TOEROEK
ASSOCIATES, INC.

Bonita Peak Mining District Site

Site Research Summary for
Aspen Mine

October 9, 2020

I. Introduction

On June 29, 2016, Toeroek Associates, Inc. (Toeroek) received Task Order (TO) No. 8001 from the U.S. Environmental Protection Agency (EPA), Region 8, under Superfund Enforcement Support Services Contract EP-S9-16-01. Among several priority tasks required by this TO, Toeroek was tasked to deliver abbreviated potentially responsible party (PRP) search letter reports for mining facilities within the Bonita Peak Mining District Site (Site), located in San Juan County, Colorado.

Historical mining and milling activities occurring in and around the Site have contributed to a disposal of acid rock drainage into the Animas River, which is a tributary to the San Juan River and ultimately the Colorado River.

(b) (5), (b) (7)(A)

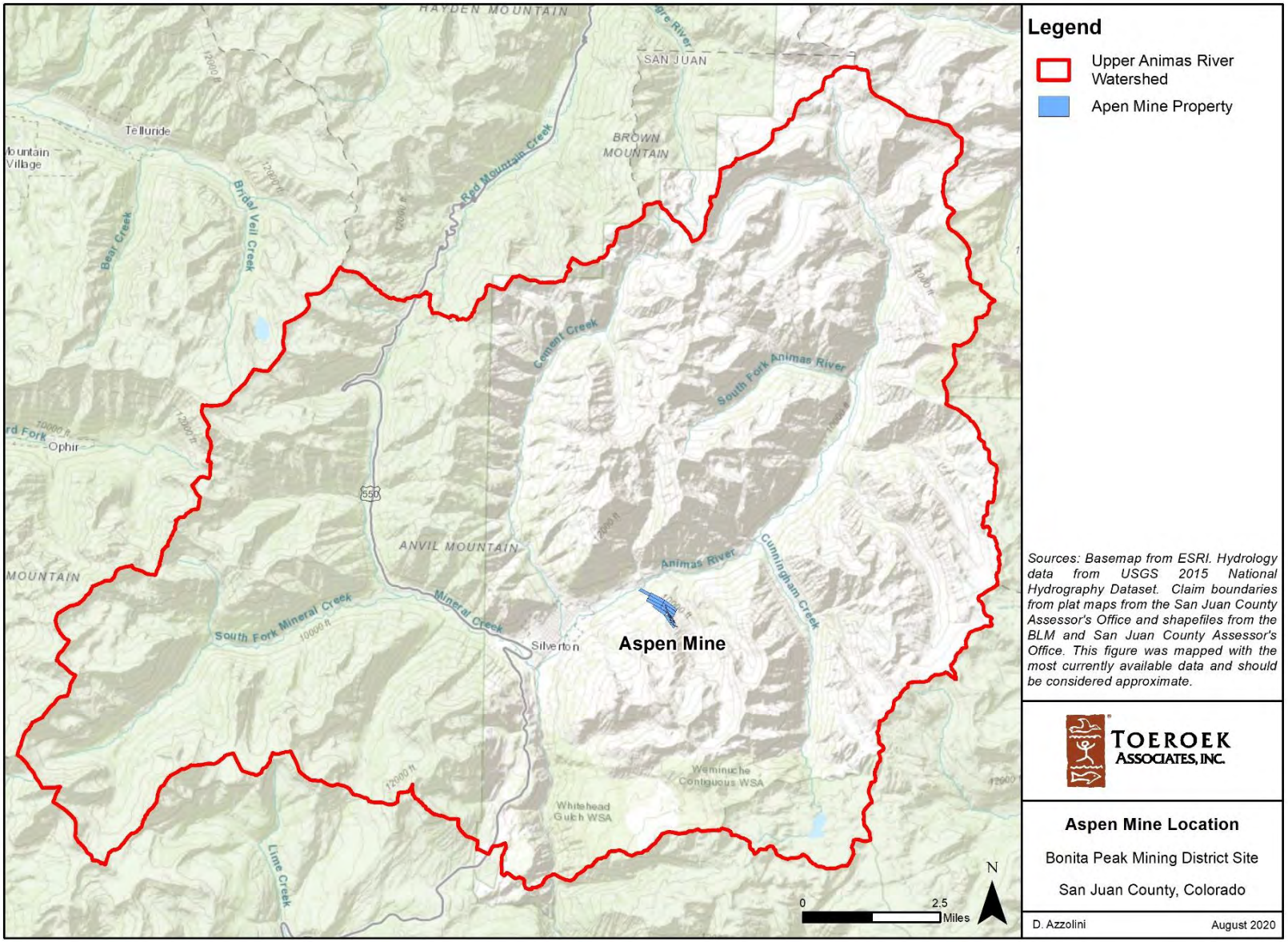

Figure 1: Aspen Mine Location Map

II. Methodology and Format

CERCLA Section 107(a) imposes liability (1) on current owners or operators of a facility where hazardous substances have been deposited, and (2) on any person or entity who at the time of disposal of hazardous substances owned or operated a facility where hazardous substances were deposited. Sources of information for the abbreviated PRP search investigations are limited to publically available operational records and online current ownership records obtained from the San Juan County Assessor's Office as the scope of this TO did not include a formal chain of title search.

The PRPs discussed in this report were identified through the review of records obtained from, but not limited to, the following sources: Colorado Bureau of Mines (CBM) annual publications and operator reports; United States Geological Survey (USGS) published reports and bulletins; various university and public historical record databases; and online records obtained from the San Juan County Assessor's Office.

Toeroek reviewed the data sources described in Table 1 for the purpose of identifying the ownership and operational history of the facility. Toeroek conducted a data review to determine: 1) a general facility history that includes location, operations, and hazardous waste contamination; 2) patented mining claims associated with the facility; 3) information regarding past and current ownership; 4) and PRPs associated with the mining facility.

Table 1: Data Sources Reviewed

Abbreviation	Data Source	Record Description
CBM	Colorado Bureau of Mines	Published annual reports by the CBM and inspection reports conducted by agency geologists and/or facility operators obtained from the Colorado State Archives.
CDPHE	Colorado Department of Public Health and Environment	Online records from the agency database of the Colorado Department of Public Health and Environment.
DESOS	Delaware Secretary of State	Online records obtained through Delaware Secretary of State Division of Corporations searches.
EPA	United States Environmental Protection Agency	Records obtained from the EPA.
GDOC	Google Historical Online Databases	Historical published documents that are stored within Google Books, Google Scholar, and Google News Archive.
GLO	General Land Office	Records obtained from the U. S. Bureau of Land Management (BLM) General Land Office (GLO) website.

Abbreviation	Data Source	Record Description
ILSOS	Illinois Secretary of State	Online records obtained through Illinois Secretary of State searches.
INT	Internet	Documents and photographs obtained through general internet searches.
NEWS	Colorado Historical Newspaper Collection	Historical Colorado newspaper articles published prior to 1922.
NEXIS	Nexis®	Public corporate and individual records obtained from the Nexis® Public Records Database.
NJSOS	New Jersey Secretary of State	Online records obtained through New Jersey Department of Revenue and Enterprise Services searches.
SCA	San Juan County Assessor's Office	Online property records obtained from the San Juan County Assessor's Office.
SDMS	Superfund Management Document System	Records obtained from the EPA Superfund Document Management System.
SJCHS	San Juan County Historical Society	Record obtained from San Juan County Historical Society's Map Collection.
TITLE	San Juan County Clerk and Recorder's Office	Property records obtained through the San Juan County Clerk and Recorder's Office.
USGS	United States Geological Survey	Records obtained from the USGS library located in Denver, Colorado and from publications stored on its online publications warehouse repository.
WLAW	Westlaw	Public corporate and individual records obtained from the Westlaw® Public Records Database.

References to the numbered evidentiary documents within this report are made by a document number in parentheses following the sentence(s) to which the reference applies. The document number generally consists of a letter prefix followed by a number. The prefix abbreviation indicates the general source of the document and the numbers are sequential.

III. Research Findings: Aspen Mine

A. Facility Description

San Juan County is in southwestern Colorado, encompassing approximately 388 square miles (SCA-00171). Cycles of geological uplift, subsidence, and glaciation contribute to the rugged terrain of the county, which lies entirely in the San Juan Mountains. Several streams originate in basins between principal mountain peaks and descend into the Animas River valley, a distinct drainage path. The Animas River flows south-southwest for several miles through the valley

from the town of Animas Forks to the town of Silverton. The Animas River flows out of the valley and converges with Mineral Creek just south of Silverton (INT-00063).

The Aspen mine is located south of the Animas River on the slopes of Kendall Mountain. It is situated at Latitude N37° 49'16.2", Longitude W107° 37'49.8". According to a Reclamation Feasibility Report (RFR) produced by the Colorado Division of Minerals and Geology in 2000, the facility includes draining adits and a 20,000-cubic-yard waste rock pile.[1] The lowest working adit of the mine, known as the Amy tunnel, is located at an elevation of approximately 9,760 feet (SDMS-1261223, p. 141). The Aspen mine consists of approximately 5,000 feet of underground workings that include shafts, tunnels, drifts, winzes, raises, and stopes (USGS-00098, p. 13).

Based on collected historical maps and operational records, the facility is delineated by the following patented mining claims that contain interconnected underground mine workings and waste rock piles associated with the Aspen mine: Aspen, Chloride, Mammoth, McGregor, Susquehanna, Legal Tender, Washington, Silver Star, River, San Juan, New York, La Boca, and Hermosa mining claims (herein referred to as the "Aspen Group").

Table 2 provides information about the names and locations of the facility's underground workings, which is based on a map provided by the San Juan County Historical Society (SJCHS-00009). The map depicts underground workings of the Aspen Group, and was originally drawn to accompany a July 1907 report submitted to the CBM. Due to the map's large size, Toeroek split the image into two separate figures: Figure 2 is a plan view image of the Aspen Group, which shows mining features that were accessed through surface openings (i.e., adits and shafts); and Figure 3 contains a crosscut map of underground workings that include mining levels and raises not accessed directly through a surface opening. Both figures include feature identification numbers ("Feature ID") that correspond to the underground workings described in the table below. Feature ID Nos. 1 through 8 are shown on Figure 2, and Feature ID Nos. 9 through 10 are shown on Figure 3.

Table 2: Facility Feature Descriptions

Feature ID	Underground Workings
1	River Lode tunnel (1,300-foot Level)
2	Amy tunnel (1,100-foot Level)
3	Legal Tender tunnel
4	Johnny Bull tunnel (600-foot Level)
5	Eclipse tunnel (400-foot Level)
6	Old Main Level (400-foot Level), aka Ingersoll tunnel
7	Aspen Shaft
8	350-foot Level

[1] As of March 2006, the Colorado Division of Minerals and Geology changed its name to the Colorado Division of Reclamation, Mining and Safety.

Feature ID	Underground Workings
9	200-foot Level
10	300-foot Level
11	Interim Level (500-foot Level)
12	2nd Interim Level
13	1st Interim Level

(SJCHS-00009)

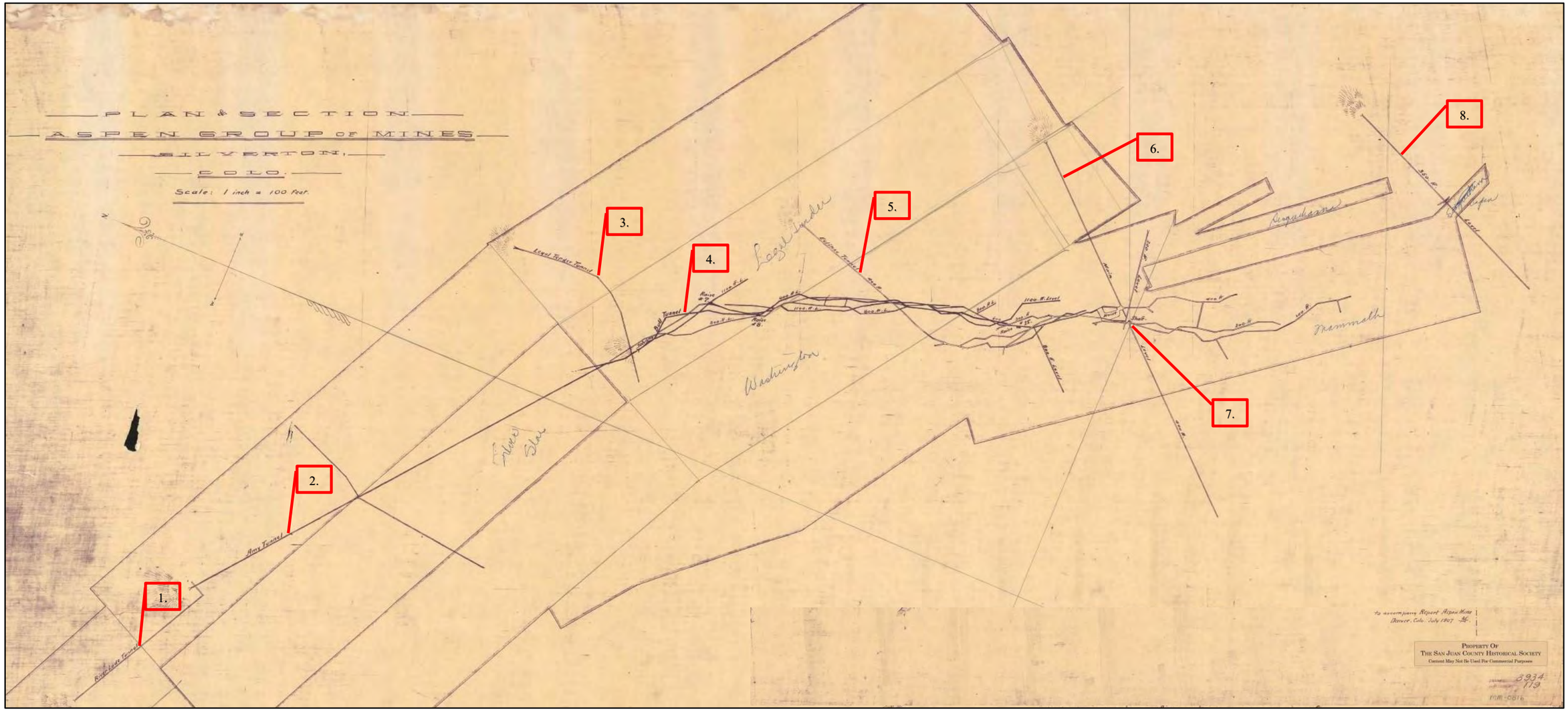

Figure 2: Plan View Map of Underground Workings of the Aspen Mine, Circa 1907 (SJCHS-00009)

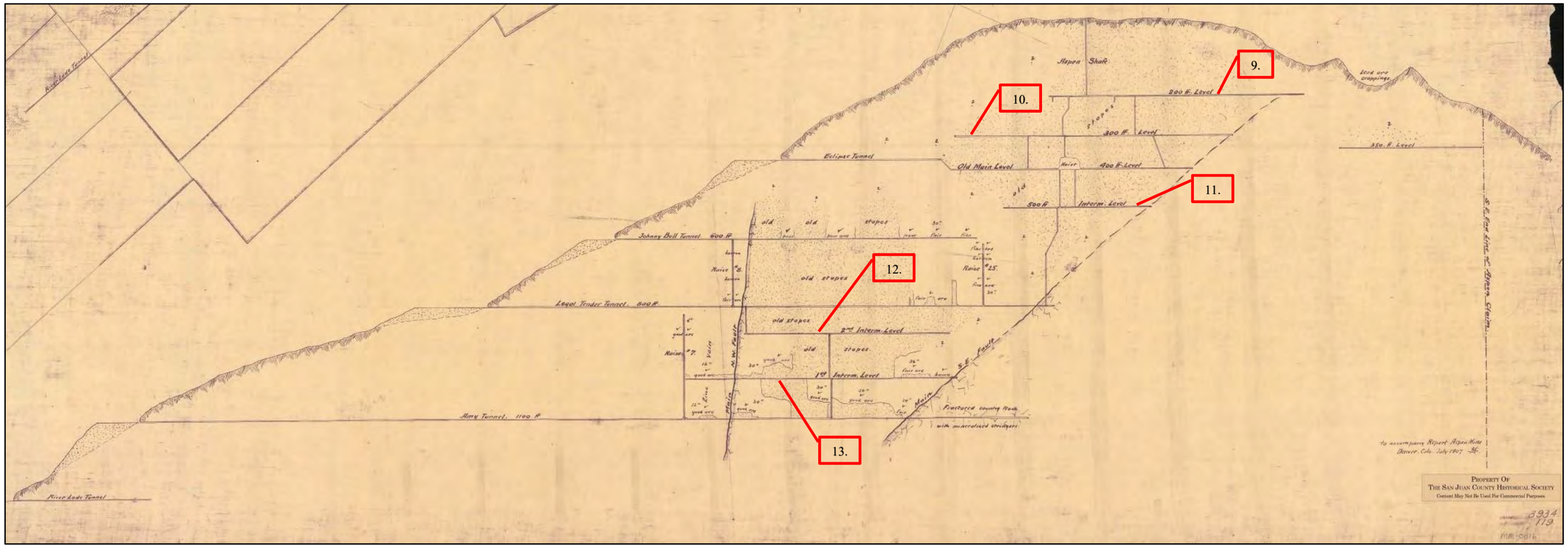

Figure 3: Crosscut Map of Underground Workings of the Aspen Mine, Circa 1907 (SJCHS-00009)

According to the RFR, the facility produces about 8 to 15 percent of the dissolved zinc discharged from known mining facilities into the Animas River below the town of Eureka. Drainage from the mine was measured at 190 to 325 gallons per minute of pH 7.0+ water. During low flow, the measured dissolved cadmium was 2.68 gallons per day, the dissolved copper was 5.15 gallons per day, the dissolved manganese was 2.06 gallons per day, and the dissolved zinc was 610.63 gallons per day. During high flow, the dissolved cadmium was 9.74 gallons per day, the dissolved copper was 33.29 gallons per day, the dissolved manganese was 25.68 gallons per day, and the dissolved zinc was 2,787.31 gallons per day (SDMS-1261223, p. 143).

The RFR notes that the Aspen mine waste rock pile contained approximately 20,000 cubic yards of yellow waste rock containing chalcopyrite, pyrite, galena, and sphalerite. Leachate results showed this waste to be high in cadmium, copper, and zinc. There is some water that flows into this pile from the slope above. Drainage from the mine flowed over the waste rock pile into a series of beaver ponds (SDMS-1261223, p. 141).

In 2017, the Colorado Department of Public Health and Environment requested and approved a Site Characterization of the "Aspen Mine and Amy Tunnel Site" that was prepared on behalf of the ASARCO Multi-State Environmental Custodial Trust. The Site Characterization was to include sampling to determine the presence of heavy metals in water and sediment at the facility. During reconnaissance for sampling locations, surface water was observed emerging from the base of an apparent landslide that was thought to have covered the Amy tunnel adit. The presumed Amy tunnel adit discharge flowed east of the Amy tunnel waste rock pile before turning northwest towards a small pond (also referred to as the upper pond). The drainage from the upper pond flowed west to an area that appeared to be another former pond (also referred to as the lower pond). Review of satellite imagery confirmed the lower pond was present from at least 1998 until October 2015 (CDPHE-00014, pp. 6-8).

Water, sediment, and waste rock samples were collected from a total of 10 facility locations on September 27, 2017. In the three water samples that were collected, concentrations of cadmium and zinc were detected above table value standards. In the three sediment samples that were collected, concentrations of aluminum, arsenic, cobalt, copper, iron, lead, manganese, thallium, and vanadium were detected above residential regional screening levels (RSLs) with arsenic and lead detected above industrial RSLs. In the four waste rock samples, concentrations of aluminum, antimony, arsenic, cadmium, cobalt, copper, iron, lead, manganese, silver, thallium, vanadium, and zinc were detected above residential RSLs while and arsenic, lead, manganese, and thallium were detected above industrial RSLs (CDPHE-00014, pp. 8, 15). Figure 4 is a map of the Site Characterization sampling locations.

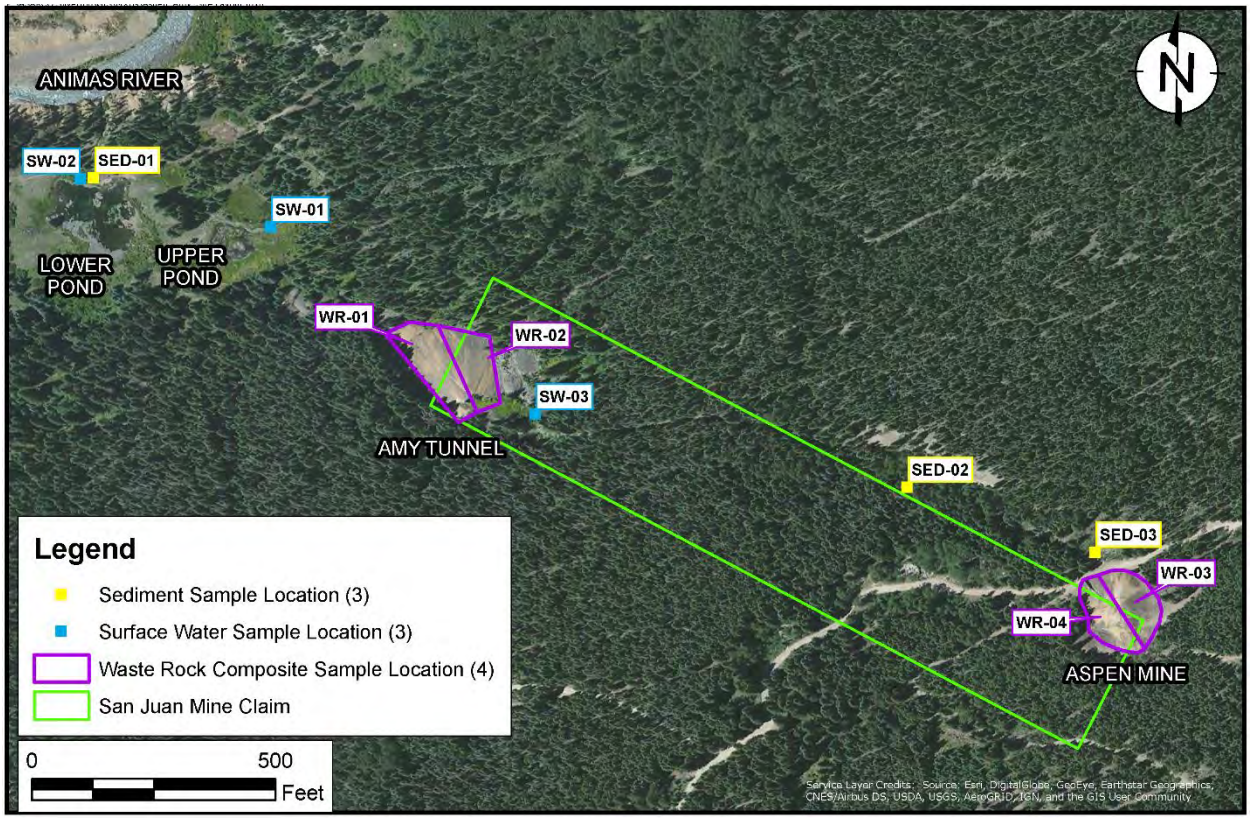

Figure 4: Aspen Mine Site Characterization Sampling Locations, July 2017 (CDPHE-00014, p. 28)

B. Current Owners

Toeroek obtained current ownership information for the patented facility mining claims of the Aspen mine through San Juan County Assessor online records. The names and locations of the facility claims were discovered through historical operational records that include CBM annual publications and operator reports, USGS published reports and bulletins, and various university and public historical record databases.

Table 3 lists the properties and current owner information associated with the facility mining claims. Figure 5 is a Current Owners Map that shows the approximate location of the facility properties and the current owners.

Table 3: Current Owner Information

Mining Claim Name/ Mineral Survey (M.S.) No.	Parcel No.	Current Owner	Current Address	Source
Aspen – 199 Chloride – 411 Mammoth – 449 McGregor – 423 Susquehanna – 447	48290150010017	(b) (6)	(b) (6)	SCA-00457; WLAW-00031; TITLE-00114
Legal Tender – 753 Washington – 15112	48290150010001	BLM	2850 Youngfield St. Lakewood, CO 80215	SCA-00458; TITLE-00110; INT-00088, p. 4
Silver Star – 681	48290100010010	BLM	2850 Youngfield St. Lakewood, CO 80215	SCA-00459; TITLE-00110; INT-00088, p. 4
River – 15112	48290090010035	(b) (6) Defined Benefit Trust	(b) (6)	SCA-00460; TITLE-00106
San Juan – 15112	48290100010004	ASARCO Multi-State Custodial Trust	35 E. Wacker Dr. Chicago, IL 60601	SCA-00461; TITLE-00111
New York – 15112	48290100010044	(b) (6)	(b) (6)	SCA-00462; WLAW-00027; TITLE-00112
La Boca – 19479	48290100010049	(b) (6)	(b) (6)	SCA-00463; WLAW-00029; WLAW-00030; TITLE-00117
Hermosa – 19974	48290150010014	(b) (6)	(b) (6)	SCA-00464; WLAW-00032; WLAW-00034; TITLE-00116

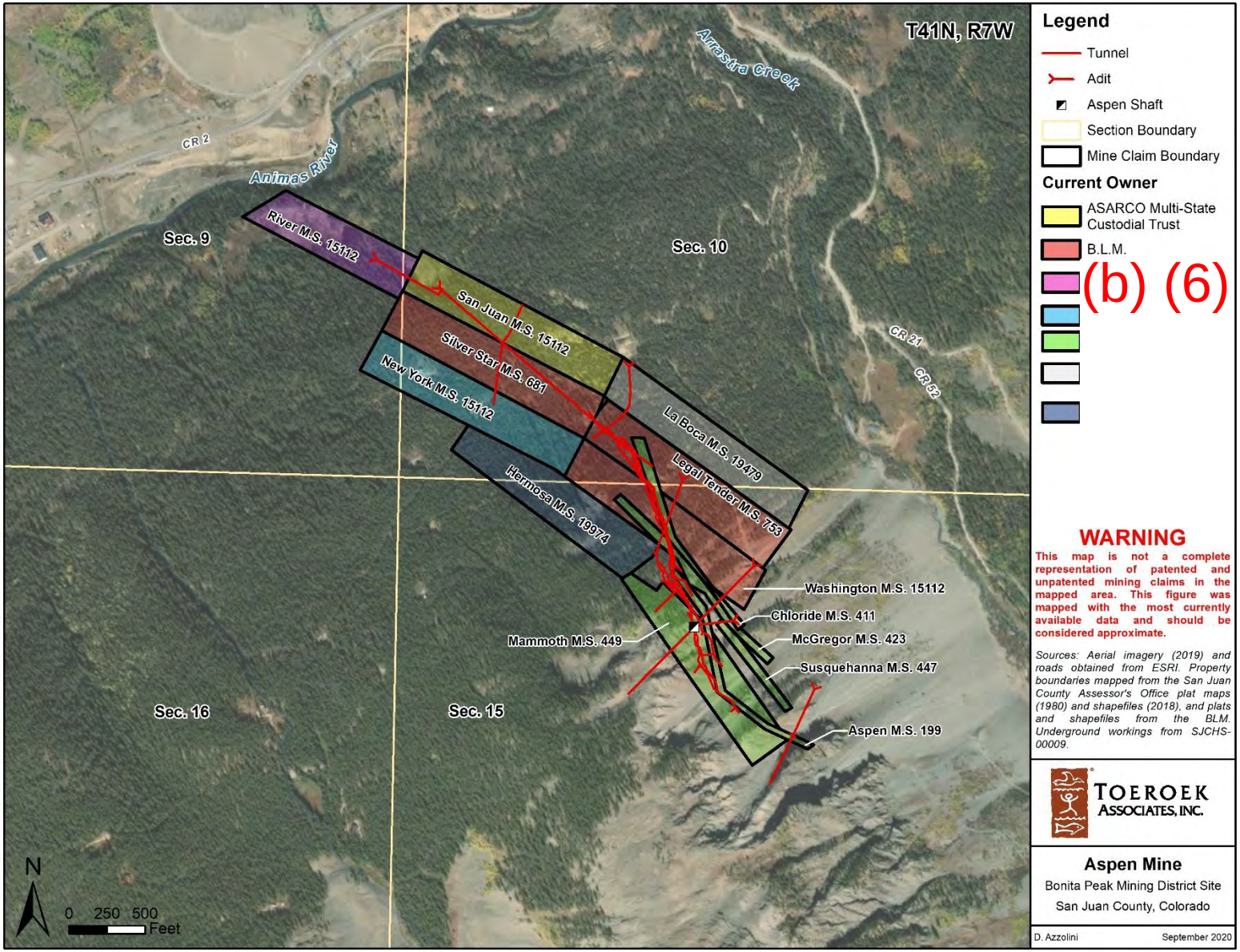

Figure 5: Aspen Mine Current Owners Map

C. Operations

Based on available documentation, mining began on the Aspen, Prospector, Susquehanna, Mammoth, and "neighboring" mining claims sometime between 1872 and 1874 (CBM-00609; USGS-00098, pp. 5, 12).[2] An 1878 publication entitled *The New Rocky Mountain Tourist Arkansas Valley and San Juan* describes early developments at the Aspen mine:

> In the Hazelton district, first we find the *Aspen*, producing about four tons of ore per day, with a profit of $2,000 per month, the mine being worked the year round. The *Ingersoll* tunnel, projected for development, is now in 900 feet, and at 500 feet cut a blind lode with 18 to 30 inch vein of galena, gray copper, and sulphurets, that is very rich; out-put about two tons per day. The *Susquehanna* is cut by the Ingersoll tunnel at 700 feet below the surface, and is also worked from the surface to a depth of 100 feet; ore similar to others heretofore described. *Mammoth*, within a thousand feet of the Susquehanna, is worked through a cross-cut tunnel that strikes the vein at 150 feet. The Ingersoll, Susquehanna and Mammoth are all owned by the same parties – Ingersoll, Higgins & Watson. The *J. L. D.* tunnel is being run to cut the same group of veins at another point, and is in 400 feet. It is expected to cut the *Legal Tender*, which, as does the tunnel, belongs to the Greene Company… (INT-00086, pp. 56-57).[3]

On March 27, 1880, *Engineering and Mining Journal* reported that Greene & Co. had recently agreed to sell its mines on Hazelton Mountain, among other properties, to W. J. Palmer, President of the Denver & Rio Grande Railway, and a syndicate of Eastern capitalists with an interest in the Denver & Rio Grande Railway. Among the properties sold in the deal were: Aspen [lode claim], Susquehanna [lode claim], Susquehanna tunnel, Mammoth [lode claim], and J. L. P. tunnel.[4] It was reportedly the intention of the "new company" to prepare the mines for maximized ore production (GDOC-00057).

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[2] The Prospector lode mining claim was surveyed on August 19, 1880 (Survey No. 421), but no record of a mineral patent was found through a search of GLO online records. Additionally, a property search through online San Juan County Assessor records did not show a mining claim with the name "Prospector," and mapping data provided by the San Juan County Assessor does not show the delineation of Prospector Survey No. 421. As shown in the Mammoth mineral survey, both the Prospector and Pathfinder mining claims comprise underground workings near the Mammoth and Hermosa mining claims (*also see Figures 2 and 5 for the location of patented facility mining claims*), but neither claim was found to have been patented by the United States (GLO-00039, GLO-00040, GLO-00041).

[3] The "J. L D. tunnel" is likely a typographical error of J. L. P. tunnel. Other historical sources refer only to the "J. L. P. tunnel" (GDOC-00057; NEWS-00200, p. 2). "The Greene Company" is likely a typographical error or name variation of Greene & Co. (see GDOC-00057).

[4] In its article, *Engineering and Mining Journal* provides the "list of the property sold" at the facility. It is presumed that the mention of Aspen, Susquehanna, and Mammoth is a reference to the respective lode claims. The locations of the Susquehanna tunnel and J. L. P. tunnel are unknown based on available documentation.

In August 1880, *Engineering and Mining Journal* reported that San Juan & New York Mining and Smelting Company owned the "Hazelton group of mines." According to the article, "Denver & Rio Grande railway men" were the majority of trustees for the Hazelton group of mines. The article reported on the developments of the Aspen mine:

> The Aspen mine… has been the largest silver producer in the San Juan. The new company starts out well, having $150,000 of working capital; and the early completion of the railway to an accessible point, and the fact the mines are in a proprietary position to receive special favors, the cost of reducing ores will be reduced from an exorbitant rate to about $24 per ton, the old price having been about $50. The yield of the Aspen – the oldest mine in the district – up to 1880 has been $178,558. One thousand feet of levels, shafts, and tunnels, and 1768 fathoms of ground had been excavated, with an average value or return of $60 per fathom, up to the autumn of 1878. The vein is about four feet wide, having a pay-streak of two to eight inches. This company owns also the Mammoth, McGregor, Victor, Legal Tender, and the Ingersoll and J. L. P. tunnels, which intersect. It has about 4000 feet of development. The veins dip under the summit of the mountain. A large room is clearing for a steam-engine at a point 800 feet from the surface of the Ingersoll tunnel. A new tunnel is starting on a level with the Ingersoll (GDOC-00058, p. 2).

A 1901 USGS Bulletin of mineral resources in the United States provides limited information about early operations at the Aspen mine. Initial developments were concentrated on the Aspen, Susquehanna, Mammoth, Legal Tender, and McGregor mining claims.[5] By 1882, these mining claims contained over 5,000 feet of workings. In 1882, the mine's operator contracted to furnish Sweet & Co. in Silverton with 3,000 tons of ore, which were crushed, sampled, and sent to the new smelter in Durango, Colorado (USGS-00098, pp 12-13).

In January 1890, *Silverton Standard* reported that lessees Tom Colmer and Frank Robbins were mining on each end of the J. L. P. tunnel, and they had started a shaft (NEWS-00200, p. 2). No information was found regarding operations between 1891 and 1896. On May 15, 1897, *Silverton Standard* reported that Kearney Bros. was transporting ore by burro from the Aspen mine daily. The property was projected to ship a car of high grade lead per day (NEWS-00201, p. 1). By May 14, 1898, the mine was reportedly producing six to eight carloads of high-grade pay mineral per month. The ore was being treated at the Durango smelter (NEWS-00199, p. 1). By 1899, the Aspen mine was idle. In 1900, some rehabilitation and retimbering were conducted in the Amy tunnel (USGS-00098, p. 13).

Based on available documentation, operations at the Aspen mine had resumed by 1906 (USGS-00097, p. 43; USGS-00002, p. 3). In 1906 *Mineral Resources* reported that "higher grade" ore

[5] The source also mentions the Matchless mining claim. Toeroek found no evidence to suggest that the Matchless claim currently exists and no evidence that it was the former name for one of the facility mining claims.

from the Aspen mine was to be sent to the Durango smelter (USGS-00002, p. 3). Ore production continued at the Aspen mine from 1907 to 1914 (USGS-00003, p. 2; USGS-00004, p. 3; USGS-00005, p. 4; USGS-00006, p. 3; USGS-00007, p. 7; USGS-00008, p. 4; USGS-00009, p. 4; USGS-00010, p. 4).

In 1916, the partnership of "Johnson & Anderson" submitted a CBM operator's report for Aspen mine.[6] According to Johnson and Anderson, the mine property consisted of 11 patented mining claims and 2 unpatented mining claims, all leased from American Smelting and Refining Company. The lease included three bunkhouses, a boarding house, an office, a tram and crusher house, and an aerial tramway. Johnson and Anderson reported that the Aspen property also had a 150-ton concentrating mill, although the mill was not included in the lease. Johnson and Anderson reportedly sold 1,098.108 tons of crude ore containing 0.168 ounces of gold, 11.22 ounces of silver, 10.46 percent lead, 2.14 percent copper, and 6.88 percent zinc in 1916. Developments totaled 300 feet of shafts, 600 feet of winzes, 3,800 feet of drifts, and 1,500 feet of crosscuts (CBM-00620).

In 1917, American Smelting and Refining Company reported to CBM as the operator of the Aspen mine. American Smelting and Refining Company stated that it owned the Hermosa unpatented mining claim and the following 12 patented mining claims: River, Piedmont, San Juan, New York, Legal Tender, Washington, Chloride, McGregor, Susquehanna, Mammoth, Aspen, and La Boca. The company stated that it sold 682 tons of crude ore containing 0.202 ounces of gold, 15.65 ounces of silver, 9 percent lead, and 2.26 percent copper (CBM-00619).

No CBM reports were found for Aspen mine for the years 1918 to 1924. In 1925, American Smelting and Refining Company reported that it owned the mine and was leasing it to P. Antonelli. In total, 68 tons of ore were produced and sold that year (CBM-00618). A CBM operator report for 1926 shows that American Smelting and Refining Company leased the Aspen mine to Cina Brothers & Hinkley and Frank Andreatta, who reportedly sold a total of 131 tons of ore that year (CBM-00617).[7] American Smelting and Refining Company reported to CBM that it also leased the Aspen mine to A. E. Dalla in 1926. This lease reportedly produced 23 tons of crude ore containing 31 percent silver and 21 percent lead (CBM-00615).

In 1927, work continued under Cina Brothers & Hinkley (CBM-00610). According to the CBM operator's report submitted by Cina Brothers & Hinkley, 153 tons of ore were extracted from the Legal Tender mining claim in 1927 (CBM-00616). From January 1 to June 1, 1928, Cina Brothers & Hinkley operated the mine. Martin Cina took over operations from June 1 to December 31, 1928. Crude ore production totaled 131 tons that year containing 41 percent silver

[6] It is unclear if the partnership was an entity registered to conduct business in Colorado or if it was an informal working relationship between Johnson and Anderson.

[7] CBM operator and inspector reports refer to this entity as the "Cina Bros. & Hinkley," "Cina Brothers & Hinkley," and "Hinckley and Company." This report refers to them as Cina Brothers & Hinkley, as this name is that which the entity calls itself on CBM operator reports.

and 18 percent lead (CBM-00690; CBM-00614). A CBM inspector's report, dated July 18, 1928, describes developments at the mine:

> The property is developed by crosscuts drifts driven on the veins, stopes and upraises. There are levels Nos. 1, 2, 3 and 4. At present all work is being done in No. 2 level. They drove a crosscut to the southeast about 400 feet from the portal, where the vein was intersected, and they drifted to the southeast about 200 feet on the vein. At that point a stope was taken out 15 feet in height and 40 feet in length. The ore is a sulphide. The mine has been operated since 1872, and has produced millions of dollars in gold, silver and lead (CBM-00609).

The inspector's report also noted that the property had old buildings that were in use and a mill that had been inoperable for several years (CBM-00609).

In the CBM *Annual Report for the Year 1928*, it was reported that Martin Cina produced two car loads of ore during operations in the summer months (CBM-00191, p. 2). Martin Cina continued to lease the mine from American Smelting and Refining Company in 1929, producing 21 tons of ore that year (CBM-00613).

No information was found regarding operations at Aspen mine from 1930 to 1934. In 1935 and 1937 American Smelting and Refining Company reported to CBM that it still owned the mine. According to American Smelting and Refining Company's operator reports, no operations occurred at the mine in 1935 and 1937 (CBM-00612; CBM-00611). No further information was found regarding operations at the Aspen mine.

According to a 1963 USGS publication, the mine had been idle for years, and most of the adits were caved. Figure 6 is a photograph of Arrastra Gulch from the 1963 publication. The photograph was taken from the north side of the Animas Valley. The Aspen mine dumps, circled in yellow, are visible in the timber in the foreground (USGS-00097, pp. 50, 51).

Figure 6: Arrastra Gulch from the North Side of the Animas Valley (USGS-00097, p. 51)

D. Potentially Responsible Parties (PRPs)

Information on corporate and individual PRPs is summarized below in Table 4. The table lists both past and current corporate and individual owners / operators in chronological order based on their period of association with the facility. Toeroek has assumed, for purposes of this report, that any individuals associated with the property prior to 1955 are deceased. For those individuals associated with the Site after 1955, Westlaw public records searches were conducted to verify current residences. The addresses of these individuals, when available, are provided in the table. Following Table 4 are corporate history narratives for all facility past and current corporate operators and owners.

Table 4: PRP Summary Table for Aspen Mine

PRP	Association to Facility	Known Year(s) of Activity	Status	Source
Ingersoll, Higgins & Watson	Past Operator	1878	Unknown	INT-00086
Greene & Co.	Past Owner/ Operator	1878 – 1880	Unknown	INT-00086; GDOC-00057
W. J. Palmer	Past Owner	1880	Presumed Deceased	GDOC-00057

PRP	Association to Facility	Known Year(s) of Activity	Status	Source
San Juan & New York Mining and Smelting Company	Past Owner/ Operator	1880	Unknown	GDOC-00058
Tom Colmer	Past Operator	1890	Presumed Deceased	NEWS-00200
Frank Robbins	Past Operator	1890	Presumed Deceased	NEWS-00200
Kearney Bros.	Past Operator	1897	Unknown	NEWS-00201
Johnson & Anderson, a partnership	Past Operator	1916	Unknown	CBM-00620
ASARCO LLC (Successor to ASARCO Incorporated and American Smelting and Refining Company)	Past Owner/ Operator	1916 – 2009	Active	CBM-000690; CBM-00620; CBM-00619; CBM-00618; CBM-00615; CBM-00614; CBM-00613; CBM-00612; CBM-00611; SCA-00457; SCA-00458; SCA-00459; SCA-00460; SCA-00461; SCA-00462; SCA-00463; SCA-00464; DESOS-00037 TITLE-00106; TITLE-00107; TITLE-00108; TITLE-00110; TITLE-00111; TITLE-00116; TITLE-00117
P. Antonelli	Past Operator	1925	Presumed Deceased	CBM-00618
Cina Brothers & Hinkley	Past Operator	1926 – 1928	Unknown	CBM-00617; CBM-00610; CBM-00616;CBM-00614
Frank Andreatta	Past Operator	1926	Presumed Deceased	CBM-00617
A. E. Dalla	Past Operator	1926	Presumed Deceased	CBM-00615
Martin Cina	Past Operator	1928	Presumed Deceased	CBM-00690;CBM-00191; CBM-00613; CBM-00614
United States of America, Bureau of Land Management	Current Owner	2004 – Present	2850 Youngfield St. Lakewood, CO 80215	SCA-00458; SCA-00459; TITLE-00110; INT-00088, p. 4
(b) (6) **Defined Benefit Trust Plan**	Current Owner	2004 – Present	Unknown	SCA-00460; TITLE-00106

PRP	Association to Facility	Known Year(s) of Activity	Status	Source
(b) (6)	Current Owner	2004 – Present	(b) (6)	SCA-00457; SCA-00463; TITLE-00108; TITLE-00114; WLAW-00030, p. 2; TITLE-00117
(b) (6)	Current Owner	2004 – Present	(b) (6)	SCA-00457; SCA-00463; TITLE-00108; TITLE-00114; WLAW-00029; TITLE-00117
(b) (6)	Current Owner	2004 – Present	(b) (6)	SCA-00464; WLAW-00032; TITLE-00116
(b) (6)	Current Owner	2004 – Present	(b) (6)	SCA-00464; WLAW-00034; TITLE-00116
(b) (6)	Past Owner	2004	(b) (6)	SCA-00462; TITLE-00107; TITLE-00109; WLAW-00033
(b) (6)	Past Owner	2004	(b) (6)	SCA-00462; TITLE-00107; TITLE-00109; WLAW-00026
(b) (6)	Past Owner	2004 – 2014	(b) (6)	SCA-00462; TITLE-00109; TITLE-00112; WLAW-00028
(b) (6)	Current Owner	2004 – Present	(b) (6)	SCA-00462; TITLE-00109; TITLE-00112; WLAW-00027
ASARCO Multi-State Custodial Trust	Current Owner	2009 – Present	Active	SCA-00461; TITLE-00111
(b) (6)	Current Owner	2017 – Present	(b) (6)	SCA-00457; WLAW-00031; TITLE-00114
* Indicates past ownership based on San Juan County Assessor online records - Current Owners represented in bold text				

The following past and current corporate operators and owners were identified through operational research and San Juan County Assessor online records. Corporate research with the Colorado Secretary of State was conducted for all companies listed in the PRP Summary Table. For many of these parties, it is unclear whether these PRPs are legal entities (i.e., a corporation) based on how they are referenced in historical documentation. Corporate records for companies found to be dissolved or declared defunct prior to 1975 may require microfilm searches at the Colorado State Archives. Party information is also provided in chronological order based on their

period of association, first addressing the past corporate operators and owners followed by the current owners. No current operator was identified through this investigation.

1. Past Corporate PRPs

PRP:	**INGERSOLL, HIGGINS & WATSON**
PRP Class:	Past Operator
Status:	Unknown
Current Address:	n/a
State of Formation:	Unknown
Period of Activity:	1878

The Colorado Secretary of State website does not contain corporate information for a company called "Ingersoll, Higgins & Watson."

Further research at the Colorado State Archives is required to determine the PRP's corporate status.

PRP:	**GREENE & CO.**
PRP Class:	Past Owner / Operator
Status:	Unknown
Current Address:	n/a
State of Formation:	Unknown
Period of Activity:	1878 – 1880

The Colorado Secretary of State website does not contain corporate information for a company called "Greene & Co."

Further research at the Colorado State Archives is required to determine the PRP's corporate status.

PRP:	**SAN JUAN & NEW YORK MINING AND SMELTING COMPANY**
PRP Class:	Past Owner / Operator
Status:	Unknown
Current Address:	n/a
State of Formation:	Unknown
Period of Activity:	1880

The Colorado Secretary of State website does not contain corporate information for a company called "San Juan & New York Mining and Smelting Company."

According to a 1911 publication of *Obsolete American Securities and Corporations*, the stock of San Juan & New York Mining and Smelting Company was considered "worthless." The company held an office in New York, New York. The year 1881 was provided in company's listed information, however, it is uncertain whether this is an incorporation date or the date of its securities assessment (GDOC-00060, p. 7). It is noted, however, that this company owned and operated the mine one year earlier in 1880 (GDOC-00058). The New York Secretary of State website does not contain corporate information for a company called "San Juan & New York Mining and Smelting Company."

Further research at the Colorado State Archives is required to determine the PRP's corporate status.

PRP:	**KEARNEY BROS.**
PRP Class:	Past Operator
Status:	Unknown
Current Address:	n/a
State of Formation:	Unknown
Period of Activity:	1897

The Colorado Secretary of State website does not contain corporate information for a company called "Kearney Bros."

Further research at the Colorado State Archives is required to determine the PRP's corporate status.

PRP:	**JOHNSON & ANDERSON**
PRP Class:	Past Operator
Status:	Unknown
Current Address:	n/a
State of Formation:	Unknown
Period of Activity:	1916

The Colorado Secretary of State website does not contain corporate information for a company called "Johnson and Anderson."

Further research at the Colorado State Archives is required to determine the PRP's corporate status.

PRP:	**ASARCO LLC (Successor to ASARCO Incorporated and American Smelting and Refining Company)**
PRP Class:	Past Owner / Operator
Status:	Active
Current Address:	Manuel Ramos, Chief Operating Officer and President 5285 E. Williams Circle Suite 2000 Tucson, Arizona 85711
State of Formation:	New Jersey (currently a Delaware limited liability company)
Period of Activity:	1916 – 2009

The American Smelting and Refining Company was incorporated in New Jersey on April 4, 1899 (NJSOS-00001). On April 22, 1975, American Smelting and Refining Company changed its name to ASARCO Incorporated (NJSOS-00002).

In November 1999, Grupo México, S.A., a Mexican mining firm, purchased 32,573,446 outstanding shares of ASARCO Incorporated for US $29.75 per share in cash. This purchase represented approximately 81.5 percent of the total number of shares outstanding. Between this purchase and previous share acquisitions, Grupo México owned 91 percent of ASARCO, Incorporated. Accordingly, Grupo México was entitled to complete a merger by which ASARCO Incorporated would become a wholly owned subsidiary of Grupo México without the need of putting it to a vote of ASARCO Incorporated shareholders (INT-00090). In 2000, Grupo México established the Americas Mining Corporation (AMC) as its mining division. AMC included 100 percent of Grupo México's interest in ASARCO Incorporated (INT-00091).

On February 17, 2005, ASARCO Incorporated merged into ASARCO LLC (NJSOS-00003).

ASARCO LLC was formed in Delaware on February 4, 2005. It is active and in good standing in Delaware (DESOS-00037). The Chief Operating Officer and President of ASARCO LLC is Manuel Ramos. ASARCO LLC is located at 5285 E. Williams Circle, Suite 2000, Tucson, Arizona 85711 (INT-00089).

According to the EPA website, ASARCO LLC filed for reorganization under Chapter 11 of the Bankruptcy Code in the United States Bankruptcy Court for the Southern District of Texas, Corpus Christi Division on August 9, 2005. In March 2008 the Bankruptcy Court for the Southern District of Texas, Corpus Christi Division approved the process by which ASARCO LLC would pursue the selection of a plan sponsor and sale of its operating assets. On June 5, 2009, the United States Bankruptcy Court granted ASARCO LLC permission to set up a custodial trust settlement agreement to settle environmental claims at sites across the United States. The Custodial Trust Settlement Agreement allowed ASARCO LLC to transfer certain real property that was not being operated to a custodial trust (INT-00087; EPA-00046, p. 3-4). A Quitclaim Deed dated December 9, 2009 shows that ASARCO LLC conveyed all of its interest

in the New York, San Juan, Washington, and River mining claims to the ASARCO Multi-State Custodial Trust (TITLE-00111).[8]

PRP:	CINA BROTHERS & HINKLEY
PRP Class:	Past Operator
Status:	Unknown
Current Address:	n/a
State of Formation:	Unknown
Period of Activity:	1926 – 1928

The Colorado Secretary of State website does not contain corporate information for a company called "Cina Brothers & Hinkley."

Further research at the Colorado State Archives is required to determine the PRP's corporate status.

2. Current Owner Corporate PRPs

PRP:	(b) (6) DEFINED BENEFIT TRUST PLAN
PRP Class:	Current Owner
Status:	Unknown
Current Address:	Recommended Contact: (b) (6)
State of Formation:	n/a
Period of Activity:	2004 – Present

The Colorado Secretary of State website does not contain corporate information for an entity called "(b) (6) Defined Benefit Trust."

A Westlaw nationwide search for (b) (6) Defined Benefit Trust Plan did not yield any results. Westlaw Real Property Tax Assessor Record for San Juan Parcel No. 48290090010035 indicates

[8] Based on the title documentation collected for the these mining claims, ASARCO, LLC had already conveyed the New York, Washington, and River mining claims to various individuals before the Quitclaim Deed was executed, thus ASARCO Multi-State Custodial Trust only acquired interest in San Juan mining claim through the December 9 conveyance (see TITLE-00106; TITLE-00106; TITLE-00107; TITLE-00109).

that (b) (6) Defined Benefit Trust is a personal trust, and (b) (6) is likely the trustee or beneficiary of the trust.

An Accurint Comprehensive Report shows (b) (6)) is currently located at (b) (6) .

PRP:	ASARCO MULTI-STATE CUSTODIAL TRUST
PRP Class:	Current Owner
Status:	Active
Current Address:	ASARCO Multi-State Custodial Trust c/o Le Petomane XXV, Inc. Jay A. Steinberg, President 35 E. Wacker Drive Suite 690 Chicago, Illinois 60601
State of Formation:	n/a
Period of Activity:	2009 – Present

On June 5, 2009, the United States Bankruptcy Court granted ASARCO LLC permission to set up a custodial trust settlement agreement to settle environmental claims at facility sites across the United States. The Custodial Trust Settlement Agreement allowed ASARCO LLC to transfer certain real property that was not being operated to a custodial trust (INT-00087; EPA-00046, p. 3-4). A Quitclaim Deed dated December 9, 2009, shows that ASARCO LLC conveyed all of its interest in the New York, San Juan, Washington, and River mining claims to the ASARCO Multi-State Custodial Trust (TITLE-00111).[9]

According to the Quitclaim Deed, the Trustee of ASARCO Multi-State Custodial Trust is Le Petomane XXV, Inc. (TITLE-00111). Le Petomane XXV, Inc. is an Illinois corporation that is active and in good standing. The company President and Secretary is Jay A. Steinberg, located at 35 E. Wacker Drive, Suite 690, Chicago, Illinois 60601 (ILSOS-00001). Toeroek recommends sending correspondence regarding the ASARCO Multi-State Custodial Trust to Le Petomane XXV, Inc.

[9] Based on the title documentation collected for these mining claims, ASARCO, LLC had already conveyed the New York, Washington, and River mining claims to various individuals before the Quitclaim Deed was executed, thus ASARCO Multi-State Custodial Trust only acquired interest in San Juan mining claim through the December 9, 2009 conveyance (see TITLE-00106; TITLE-00106; TITLE-00107; TITLE-00109).

IV. Conclusions and Recommendations

The Aspen mine is located south of the Animas River on the slopes of Kendall Mountain. The facility includes draining adits and a 20,000-cubic-yard waste rock pile. The underground workings of the Aspen mine consist of thousands of feet of shafts, tunnels, drifts, winzes, raises, and stopes. Based on collected historical maps and operational records, the facility is delineated by the following patented mining claims that contain interconnected underground mine workings and waste rock piles associated with the Aspen mine: Aspen, Chloride, Mammoth, McGregor, Susquehanna, Legal Tender, Washington, Silver Star, River, San Juan, New York, La Boca, and Hermosa mining claims.

Based on available documentation, mining began on the Aspen, Prospector (unpatented), Susquehanna, Mammoth, and other nearby mining claims sometime between 1872 and 1874. In August 1880, *Engineering and Mining Journal* reported that San Juan & New York Mining and Smelting Company owned the "Hazelton group of mines." The article states the "Denver & Rio Grande railway men" were the majority of trustees for the Hazelton group of mines. According to the *Engineering and Mining Journal* feature, the Aspen mine had been the largest silver producer in the San Juan Mountains. One thousand feet of levels, shafts and tunnels of the Aspen mine had been excavated up to the autumn of 1878. These tunnels reportedly consisted of 4,000 feet of development.

Operations occurred intermittently at the Aspen mine and associated tunnels from the 1880s to 1916. In 1917, American Smelting and Refining Company reported to CBM that it owned the Aspen mine. No CBM reports were found for the mine for the years 1918 to 1924. In 1925, American Smelting and Refining Company reported to CBM that it owned the mine and was leasing it to P. Antonelli. By 1926, CBM reports show that American Smelting and Refining Company leased the Aspen mine to three parties: Cina Brothers & Hinkley, Frank Andreatta, and A. E. Dalla. American Smelting and Refining Company continued to lease the mine to Cina Brothers & Hinkley until 1928.

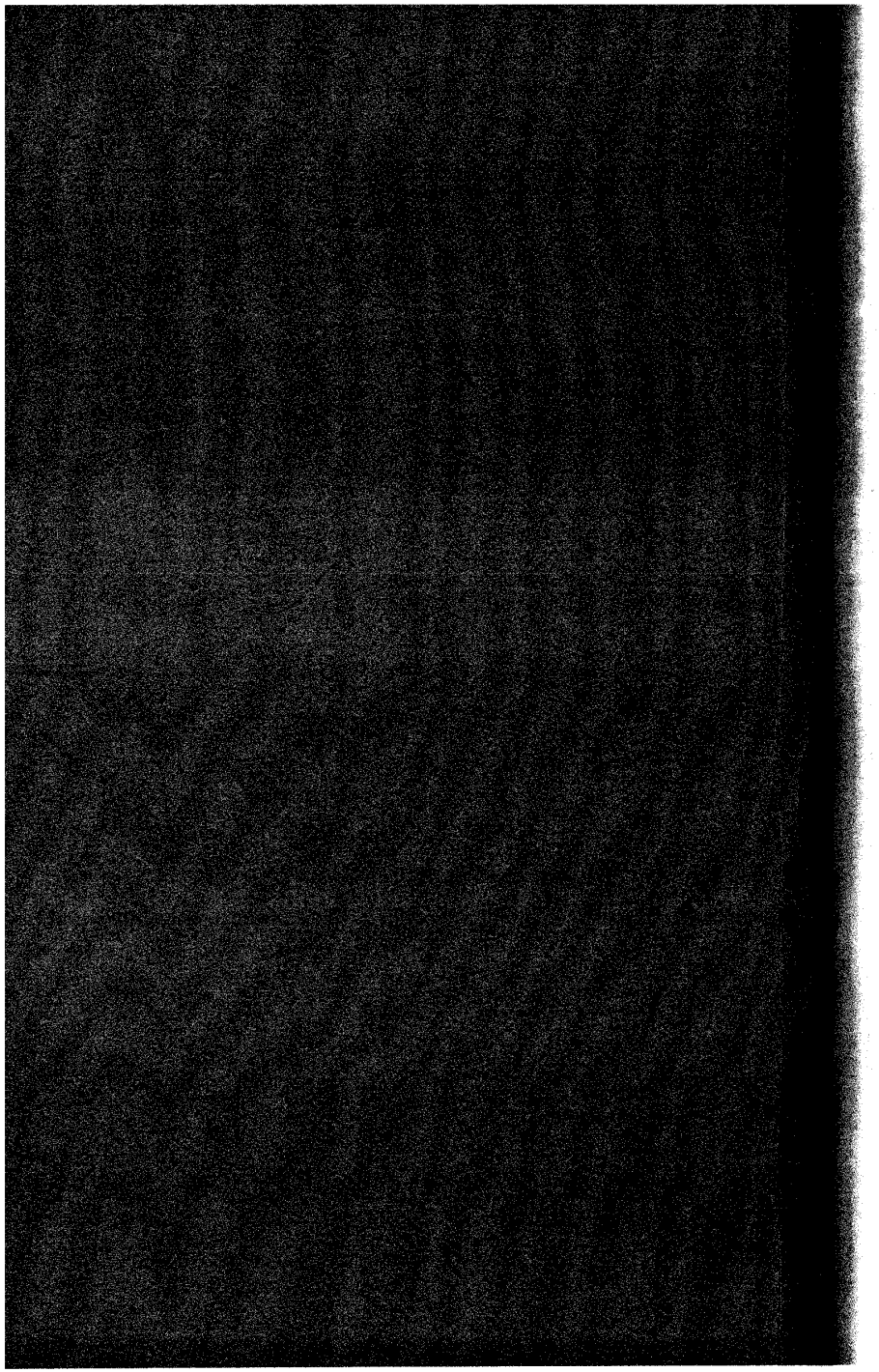
Little information was found regarding operations at Aspen mine from 1930 to 1937. Based on CBM reports, American Smelting and Refining Company continued to lease out the facility's mining claims for small operations. In 1937, the final year that American Smelting and Refining Company reported to the CBM, the company identified itself as the mine "operator." No further information was found regarding operations at the Aspen mine. According to a 1963 USGS publication, the mine had been idle for years, and most of the adits were caved.

Toeroek collected a select number of title documents for the facility's mining claims. Some of these title documents indicate that ASARCO LLC (successor by merger to ASARCO, Incorporated, fka American Smelting and Refining Company) owned the New York, San Juan, Washington, and River mining claims until 2009. ASARCO LLC filed for reorganization under Chapter 11 of the Bankruptcy Code in 2005. On June 5, 2009 the United States Bankruptcy Court granted ASARCO LLC permission to set up a custodial trust settlement agreement to settle environmental claims at sites across the United States. The Custodial Trust Settlement

Agreement allowed ASARCO LLC to transfer certain real property that was not being operated to a custodial trust. A San Juan County property card shows that the ASARCO Multi-State Custodial Trust acquired the San Juan mining claim in 2009.

Listed below are recommendations for further research:

- (b) (5), (b) (7)(A)



CBM-1928-001

STATE OF COLORADO
BUREAU OF MINES
State Capitol, Denver

JOHN T. JOYCE, Commissioner of Mines

ANNUAL REPORT FOR THE YEAR 1928

Denver, Colorado
Bradford-Robinson Printing Co.
1929

ore is from 35 to 40 tons, some of which is exceptionally high in gold and silver values. A working force of 20 men is employed at the mine and mill.

The Independent group, operated by The St. Louis Independent Smelter & Refining Co., is being developed with a working force of 16 men, and thus far the results have exceeded expectations. An expansion of operations is planned by this company for 1929.

The Guston mine is operated by The Guston Development Syndicate with a working force of eight men.

The American Nettie mine was operated by The Mutual Gold Mines Company with a working force ranging from 16 to 44 men on ore production and development, during the greater part of 1928.

Other properties upon which development work was done during the year are The Michael Breen, Lord Dunsmore, Black Hawk, Guadeloupe, Rouville and Gray Hound.

San Juan County—The Sunnyside mine, owned and operated by the Sunnyside Mining and Milling Company, is producing 1,000 tons of crude ore daily, which tonnage is treated in the company's mill at Eureka. The ore is a sulphide, with values in zinc, lead, silver, copper and gold. The lead concentrate and middling product are shipped to the smelter of the A. S. & R. Co. at Durango, and the zinc concentrate to the smelter of the U. S. Smelting and Refining Co. at Henrietta, Oklahoma. The immensity of the ore reserves already determined together with the advancement of development of additional tonnage gives assurance that the present daily output of this mine will be maintained for several years.

The Shenandoah-Dives-Mayflower mine, operated by the Shenandoah-Dives Syndicate, Charles A. Chase, Manager and Agent, has been quite extensively developed during the year. Of signal interest and importance is the opening up of ore bodies by the extension of the main operating tunnel, at a depth of 1,800 to 2,000 feet below the surface on this property. The mine has been producing about 100 tons of ore daily.

The Buffalo Boy mine is operated by the Vertex Mining Company. A force of men have been steadily employed since the early part of this year on exploration and development work. The double compartment winze has been sunk to a depth of 350 feet below the level of the main operating tunnel, on the vein, disclosing a continuous ore body of the same character, size and values as that exposed on the main tunnel level.

The Sterling-Richmond, Veta Madre and Old Hundred mines, operated by The Dresser Mining Company, are being rapidly put in shape for winter operations. An aerial tramway one mile long, extending from the operating tunnel of the Sterling-Richmond mine to the Old Hundred mill, is under construction, and tram terminals on the property are nearing completion.

The Pride of the West mine is operated by a leasing company composed of local people. A concentration-flotation mill of 100 tons daily capacity is in the course of erection and a small force is employed on development work underground.

The Little Fannie mine, operated by lessees, produced two car loads of a good grade of lead-silver ore. Some development work also was done during the year.

The Frisco mine is operated by the Sunnyside Mining and Milling Company. Prior to December 1st, this property was idle for 14 years. It is the plan of the operating company to thoroughly explore the vast area embraced by this group.

The Lackawanna Mining Company has been actively engaged in doing exploration and development work on its property during the year. Besides mine operations, a new mill of 50 tons daily capacity has been erected and equipped, and an aerial tramway extending from the mine to the railroad tracks has been reconstructed.

The Aspen mine, operated under lease by Martin Cina, produced two car loads of ore during the summer months.

Other properties upon which more or less work was performed during the present year are The Caledonian, Little Maud, Highland Mary, Joe and John, Lead Carbonate, Telescope, Sultan Tunnel and Iowa-Tiger.

The Copper Bell mine is operated by The United Operating Trust. The main operating tunnel is being extended and will be driven in its present course until reaching an objective point.

Mining operations in this county during 1928 have afforded employment to 650 men, and all signs indicate a greater increased interest and activity in the industry in 1929.

San Miguel County—The Smuggler-Union mine has been in operation 40 years, yielding a total production of upwards of $75,000,000. The Smuggler-Union Mining Company suspended operations on its properties December 1st last. The mine and mill were operated steadily for the preceding 11 months of this year. Negotiations are now pending for acquisition of property and other adjacent mines by a strong financial mining company.

The Carbonero mine and mill are operated by Girardi and Anderson. The mine has been producing about 50 tons of a milling grade ore daily, and about 100 tons of a higher grade of ore monthly.

The Butterfly Consolidated Mines Company has had a good sized force of men employed during the year cleaning out and retimbering the numerous underground workings and making surface improvements on the property.

Other properties operated on a smaller scale during the year include the Nevada, Shoemaker, Silver Bell and Alta Mines.

CBM-1928-002

OPERATING MINES IN SAGUACHE COUNTY, 1928

Name	Location	Operator	Address	Character of Product
Bonanza (a) (m)	Bonanza	St. Louis Smelting and Refining Co.	722 Chestnut St., St. Louis, Mo.	Lead, Zinc (c)
Esperanza	Del Norte	George W. Altman	Sherman Hotel, Salida	Manganese, Gold, Silver (c)
Express Headlight (a)	Villa Grove	George W. Altman	Sherman Hotel, Salida	Manganese (c)
Klondyke (a)	Saguache	Walter and James Slane	Saguache	Silver (c)
Orient	Villa Grove	Colorado Fuel and Iron Co.	Boston Bldg., Denver	Iron, Manganese
Pershing	Villa Grove	Texas-Colorado Mining Co.	Electra, Texas	Manganese
Rawley (m)	Bonanza	Rawley Mines, Inc.	120 Broadway, New York City	Gold, Silver, Lead, Copper, Zinc

OPERATING MINES IN SAN JUAN COUNTY, 1928

Name	Location	Operator	Address	Character of Product
Aspen	Silverton	American Smelting and Refining Co.	120 Broadway, New York City	Gold, Silver, Lead, Zinc
Buffalo Boy	Howardsville	Vertex Mining Co.	570 Bullitt Bldg., Philadelphia, Pa.	Gold, Silver
Caledonian (m) (a)	Eureka	Caledonian Mining and Milling Co.	Eureka	Gold, Silver, Lead, Zinc (c)
Copper Bell	Silverton	United Operating Trust, Inc.	Box 161, Rochester, N. Y.	(c)
Frisco Group (a)	Eureka	U. S. S. R. and M. Exploration Co.	85 Exchange St., Portland, Me.	(c)
Garryowen (a)	Howardsville	C. M. Lane	Silverton	(c)
Highland Mary (a)	Howardsville	Highland Mary Mining and Milling Co.	3829 Sheridan Blvd., Denver	Lead, Copper (c)
Iowa (m)	Silverton	Colorado-Mexico Mining Co.	406 Continental Bldg., Denver	Gold, Silver, Lead, Copper
Joe and John (a)	Silverton	Douglas Mining and Leasing Co.	710 Colorado Bldg., Denver	Gold, Silver, Lead, Copper, Zinc (c)
Lackawanna (m)	Silverton	Lackawanna Mining Company	278 25th St., Ogden, Utah	Gold, Silver, Lead, Zinc (c)
Lead Carbonate (a)	Gladstone	El Banco Mines Company	Room 84, 50 Columbia St., Bangor, Maine	Gold, Silver, Lead, Copper, Zinc (c)
Little Fannie (a)	Howardsville	Davis, Johnson, McDonald	Howardsville	Gold, Silver, Lead
Little Maud (a)	Middleton	Delaware M. and M. Co.	Durango	Gold, Silver, Lead (c)
Lucky Jack (a)	Eureka	J. E. Hanson and Son	Delta	Gold, Silver (c)
Mayflower (m)	Silverton	Shenandoah, Dives Syndicate	1000 Grand Avenue Temple, Kansas City, Missouri	Gold, Silver, Lead, Copper, Zinc (c)
Old Hundred (m) (a)	Howardsville	Dresser Mining Company	Silverton	Gold, Silver, Lead (c)

OPERATING MINES IN SAN JUAN COUNTY, 1928—Continued

Name	Location	Operator	Address	Character of Product
Pride of the West (a)	Howardsville	C. M. Lane	Silverton	Gold, Silver, Lead, Copper, Zinc (c)
Queen City (a)	Silverton	Andy Bostian, John Lind	Silverton	Gold, Silver, Lead (c)
Sultan Tunnel (m)	Silverton	Warren C. Prosser	535 U. S. Nat'l Bank Bldg., Denver	Gold, Silver, Lead, Copper, Zinc, Tungsten (c)
Sunnyside (m)	Eureka	Sunnyside Mining and Milling Co.	Eureka	Gold, Silver, Lead, Copper, Zinc

OPERATING MINES IN SAN MIGUEL COUNTY, 1928

Name	Location	Operator	Address	Character of Product
Alta (m) (a)	Telluride	Wagner Brothers	Telluride	Gold, Silver, Lead, Copper
Butterfly	Ophir	Butterfly Consolidated Mines, Inc.	Ophir	Gold, Silver, Lead, Copper
Carbonero (m)	Ophir	Girardi and Anderson	Telluride	Gold, Silver, Lead, Zinc
Nevada (a)	Ophir	Alexander Greig	510 East Colfax, Denver	Gold, Silver, Lead (c)
Shoemaker	Ophir	Ben W. Purdy and Company	Ophir	Gold, Silver, Zinc
Silver Bell (m) (a)	Ophir	Ophir Loop Mines Co.	Ophir	Gold, Silver, Lead
Smuggler Union (m)	Telluride	Smuggler Union Mining Company	201 Devonshire St., Boston, Mass.	Gold, Silver, Lead, Zinc

OPERATING MINES IN SUMMIT COUNTY, 1928

Name	Location	Operator	Address	Character of Product
Consolidated Penn	Montezuma	Consolidated Penn Mining Co.	1305 A St., Lincoln, Nebr.	Silver, Lead, Copper, Zinc, Iron
Detroit (m)	Breckenridge	Aco Mining Company	415 Lexington Ave., New York City	Gold, Silver, Lead
Dunkin	Breckenridge	Dunkin Leasing Co.	Breckenridge	Gold, Silver, Lead
Fisherman (a)	Montezuma	E. W. Brophy	Breckenridge	(c)
Four-Most	Frisco	Four-Most Mining and Milling Co.	Frisco	(c)
Hunkidory	Montezuma	Summit Mining and Milling Co.	Dillon	(c)
Ida Bell (a)	Keystone	Flanders Syndicate	80 Federal St., Boston, Mass.	Lead
King Solomon (a)	Frisco	King Solomon Mining Company	526 Mining Exchange Bldg., Denver	(c)

(a) Operated for part of the year only. (c) No production in 1928. (m) Mill operated in connection with mine.

CBM-1928-003
CBM-00191
Page 3 of 3

Folder

STATE OF COLORADO

BUREAU OF MINES

INSPECTOR'S REPORT

TO

JOHN T. JOYCE,

COMMISSIONER OF MINES

ASPEN MINE
Name of Mine or Plant

San Juan County

July 18, 1928

THE ASPEN MINE is operated under a lease by Martin Cina, Silverton. Owner, American Smelting and Refining Company, Denver.

The mine is located 2 1/2 miles east of Silverton in the Animas mining district, and is reached by horseback.

3 men employed.

Have compensation insurance. First aid supplies are provided.

The veins are fissures and are all widths. The property is developed by crosscuts, drifts driven on the veins, stopes and upraises. There are levels Nos. 1, 2, 3 and 4. At present all work is being done in No. 2 level. They drove a crosscut to the southeast about 400 feet from the portal, where the vein was intersected, and they drifted to the southeast about 200 feet on the vein. At that point a stope was taken out, 15 feet in height and 40 feet in length.

The ore is a sulphide. This mine has been operated since 1872, and has produced millions of dollars in gold, silver and lead.

There are buildings of all kinds on the property, which are used for all purposes. Buildings are old and not in good condition. No fire protection. None needed at the mine because there are several outlets. Everything at the mine workings is kept in good condition. There is a mill, but it has not been in operation for several years. Walls are solid. There is timber of all kinds and for all purposes. All openings are in good condition. Powder is carried in magazine in small quantities. No carbide is carried in the mine in bulk. No electricity. All mining is done by hand.

Some ore available.

No stock sold.

T. R. Henahen.
State Mine Inspector.

STATE OF COLORADO

BUREAU OF MINES

INSPECTOR'S REPORT

TO

JOHN T. JOYCE

COMMISSIONER OF MINES

ASPEN MINE
Name of Mine or Plant

San Juan County

July 6, 1927

✓

THE ASPEN MINE is operated under a lease by Hinckley and Company. Superintendent, Joe Hinckley, Silverton. Owner, American Smelting and Refining Company.

This mine is located two miles northeast of Silverton in the Animas mining district, and is reached by team.

3 men employed.

No compensation insurance. No telephone. Some first aid supplies are provided.

The bridges were out, and it was impossible for me to cross the river to visit this property.

For information see former reports.

T. A. Henahen.
State Mine Inspector.

Schwartz Printing Co., Denver

IMPORTANT

BLANKS SHOULD BE COMPLETELY FILLED OUT AND RETURNED BY FEBRUARY 1, 1938

METAL MINES AND MILLS

Name of Mine or Plant Aspen Mine

County San Juan, Post Office Silverton, District San Juan

Not operated not entered

REPORT TO BUREAU OF MINES

STATE OF COLORADO

FOR THE YEAR 193 7

OPERATOR.

Name of Company, Partnership or Individual } American Smelting and Refining Company

Address of Principal Office 120 Broadway, New York City, N.Y.

Local Office 607 First National Bank Bldg., Denver, Colo.

If incorporated, under the laws of what state?

Names, titles and addresses of officers, partners.

Name and Address of Owner American Smelting and Refining Company
120 Broadway, New York City

If names of claims have been listed in previous reports, only changes, if any, need be given.

Names and Numbers of patented claims

Total acreage

Names of unpatented claims

Total acreage

Do you own these claims, or do you operate them under lease? own

Was your property operated in whole or in part during the past year? NOT OPERATED IN 1937

If you have given a lease to others for all or part of the property, state the names and P. O. address of the leasing companies, partnerships or individuals, together with the name or description of part leased, next below:

Is the work done by your lessees included in this report?

Have you a mill or reduction works? If so, what is its character and capacity?

List all improvements and developments made during the past year

PRODUCTION

CRUDE OR SHIPPING ORE: No. tons Average gross value per ton $

Total value $. Average grade of different metallic content in ores as follows:

Gold oz. Lead % Copper % Sulphur %
Silver oz. Zinc % Iron % Insoluble %

MILLING ORE: Tons milled. Milling processes employed

Average gross value per ton crude ore milled $. Average grade crude ore milled in different metals as follows:

Gold oz. Lead % Copper % Sulphur %
Silver oz. Zinc % Iron % Insoluble %

CONCENTRATES: No. tons concentrates obtained from ores milled : Ratio of reduction tons into 1. Average value per ton concentrates $. Total value $

Average grade concentrates in the different metals as follows:

Gold oz. Lead % Copper % Sulphur %
Silver oz. Zinc % Iron % Insoluble %

State average costs per ton for mining $, hauling $, freight $, milling $, smelting $,

If any of the following metals are produced, give percentage, amount and value of each as follows:

Tungsten_____%, amount_____, value $_____. Uranium_____%, amount _____, value $_____. Vanadium_____%, amount_____, value $_____

Molybdenum_____%, amount_____, value $_____. Fluorspar_____%, amount_____, value $_____.

LABOR DATA

MINE

No. of Days Operated	Average Number of Men Employed and Shifts Worked			
	Underground	No. of Shifts	Surface	No. of Shifts

MILL

No. of Days Operated	Average Number of Men Employed and Shifts Worked	
	No. of Men	No. of Shifts

CLASSIFICATION OF LABOR IN AND ABOUT METAL MINES

UNDERGROUND

	Total 8 hr. Shifts	Wage per Shift
Miners		$
Machine Runners		$
Machine Helpers		$
Trammers & Muckers		$
Cagers		$
Timbermen		$
Pumpmen		$
Electricians		$
Other Underg'nd Labor		$

SURFACE

	Total 8 hr. Shifts	Wage per Shift
Topmen		$
Engineers		$
Firemen		$
Machinists		$
Blacksmiths		$
Carpenters		$
Superintendents		$
Foremen		$
Shift Bosses		$

Total number of shifts performed by all men employed underground_____

Total number of shifts performed by all men employed on surface_____

Classification of Labor in Ore Dressing Plants, Mills and Other Surface Occupations

	Total 8 hr. Shifts	Wage per Shift
Mill Superintendents		$
Mill Foremen		$
Mill Shift Bosses		$
Millmen		$
Roustabouts		$
Machinists		$
Electricians		$
Carpenters		$
		$

	Total 8 hr. Shifts	Wage per Shift
Ore Sorters		$
Tram Men		$
Teamsters		$
Timekeepers		$
Bookkeepers		$
Storekeepers		$
Cooks		$
Waiters		$
		$

Total number of shifts performed by all men employed in Mills, etc._____

Total cost of operations during the year. If this cannot be given accurately, give approximately:

_____

Remarks:_____

Dated at Denver, Colo., Jan. 13, 19 38

Signed American Smelting and Ref. Co.

By R. P. Raynolds

Title Manager

IMPORTANT

BLANKS SHOULD BE COMPLETELY FILLED OUT AND RETURNED BY FEBRUARY 1, 1936.

METAL MINES AND MILLS

Name of Mine or Plant ASPEN MINE

County San Juan, Post Office Silverton, District San Juan

REPORT TO BUREAU OF MINES

STATE OF COLORADO

FOR THE YEAR 1935

OPERATOR.

Name of Company, Partnership or Individual: American Smelting & Refining Company,

Address of Principal Office 120 Broadway, New York City, N.Y.

Local Office 631 First National Bank Bldg., Denver, Colo.

Names, titles and addresses of officers, partners.

Name and Address of Owner American Smelting & Refining Company
120 Broadway, New York City

If names of claims have been listed in previous reports, only changes, if any, need be given.

Names and Numbers of patented claims

Total acreage

Names of unpatented claims

Total acreage

Do you own these claims, or do you operate them under lease? Own

Was your property operated in whole or in part during the past year? NOT OPERATED IN 1935

If you have given a lease to others for all or part of the property, state the names and P. O. address of the leasing companies, partnerships or individuals, together with the name or description of part leased, next below:

Is the work done by your lessees included in this report?

Have you a mill or reduction works? If so, what is its character and capacity?

List all improvements and developments made during the past year

PRODUCTION

CRUDE OR SHIPPING ORE: No. tons Average gross value per ton $

Total value $ Average grade of different metallic content in ores as follows:

Gold oz. Lead % Copper % Sulphur %

Silver oz. Zinc % Iron % Insoluble %

MILLING ORE: Tons milled Milling processes employed

Average gross value per ton crude ore milled $ Average grade crude ore milled in different metals as follows:

Gold oz. Lead % Copper % Sulphur %

Silver oz. Zinc % Iron % Insoluble %

CONCENTRATES: No. tons concentrates obtained from ores milled Ratio of reduction tons into 1. Average value per ton concentrates $ Total value $

Average grade concentrates in the different metals as follows:

Gold oz. Lead % Copper % Sulphur %

Silver oz. Zinc % Iron % Insoluble %

In all kinds of concentrates made, give character, tonnage and average value in all metals combined of each as follows: Lead, No. tons; value $ Zinc, No. tons; value $ Copper, No. tons; value $ State average costs per ton for mining $, hauling $, freight $, milling $, smelting $

If any of the following metals are produced, give percentage, amount and value of each as follows:

Tungsten.....%, amount....., value $..... Uranium.....%, amount

....., value $..... Vanadium.....%, amount....., value $.....

Molybdenum.....%, amount....., value $..... Fluorspar.....%,

amount....., value $.....

LABOR DATA

MINE					MILL		
No. of Days Operated	Average Number of Men Employed and Shifts Worked				No. of Days Operated	Average Number of Men Employed and Shifts Worked	
	Underground	No. of Shifts	Surface	No. of Shifts		No. of Men	No. of Shifts

CLASSIFICATION OF LABOR IN AND ABOUT METAL MINES

UNDERGROUND	Total 8 hr. Shifts	Wage per Shift	SURFACE	Total 8 hr. Shifts	Wage per Shift
Miners		$	Topmen		$
Machine Runners		$	Engineers		$
Machine Helpers		$	Firemen		$
Trammers & Muckers		$	Machinists		$
Cagers		$	Blacksmiths		$
Timbermen		$	Carpenters		$
Pumpmen		$	Superintendents		$
Electricians		$	Foremen		$
Other Underg'nd Labor		$	Shift Bosses		$

Total number of shifts performed by all men employed underground .....

Total number of shifts performed by all men employed on surface .....

Classification of Labor in Ore Dressing Plants, Mills and Other Surface Occupations

	Total 8 hr. Shifts	Wage per Shift		Total 8 hr. Shifts	Wage per Shift
Mill Superintendents		$	Ore Sorters		$
Mill Foremen		$	Tram Men		$
Mill Shift Bosses		$	Teamsters		$
Millmen		$	Timekeepers		$
Roustabouts		$	Bookkeepers		$
Machinists		$	Storekeepers		$
Electricians		$	Cooks		$
Carpenters		$	Waiters		$
		$			$

Total number of shifts performed by all men employed in Mills, etc. .....

Remarks: .....

Dated at Denver, Colo., Signed American Smelting & Ref. Co.

Jan. 23, 1936 By R P Reynolds

Title Manager

3650

METAL MINES AND MILLS

Name of Mine or Plant Aspen Mine

County San Juan, Post Office Silverton, Colo., District San Juan

REPORT TO BUREAU OF MINES

STATE OF COLORADO

FOR THE YEAR 1929

OPERATOR.

Name of Company, Partnership or Individuals: American Smelting & Refining Co.

Address of Principal Office 120 Broadway, New York City.

Local Office

Names, titles and addresses of officers, partners.

Name and Address of Owner

If names of claims have been listed in previous reports, only changes, if any, need be given.

Names and numbers of patented claims

Total acreage

Names of unpatented claims

Total acreage

Do you own these claims, or do you operate them under lease?

Was your property operated in whole or in part during the past year?

If it was not so operated, the following interrogatories should not be answered. Otherwise they must be answered fully.

If you operate under lease, in whole or in part, give name and address of company or person from whom leased

If you have given a lease to others for all or part of the property, state the names and P. O. address of the leasing companies, partnerships or individuals, together with the name or description of part leased, next below:

Martin Cina, Silverton, Colo.

Legal Tender Vein

Is the work done by your lessees included in this report?

Have you a mill or reduction works? If so, what is its character and capacity?

List all improvements and developments made during the past year.

MARTIN CINA, Lessee PRODUCTION

CRUDE OR SHIPPING ORE: No. tons 21 Average gross value per ton $ 43.47

Total value $ 913.07 Average grade of different metallic content in ores as follows:

Gold .6 oz. Lead 12.5 % Copper 5.8 % Sulphur 8.4 %

Silver 52.4 oz. Zinc 2.2 % Iron 8.0 % Insoluble 58.4 %

MILLING ORE: Tons milled Milling processes employed

Average gross value per ton crude ore milled $ Average grade crude ore milled in different metals as follows:

Gold oz. Lead % Copper % Sulphur %

Silver oz. Zinc % Iron % Insoluble %

CONCENTRATES: No. tons concentrates obtained from ores milled Ratio of reduction tons into 1. Average value per ton concentrates $ Total value $

Average grade concentrates in the different metals as follows:

Gold oz. Lead % Copper % Sulphur %

Silver oz. Zinc % Iron % Insoluble %

In all kinds of concentrates made, give character, tonnage and average value in all metals combined of each as follows: Lead, No. tons; value $ Zinc, No. tons; value $ Copper, No. tons; value $ State average costs per ton for mining $, hauling $, freight $, milling $, smelting $.

If any of the following metals are produced, give percentage, amount and value of each as follows:

Tungsten.....%, amount....., value $..... Uranium.....%, amount .....,
value $..... Vanadium.....%, amount....., value $.....
Molybdenum.....%, amount....., value $..... Fluorspar.....%,
amount....., value $.....

LABOR DATA

MINE **MILL**

No. of Days Operated	Average Number of Men Employed and Shifts Worked				No. of Days Operated	Average Number of Men Employed and Shifts Worked	
	Underground	No. of Shifts	Surface	No. of Shifts		No. of Men	No. of Shifts
120	"	180					

CLASSIFICATION OF LABOR IN AND ABOUT METAL MINES

UNDERGROUND	Total 8 hr. Shifts	Wage per Shift	SURFACE	Total 8 hr. Shifts	Wage per Shift
~~Miners~~ Underground	180	$ 5.25	Topmen		$
Machine Runners		$	Engineers		$
Machine Helpers		$	Firemen		$
Trammers & Muckers		$	Machinists		$
Cagers		$	Blacksmiths		$
Timbermen		$	Carpenters		$
Pumpmen		$	Superintendents		$
Electricians		$	Foremen		$
Other Underg'nd Labor		$	Shift Bosses		$

Total number of shifts performed by all men employed underground 180

Total number of shifts performed by all men employed on surface .....

CLASSIFICATION OF LABOR IN ORE DRESSING PLANTS, MILLS AND OTHER SURFACE OCCUPATIONS

	Total 8 hr. Shifts	Wage per Shift		Total 8 hr. Shifts	Wage per Shift
Mill Superintendents		$	Ore Sorters		$
Mill Foremen		$	Tram Men		$
Mill Shift Bosses		$	Teamsters		$
Millmen		$	Timekeepers		$
Roustabouts		$	Bookkeepers		$
Machinists		$	Storekeepers		$
Electricians		$	Cooks		$
Carpenters		$	Waiters		$
		$			$

Total number of shifts performed by all men employed in Mills, etc. .....

Remarks: All men had to sort, tram and drill, all classed as underground miners.

Dated at Denver, Colorado.,
February 20, 1930

Signed American Smelting & Ref. Co.
By C P Maynolds
Title Asst. Mgr.

IMPORTANT

NOTE.—PLEASE FILL OUT THIS REPORT COMPLETELY. DO NOT NEGLECT TO GIVE NUMBER OF DAYS OPERATED (IF ONLY ONE), AVERAGE NUMBER OF MEN EMPLOYED AND TOTAL NUMBER OF SHIFTS. BE SURE TO DATE THE REPORT, AND SIGN IT.

AMERICAN SMELTING & REFINING CO.
COLORADO DEPARTMENT
EQUITABLE BUILDING - - DENVER, COLORADO

R. E. H. POMEROY
MANAGER

R. P. RAYNOLDS
ASST. MANAGER

February 24, 1930.

Bureau of Mines,
State Office Bldg.,
Denver, Colorado.

Gentlemen:

I am enclosing herewith annual reports for the year 1929 covering the following plants and mines of the American Smelting & Refining Company:-

Arkansas Valley Plant	-	Leadville, Colorado.
Globe Plant	-	Denver, "
Durango Plant	-	Durango, "
Silver Lake Mine	-	Silverton, "
Aspen Mine	-	Silverton, "

Yours very truly,

R. P. RAYNOLDS

cc- REHPomeroy
RPReese

Encls.

2619 See Report Attached

METAL MINES AND MILLS

County San Juan, Post Office Silverton, Colo., District San Juan

Name of Mine or Plant Aspen Mine

REPORT TO BUREAU OF MINES

STATE OF COLORADO

FOR THE YEAR 1928

Name of Company or Title of Partnership } American Smelting & Refining Company

Address of Principal Office 120 Broadway, New York City.

Local Office

Names, titles and addresses of officers, partners or owners

If names of claims have been listed in previous reports, only changes, if any, need be given.

Names and numbers of patented claims

Total acreage

Names of unpatented claims

Total acreage

Was your property operated in whole or in part during the past year?

If it was not so operated, the following interrogatories should not be answered. Otherwise they must be answered fully.

Do you own these claims, or do you operate them under lease? Owned

If you operate under lease, in whole or in part, give name and address of company or person from whom leased

If you have given a lease to others for all or part of the property, state the names of the leasing companies, partnerships or individuals, together with the name or description of part leased:

Name	Manager	P. O. Address
Cina Brothers & Hinkley	(From Jan. 1st to June 1st)	Silverton, Colo.
Martin Cina	(From June 1st to December 31st)	" "

Is the work done by your lessees included in this report? Yes

Have you a mill or reduction works? Yes If so, what is its character and capacity? 500 Tons. (At SilverLake Mine)

PRODUCTION

CRUDE OR SHIPPING ORE: No. tons 131.1600 Average value per gross ton $ 39.70. Average grade of different metallic content in ores as follows:

Total $5201.17

Gold	0.443 oz.	Lead	18.60 %	Copper	4.15 %	Sulphur	8.1 %
Silver	40.6 oz.	Zinc	2.4 %	Iron	5.9 %	Insoluble	56.6 %

MILLING ORE: Tons milled - Milling processes employed -

Average value per gross ton crude ore milled $ - Average grade crude ore milled in different metals as follows:

Gold	- oz.	Lead	- %	Copper	- %	Sulphur	- %
Silver	- oz.	Zinc	- %	Iron	- %	Insoluble	- %

CONCENTRATES: No. tons concentrates obtained from ores milled - Ratio of reduction - tons into 1. Average value per ton concentrates $ - Average grade concentrates in the different metals as follows:

Gold	- oz.	Lead	- %	Copper	- %	Sulphur	- %
Silver	- oz.	Zinc	- %	Iron	- %	Insoluble	- %

If two or more kinds of concentrates are made, give character, tonnage and average value in all metals combined of each as follows: Lead, No. tons -; value $ - Zinc, No. tons -; value $ - Copper, No. tons -; value $ - State milling costs per ton $ -, smelting $ -, freight $ -

If any of the following metals are produced, give percentage, amount and value of each as follows:

Tungsten -%, amount -, value $- Uranium -%, amount -, value $- Vanadium -%, amount -, value $- Molybdenum -%, amount -, value $- Fluorspar -%, amount -, value $-.

LABOR DATA

UNDERGROUND MINES

Name of Mine or Plant	County	Post Office	Shipping Point	No. of Days Operated	Average Number of Men Employed	
					Underground	Surface
Aspen Mine	San Juan	Silverton, Colo.	Waldheim, Colorado.	362	2.7	Not segregated.

ORE-DRESSING PLANTS AND MILLS

At Mill

NOT OPERATED

CLASSIFICATION OF LABOR UNDERGROUND AND ON SURFACE ABOUT METAL MINES

	Total 8 hr. Shifts	Wage per Shift		Total 8 hr. Shifts	Wage per Shift
Miners		$	Nippers		$
Machine Runners		$	Other Underg'nd Labor		$
Machine Helpers		$	Topmen		$
Trammers		$	Engineers		$
Muckers		$	Firemen		$
Cagers		$	Machinists		$
Timbermen		$	Blacksmiths		$
Timbermen Helpers		$	Blacksmith's Helpers		$
Pumpmen		$	Carpenters		$
Pipemen		$	Superintendents		$
Electricians		$	Foremen		$
Motormen		$	Shift Bosses		$

Total number of shifts performed by all men employed underground 978

Total number of shifts performed by all men employed on surface

CLASSIFICATION OF LABOR IN ORE DRESSING PLANTS, MILLS AND OTHER SURFACE OCCUPATIONS

	Total 8 hr. Shifts	Wage per Shift		Total 8 hr. Shifts	Wage per Shift
Mill Superintendents		$	Ore Sorters		$
Mill Foremen		$	Tram Men		$
Mill Shift Bosses		$	Teamsters		$
Millmen		$	Timekeepers		$
Roustabouts		$	Bookkeepers		$
Machinists		$	Storekeepers		$
Electricians		$	Cooks		$
Carpenters		$	Waiters		$
		$			$

Total number of shifts performed by all men employed in Mills, etc.

Remarks:

Dated at Denver, Colorado., February 28, 1929

Signed American Smelting & Ref. Co.

By C. Maynard

Title Asst. Mgr.

NOTE.—PLEASE FILL OUT THIS REPORT COMPLETELY. DO NOT NEGLECT TO GIVE NUMBER OF DAYS OPERATED AND AVERAGE NUMBER OF MEN EMPLOYED. BE SURE TO DATE THE REPORT, AND SIGN IT.

METAL MINES AND MILLS

County San Juan, Post Office Silverton, Colo., District San Juan

Name of Mine or Plant Aspen

REPORT TO BUREAU OF MINES

STATE OF COLORADO

FOR THE YEAR 1926

Name of Company or Title of Partnership: American Smelting & Refining Co.

Address of Principal Office: 120 Broadway, New York City.

Names, titles and addresses of officers, partners or owners:

If names of claims have been listed in previous reports, only changes, if any, need be given.

Names and numbers of patented claims

Total acreage

Names of unpatented claims

Total acreage

Do you own these claims, or do you operate them under lease? Owned

If you operate under lease, give name and address of company or person from whom leased

If you have given a lease to others for all or part of the property, state the names of the leasing companies, partnerships or individuals:

Name	Manager	P. O. Address
A. E. Dalla		Silverton, Colo.

Is the work done by your lessees included in this report? Yes

Have you a mill or reduction works; Yes If so, what is its character and capacity? 500 Ton (At Silver Lake Mine)

Average contents of products **sold.** (If both crude ore and concentrates are sold, give average contents of each.)

Gold	.43 oz.	Copper	5.9 %	Iron	7.6 %	Tungstic acid	- %
Silver	31.1 oz.	Zinc	3.7 %	Sulphur	9.7 %	Uranium oxide	- %
Lead	20.78 %	Manganese	- %	Insoluble	51.8 %	Vanadium oxide	- %
		Molybdenum	- %	Fluorspar	- %		

Crude ore sold 23 tons Concentrates sold - tons Milling ore produced - tons

Gold or silver bullion produced, value -

List of buildings, tramways, and other surface improvements made during the year -

Amount and character of underground development during year: Shafts - ft

Winzes - ft. Raises - ft. Drifts - ft. Crosscuts - ft.

LABOR DATA

UNDERGROUND MINES

Name of Mine or Plant	County	Post Office	Shipping Point	No. of Days Operated	Average Number of Men Employed	
					Underground	Surface
Aspen Mine	San Juan	Silverton, Colo.	Robin, Colo.	24	4	

ORE-DRESSING PLANTS AND MILLS			At Mill
	Not Operated		

CLASSIFICATION OF LABOR UNDERGROUND AND ON SURFACE ABOUT METAL MINES

Cannot Classify	Total 8 hr. Shifts	Wage per Shift		Total 8 hr. Shifts	Wage per Shift
Miners		$	Nippers		$
Machine Runners		$	Other Underg'nd Labor		$
Machine Helpers		$	Topmen		$
Trammers		$	Engineers		$
Muckers		$	Firemen		$
Cagers	94	$ 5.00	Machinists		$
Timbermen		$	Blacksmiths		$
Timbermen Helpers		$	Blacksmith's Helpers		$
Pumpmen		$	Carpenters		$
Pipemen		$	Superintendents		$
Electricians		$	Foremen		$
Motormen		$	Shift Bosses		$

Total number of shifts performed by all men employed underground 94

Total number of shifts performed by all men employed on surface

CLASSIFICATION OF LABOR IN ORE DRESSING PLANTS, MILLS AND OTHER SURFACE OCCUPATIONS

	Total 8 hr. Shifts	Wage per Shift		Total 8 hr. Shifts	Wage per Shift
Mill Superintendents		$	Ore Sorters		$
Mill Foremen		$	Tram Men		$
Mill Shift Bosses		$	Teamsters		$
Millmen		$	Timekeepers		$
Roustabouts		$	Bookkeepers		$
Machinists		$	Storekeepers		$
Electricians		$	Cooks		$
Carpenters		$	Waiters		$
		$			$

Total number of shifts performed by all men employed in Mills, etc.

Remarks:

Dated at Durango, Colo., Feb. 11, 1927, 1927

Signed AMERICAN SMELTING & REFINING CO.,

By

Title

NOTE.—PLEASE FILL OUT THIS REPORT COMPLETELY. DO NOT NEGLECT TO GIVE NUMBER OF DAYS OPERATED AND AVERAGE NUMBER OF MEN EMPLOYED. BE SURE TO DATE THE REPORT, AND SIGN IT.

296

METAL MINES AND MILLS

County SAN JUAN, Post Office ....., District .....

Name of Mine or Plant Aspen Mine.

REPORT TO BUREAU OF MINES

STATE OF COLORADO

FOR THE YEAR 1927

Name of Company or Title of Partnership: Cina Brothers & Hinkley.

Address of Principal Office: Silverton, Colorado.

Names, titles and addresses of officers, partners or owners:
Pascoe Cina
Martin Cina.
Joe T. Hinkley.

If names of claims have been listed in previous reports, only changes, if any, need be given.

Names and numbers of patented claims .....

..... Total acreage .....

Names of unpatented claims .....

..... Total acreage .....

Do you own these claims, or do you operate them under lease? Lease

If you operate under lease, give name and address of company or person from whom leased
The American Smelting & Refining Company.

If you have given a lease to others for all or part of the property, state the names of the leasing companies, partnerships or individuals:

Name	Manager	P. O. Address
.....	.....	.....
.....	.....	.....
.....	.....	.....

Is the work done by your lessees included in this report? .....

Have you a mill or reduction works; No If so, what is its character and capacity? .....

.....

Average contents of products sold. (If both crude ore and concentrates are sold, give average contents of each.)

Gold	.45 oz.	Copper	3.5 %	Iron	5. %	Tungstic acid	%
Silver	.35. oz.	Zinc	2. %	Sulphur	7.5 %	Uranium oxide	%
Lead	20 %	Manganese	%	Insoluble	55. %	Vanadium oxide	%
		Molybdenum	%	Fluorspar	%		

Crude ore sold 153 tons Concentrates sold ..... tons Milling ore produced ..... tons

Gold or silver bullion produced, value .....

List of buildings, tramways, and other surface improvements made during the year None

.....

.....

Amount and character of underground development during year: Shafts ..... ft

Winzes ..... ft. Raises ..... ft. Drifts ..... ft. Crosscuts ..... ft.

LABOR DATA

UNDERGROUND MINES

Name of Mine or Plant	County	Post Office	Shipping Point	No. of Days Operated	Average Number of Men Employed	
					Underground	Surface
Aspen	San Juan	Silverton,	Waldhiem	1505	All	

ORE-DRESSING PLANTS AND MILLS				At Mill

CLASSIFICATION OF LABOR UNDERGROUND AND ON SURFACE ABOUT METAL MINES

	Total 8 hr. Shifts	Wage per Shift		Total 8 hr. Shifts	Wage per Shift
Miners All our men are Miners		$4.25	Nippers		$
Machine Runners		$	Other Underg'nd Labor		$
Machine Helpers		$	Topmen		$
Trammers		$	Engineers		$
Muckers		$	Firemen		$
Cagers		$	Machinists		$
Timbermen		$	Blacksmiths		$
Timbermen Helpers		$	Blacksmith's Helpers		$
Pumpmen		$	Carpenters		$
Pipemen		$	Superintendents		$
Electricians		$	Foremen		$
Motormen		$	Shift Bosses		$

Total number of shifts performed by all men employed underground 1505

Total number of shifts performed by all men employed on surface

CLASSIFICATION OF LABOR IN ORE DRESSING PLANTS, MILLS AND OTHER SURFACE OCCUPATIONS

	Total 8 hr. Shifts	Wage per Shift		Total 8 hr. Shifts	Wage per Shift
Mill Superintendents		$	Ore Sorters		$
Mill Foremen		$	Tram Men		$
Mill Shift Bosses		$	Teamsters		$
Millmen		$	Timekeepers		$
Roustabouts		$	Bookkeepers		$
Machinists		$	Storekeepers		$
Electricians		$	Cooks		$
Carpenters		$	Waiters		$
		$			$

Total number of shifts performed by all men employed in Mills, etc.

Remarks: We have no Bosses, all our men Work.
All ore was produced from one claim, know as the Legal Tender, U. S. Survey No.753

Dated at ~~Xxxxxx~~ Silverton, Colorado.
February, 1928

Signed Cina Brothers & Hinkley.
By Jos. T. Hinkley
Title

NOTE.—PLEASE FILL OUT THIS REPORT COMPLETELY. DO NOT NEGLECT TO GIVE NUMBER OF DAYS OPERATED AND AVERAGE NUMBER OF MEN EMPLOYED. BE SURE TO DATE THE REPORT, AND SIGN IT.

296

METAL MINES AND MILLS

County San Juan, Post Office Silverton, Colo., District San Juan

Name of Mine or Plant Aspen Mine

REPORT TO BUREAU OF MINES

STATE OF COLORADO

FOR THE YEAR 1926

Name of Company or Title of Partnership: American Smelting & Refining Company

Address of Principal Office: 120 Broadway, New York City

Names, titles and addresses of officers, partners or owners:

If names of claims have been listed in previous reports, only changes, if any, need be given.

Names and numbers of patented claims

Total acreage

Names of unpatented claims

Total acreage

Do you own these claims, or do you operate them under lease? Owned

If you operate under lease, give name and address of company or person from whom leased

If you have given a lease to others for all or part of the property, state the names of the leasing companies, partnerships or individuals:

Name	Manager	P. O. Address
Cina Bros. & Hinkley		Silverton, Colo.
Frank Andreatta		Silverton, Colo.

Is the work done by your lessees included in this report? Yes

Have you a mill or reduction works; yes If so, what is its character and capacity? 500 Tons (At Silver Lake Mine)

Average contents of products sold. (If both crude ore and concentrates are sold, give average contents of each.)

Gold	0.45 oz.	Copper	4.5 %	Iron	6.7 %	Tungstic acid	- %
Silver	34.6 oz.	Zinc	3.3 %	Sulphur	9.5 %	Uranium oxide	- %
Lead	23.7 %	Manganese	- %	Insoluble	49.8 %	Vanadium oxide	- %
		Molybdenum	- %	Fluorspar	- %		

Crude ore sold 131 tons Concentrates sold - tons Milling ore produced - tons

Gold or silver bullion produced, value -

List of buildings, tramways, and other surface improvements made during the year -

Amount and character of underground development during year: Shafts - ft

Winzes - ft. Raises - ft. Drifts - ft. Crosscuts - ft.

LABOR DATA

UNDERGROUND MINES

Name of Mine or Plant	County	Post Office	Shipping Point	No. of Days Operated	Average Number of Men Employed	
					Underground	Surface
Aspen Mine	San Juan	Silverton, Colo.	Robin, Colo.	175	8.6	

ORE-DRESSING PLANTS AND MILLS				At Mill
	Not Operated			

CLASSIFICATION OF LABOR UNDERGROUND AND ON SURFACE ABOUT METAL MINES

Cannot Classify	Total 8 hr. Shifts	Wage per Shift		Total 8 hr. Shifts	Wage per Shift
Miners	)	$	Nippers		$
Machine Runners	)	$	Other Underg'nd Labor		$
Machine Helpers	)	$	Topmen		$
Trammers	)	$	Engineers		$
Muckers	)	$	Firemen		$
Cagers	) 1,505	$ 5.25	Machinists		$
Timbermen	)	$	Blacksmiths		$
Timbermen Helpers	)	$	Blacksmith's Helpers		$
Pumpmen	)	$	Carpenters		$
Pipemen	)	$	Superintendents		$
Electricians	)	$	Foremen		$
Motormen	)	$	Shift Bosses		$

Total number of shifts performed by all men employed underground)

Total number of shifts performed by all men employed on surface) 1,505

CLASSIFICATION OF LABOR IN ORE DRESSING PLANTS, MILLS AND OTHER SURFACE OCCUPATIONS

	Total 8 hr. Shifts	Wage per Shift		Total 8 hr. Shifts	Wage per Shift
Mill Superintendents		$	Ore Sorters		$
Mill Foremen		$	Tram Men		$
Mill Shift Bosses		$	Teamsters		$
Millmen		$	Timekeepers		$
Roustabouts		$	Bookkeepers		$
Machinists		$	Storekeepers		$
Electricians		$	Cooks		$
Carpenters		$	Waiters		$
		$			$

Total number of shifts performed by all men employed in Mills, etc.

Remarks:

Dated at Durango, Colorado
February 14, 1928, 1927

Signed ~~American Smelting & Ref. Co.~~
By L P Hayfield
Title ~~Asst. Mgr. - Colo. Dept.~~

NOTE.—PLEASE FILL OUT THIS REPORT COMPLETELY. DO NOT NEGLECT TO GIVE NUMBER OF DAYS OPERATED AND AVERAGE NUMBER OF MEN EMPLOYED. BE SURE TO DATE THE REPORT, AND SIGN IT.

10

ETAL MINES AND MILLS

County San Juan, Post Office Silverton, Colo., District San Juan

Name of Mine or Plant Aspen

REPORT TO BUREAU OF MINES

STATE OF COLORADO

FOR THE YEAR 1925

Name of Company or Title of Partnership: American Smelting & Refining Company

Address of Principal Office: 120 Broadway, New York City.

Names, titles and addresses of officers, partners or owners:

If names of claims have been listed in previous reports, only changes, if any, need be given.

Names and numbers of patented claims

Total acreage

Names of unpatented claims

Total acreage

Do you own these claims, or do you operate them under lease? Owned

If you operate under lease, give name and address of company or person from whom leased

If you have given a lease to others for all or part of the property, state the names of the leasing companies, partnerships or individuals:

Name	Manager	P. O. Address
P. Antonelli		Silverton, Colo.

Is the work done by your lessees included in this report? Yes

Have you a mill or reduction works; No If so, what is its character and capacity? --

Average contents of products sold. Ore (If both crude ore and concentrates are sold, give average contents of each.)

Gold	3.0 oz.	Copper	4.2 %	Iron	6.5 %	Tungstic acid	- %
Silver	33.7 oz.	Zinc	3.0 %	Sulphur	8.8 %	Uranium oxide	- %
Lead	22.1 %	Manganese	- %	Insoluble	53.2 %	Vanadium oxide	- %
		Molybdenum	- %	Fluorspar	- %		

Crude ore sold 68 tons Concentrates sold - tons Milling ore produced - tons

Gold or silver bullion produced, value

List of buildings, tramways, and other surface improvements made during the year

None

Amount and character of underground development during year: Shafts - ft

Winzes - ft. Raises - ft. Drifts - ft. Crosscuts - ft.

LABOR DATA

UNDERGROUND MINES

Name of Mine or Plant	County	Post Office	Shipping Point	No. of Days Operated	Average Number of Men Employed	
					Underground	Surface
Aspen	San Juan	Silverton	Robin	134	5	

ORE DRESSING PLANTS AND MILLS

					At Mill
		None			

CLASSIFICATION OF LABOR UNDERGROUND AND ON SURFACE ABOUT METAL MINES

Cannot Classify	Total 8 hr. Shifts	Wage per Shift		Total 8 hr. Shifts	Wage per Shift
Miners		$	Nippers		$
Machine Runners		$	Other Underg'nd Labor		$
Machine Helpers		$	Topmen		$
Trammers		$	Engineers		$
Muckers	670	$ 4.00	Firemen		$
Cagers		$	Machinists		$
Timbermen		$	Blacksmiths		$
Timbermen Helpers		$	Blacksmith's Helpers		$
Pumpmen		$	Carpenters		$
Pipemen		$	Superintendents		$
Electricians		$	Foremen		$
Motormen		$	Shift Bosses		$

Total number of shifts performed by all men employed underground 670

Total number of shifts performed by all men employed on surface

CLASSIFICATION OF LABOR IN ORE DRESSING PLANTS, MILLS AND OTHER SURFACE OCCUPATIONS

	Total 8 hr. Shifts	Wage per Shift		Total 8 hr. Shifts	Wage per Shift
Mill Superintendents		$	Ore Sorters		$
Mill Foremen		$	Tram Men		$
Mill Shift Bosses		$	Teamsters		$
Millmen		$	Timekeepers		$
Roustabouts		$	Bookkeepers		$
Machinists		$	Storekeepers		$
Electricians		$	Cooks		$
Carpenters		$	Waiters		$
		$			$

Total number of shifts performed by all men employed in Mills, etc. ---

Remarks:

Dated at Durango, Colo., Feb. 11, 1926.

Signed AMERICAN SMELTING & REFINING CO.

By

Title

NOTE.—PLEASE FILL OUT THIS REPORT COMPLETELY. DO NOT NEGLECT TO GIVE NUMBER OF DAYS OPERATED AND AVERAGE NUMBER OF MEN EMPLOYED. BE SURE TO DATE THE REPORT, AND SIGN IT.

METAL MINES AND MILLS

County San Juan Post Office Silverton District Animas

REPORT TO BUREAU OF MINES
STATE OF COLORADO

FOR YEAR NOVEMBER 30, 1916 – NOVEMBER 30, 1917 Aspen Group

If a Company, fill out this space; otherwise leave it blank.

Name of Company—The AMERICAN SMELTING & REFINING COMPANY

Incorporated in the State of NEW JERSEY

Principal office 120 Broadway — New York City (P. O. Address)

President Daniel Guggenheim — 120 Broadway, N Y City

Secretary W. E. Merriss — 120 Broadway, N Y City

Manager L. G. Eakins — Box 1139, Denver, Colo

If a firm or partnership, fill out this space; otherwise leave it blank.

Title of Partnership ..... P. O. Address .....

Partners' Names ....

....

....

Manager ....

If neither company nor partnership, fill out this space.

Names of Owners — P. O. Address

....

....

....

Manager ....

Patented Twelve Claims as follows: River, Piedmont, San Juan, New York, Legal Tender, Washington, Chloride, McGregor, Susquehanna, Mammoth, Aspen and La Boca.

Total acreage see previous report.

Unpatented One claim, namely, the Hermosa.

Total acreage see previous report.

Do you own or lease these claims? We own them.

If outside Plant or Mill was idle so state No outside mill.

If you lease them, give name and address of company or person from whom leased .....

If you have given a lease to others for all or part of the property, state the names of the leasing companies, partnerships or individuals:

Name	Manager	P. O. Address
Means, Slattery & Pitcher	James R. Pitcher, Jr.	Silverton, Colo. (Lessees)
Johnson & Anderson,	Edw. Johnson	Silverton, Colo. (Sub-Lessees)

Average contents of ore brought to the surface:

Gold 0.202 oz. Copper 2.26 % Iron ----- % Tungstic acid ----- %

Silver 15.65 oz. Zinc ----- % Sulphur ----- % Uranium oxide ----- %

Lead 9.0 % Manganese ----- % Insoluble ----- % Vanadium oxide ----- %

Molybdenum sulfide ----- % Flourspar (CaF_2) ----- %

Crude ore sold 682 tons Concentrates sold none tons Milling ore produced ----- tons

Gold or silver bullion produced, value $ none

List of buildings, tramways and other surface improvements made during the year no improvements.

State amount and character of underground development made during year:

Shafts ..... ft. Drifts 10 ft. (Assessment work) ft.

Winzes ..... ft. Crosscuts ..... ft.

Upraise ..... ft.

Please list labor data for mines or mills below.

UNDERGROUND MINES.

Name of mine or plant.	County.	Post office.	Shipping point.	Days operated.	Average number of men employed. Underground.	Surface.
Aspen Mine	San Juan	Silverton	Silverton	1659	4-1/2	1/2

ORE-DRESSING PLANTS AND MILLS. At mill.

Please give below total hours' labor performed by all men during the year, for which wages were paid, as shown by pay roll.

Mines 13272 Mills -----

If assessment work only, give total number of shifts

CLASSIFICATION OF LABOR UNDERGROUND AND ON SURFACE ABOUT METAL MINES.

	Total 8 hr. shifts.	Wage per shift.		Total 8 hr. shifts.	Wage per shift.
Miners	1058	$ 4.00	Foremen		$
Machine Runners	60	$ 5.00	Shift Bosses		$
Machine Helpers		$	Surveyors		$
Loaders		$	Other Un'gd. Lr.		$
Trammers		$	Nippers		$
Shovelers, stope	430	$ 4.00	Scavengers		$
Muckers, drifts		$	Powdermen		$
Trackmen		$	Engineers		$
Topman		$	Firemen		$
Stationmen		$	Machinists		$
Cagers		$	Blacksmiths	111	$ 5.00
Timbermen		$	Blacksmith's H'lp'r		$
Timberman H'pr		$	Carpenters		$
Pumpers		$	Dumpers		$
Pipemen		$			$
Electricians		$			$
Motormen		$			$
Superintendents		$			$

CLASSIFICATION OF LABOR IN ORE DRESSING PLANTS, MILLS AND OTHER SURFACE OCCUPATIONS

	Total 8 hr. shifts.	Wage per shift.		Total 8 hr. shifts.	Wage per shift.
Millmen		$	Tram Gripmen		$
Mill Sup't		$	Tr. Grip. Helpers		$
Mill Forman		$	Time Keepers		$
Mill Shift B's		$	Other Mill Lbr		$
Machinists		$	Bookkeepers		$
Assayers		$	Store Keepers		$
Ore Assorters		$	Cooks		$
Teamsters		$	Waiters		$
Roustabouts		$	Other Office Hlp		$
Watchmen		$	Other Boarding Hlp		$
Electricians		$			$
Carpenters		$			$

Remarks:

Denver, Colorado,

Dated December 3rd, 1917 Signed American S & R Company Company

191 By L. G. Eakins

Title General Manager

Note Please fill out this report carefully, and answer all questions. Be sure to date the report and sign it.

County San Juan Post Office Silverton, Colo District Animas

REPORT TO BUREAU OF MINES

STATE OF COLORADO

FOR YEAR ENDING NOVEMBER 30, 1916.

In compliance with Sec. 4299, Revised Statutes of the State of Colorado.

If a Company, fill out this space; otherwise leave it blank.

Name of Company—The Aspen

Incorporated in the State of

Principal office P. O. Address

President

Secretary

Manager

If a firm or partnership, fill out this space; otherwise leave it blank.

Title of Partnership Johnson & Anderson.

Partners' Names P. O. Address

Ed. Johnson. Silverton, Colo.

Anderson ✓

Manager Ed. Johnson.

If neither company nor partnership, fill out this space.

Names of Owners P. O. Address

Manager

Patented 11 Claims of the Aspen Group. Total acreage Unknown

Unpatented 2 Claims of the Aspen Group. Total acreage Unknown.

Do you own or lease these claims? Lease.

If you lease them give name and address of company or person from whom leased American Smelting & Refining Co, Silverton, Colo.

If you have given a lease to others for all or part of the property, state the names of the leasing companies, partnerships or individuals:

Name	Manager	P. O. Address

Average content of ore brought to surface. Gold 0.14 oz; Silver 1.22 oz; Lead 10.46 per cent; Copper 2.14 per cent; Zinc 6.88 per cent; Tungstic Acid ✓ per cent; Uranium Oxide ✓ per cent; Vanadium Oxide ✓ per cent; Manganese ✓ per cent; Iron ✓ per cent; Sulphur ✓ per cent; Insoluble ✓ per cent.

Crude ore sold, tons 1098.108

Concentrates produced, tons None. Bullion produced, value $ None

Give list of buildings, tramways and other surface improvements 3 Bunkhouses, Boarding House (Office, Tram & Crusher House, Aerial Tramway, 150 ton Concentrating Mill, Mill not in lease)

Cost of surface improvements made during year - - - - - - - $ None.

State amount and character of underground development:

	Total Development		Amount Done During Year
Shafts	300.	ft.	ft.; cost per ft., $
Winzes	600.	ft.	ft.; cost per ft., $
Drifts	3800.	ft.	61 ft.; cost per ft., $ 7.75
Crosscuts	1500.	ft.	ft.; cost per ft., $

PLEASE LIST MINES, MILLS, (SMELTERS BELOW.

UNDERGROUND MINES.

Name of mine or plant.	County.	Post office.	Shipping point.	Days operated.	Average number of men employed.	
					Underground.	Surface.
Aspen Mine				366		

ORE-DRESSING PLANTS AND MILLS. At mill.

None					

SMELTING PLANTS. At smelter.

None.					

Please give below total hours' labor performed by all men during the year, for which wages were paid, as shown by pay roll.

Mines 18216 Mills None Smelters None

MEN EMPLOYED UNDERGROUND.

No Employed.		No. Employed.	
56 Miners	$4.50 for 8 hour shift.	Electricians	$ for hour shift.
Machine Runners	$ for hour shift.	Motormen	$ for hour shift.
Machine Helpers	$ for hour shift.	Superintendents	$ for hour shift.
2½ Loaders	$3.75 for 8 hour shift.	Foremen	$ for hour shift.
Shovelers (stopes)	$ for hour shift.	Shift Bosses	$ for hour shift.
1½ Muckers (drifts)	$3.75 for 8 hour shift.	Surveyors	$ for hour shift.
Track Layers	$ for hour shift.	Other Underg'd L'r	$ for hour shift.
Cage Tenders	$ for hour shift.		
Station Cagers	$ for hour shift.		
2½ Timbermen	$4.00 for 8 hour shift.		
Timbermen Helpers	$ for hour shift.		
Pumpers	$ for hour shift.		
Pipemen for Comp. Air plant	$ for hour shift.		

MEN EMPLOYED—SURFACE.

No Employed.		No. Employed.	
Engineers	$ for hour shift.	Mill Shift Bosses	$ for hour shift.
Firemen	$ for hour shift.	Roustabouts	$ for hour shift.
Blacksmiths	$ for hour shift.	Ore Assorters	$ for hour shift.
" Help'rs	$ for hour shift.	Watchmen	$ for hour shift.
Carpenters	$ for hour shift.	Other surface lbr.	$ for hour shift.
Dumpers	$ for hour shift.	Bookkeepers	$ for hour shift.
Electricians	$ for hour shift.	Time Keepers	$ for hour shift.
Surveyors	$ for hour shift.	Store Keepers	$ for hour shift.
Millmen	$ for hour shift.	Cooks	$ for hour shift.
Tramway Gripmen	$ for hour shift.	Waiters	$ for hour shift.
Tr. Grip. Helpers	$ for hour shift.	Other office help	$ for hour shift.
Mill Sup'tendents	$ for hour shift.	Other Boarding House help	$ for hour shift.
Mill Foreman	$ for hour shift.		

Remarks:

Dated Silverton, Colo. Dec 28th 1916 Signed Johnson & Anderson Company.

By Ed. Johnson

Title Manager

Note—Please fill out this report carefully, and answer all questions. Be sure to date the report and sign it.

269

METAL MINES AND MILLS

County SAN JUAN, Post Office Silverton, District San Juan

Name of Mine or Plant 4

REPORT TO BUREAU OF MINES

STATE OF COLORADO

FOR THE YEAR 1928

Name of Company or Title of Partnership American Smelting Refining Co Aspen

Address of Principal Office Silverton

Local Office aspen Mine Silverton

Names, titles and addresses of officers, partners or owners ~~no partner~~

If names of claims have been listed in previous reports, only changes, if any, need be given.

Names and numbers of patented claims

Total acreage

Names of unpatented claims no

Total acreage

Was your property operated in whole or in part during the past year?

If it was not so operated, the following interrogatories should not be answered. Otherwise they must be answered fully.

Do you own these claims, or do you operate them under lease?

If you operate under lease, in whole or in part, give name and address of company or person from whom leased

If you have given a lease to others for all or part of the property, state the names of the leasing companies, partnerships or individuals, together with the name or description of part leased:

Name	Manager	P. O. Address
Martin Cine		
Lease. tus non		

Is the work done by your lessees included in this report?

Have you a mill or reduction works? If so, what is its character and capacity?

PRODUCTION

CRUDE OR SHIPPING ORE: No. tons ? Average value per gross ton $ 45 Average grade of different metallic content in ores as follows:

Gold 44 oz. Lead 20 % Copper % Sulphur %

Silver 40 oz. Zinc no % Iron % Insoluble %

MILLING ORE: Tons milled non Milling processes employed

Average value per gross ton crude ore milled $ 45 Average grade crude ore milled in different metals as follows:

Gold oz. Lead % Copper % Sulphur %

Silver oz. Zinc % Iron % Insoluble %

CONCENTRATES: No. tons concentrates obtained from ores milled non Ratio of reduction tons into 1. Average value per ton concentrates $ Average grade concentrates in the different metals as follows:

Gold oz. Lead % Copper % Sulphur %

Silver oz. Zinc % Iron % Insoluble %

If two or more kinds of concentrates are made, give character, tonnage and average value in all metals combined of each as follows: Lead, No. tons; value $ Zinc, No. tons; value $ Copper, No. tons; value $ State milling costs per ton $, smelting $, freight $

If any of the following metals are produced, give percentage, amount and value of each as follows:

Tungsten no %, amount ....., value $ — Uranium — %, amount ....., value $ — Vanadium — %, amount ....., value $ .....

Molybdenum ..... %, amount ....., value $ ..... Fluorspar ..... %, amount ....., value $ .....

LABOR DATA

UNDERGROUND MINES

Name of Mine or Plant	County	Post Office	Shipping Point	No. of Days Operated	Average Number of Men Employed: Underground	Average Number of Men Employed: Surface
aspen	Son				2	no
Mine	Juan	Silver	Durango			

ORE-DRESSING PLANTS AND MILLS

					At Mill

CLASSIFICATION OF LABOR UNDERGROUND AND ON SURFACE ABOUT METAL MINES

	Total 8 hr. Shifts	Wage per Shift		Total 8 hr. Shifts	Wage per Shift
Miners 2		$	Nippers		$
Machine Runners	no	$	Other Underg'nd Labor		$
Machine Helpers	no	$	Topmen		$
Trammers	no	$	Engineers		$
Muckers	no	$	Firemen		$
Cagers	no	$	Machinists		$
Timbermen	no	$	Blacksmiths		$
Timbermen Helpers	no	$	Blacksmith's Helpers		$
Pumpmen	no	$	Carpenters		$
Pipemen	no	$	Superintendents		$
Electricians	no	$	Foremen		$
Motormen		$	Shift Bosses		$

Total number of shifts performed by all men employed underground 1000

Total number of shifts performed by all men employed on surface .....

CLASSIFICATION OF LABOR IN ORE DRESSING PLANTS, MILLS AND OTHER SURFACE OCCUPATIONS

	Total 8 hr. Shifts	Wage per Shift		Total 8 hr. Shifts	Wage per Shift
Mill Superintendents		$	Ore Sorters no		$ 4 25
Mill Foremen	no	$	Tram Men		$
Mill Shift Bosses	no	$	Teamsters		$
Millmen	no	$	Timekeepers no		$
Roustabouts	no	$	Bookkeepers no		$
Machinists	no	$	Storekeepers no		$
Electricians	no	$	Cooks		$
Carpenters		$	Waiters		$
		$			$

Total number of shifts performed by all men employed in Mills, etc. .....

Remarks: .....

Dated at ....., 1929

Signed Martin Cano

By .....

Title .....

NOTE.—PLEASE FILL OUT THIS REPORT COMPLETELY. DO NOT NEGLECT TO GIVE NUMBER OF DAYS OPERATED AND AVERAGE NUMBER OF MEN EMPLOYED. BE SURE TO DATE THE REPORT, AND SIGN IT.

Aspen Mine and Amy Tunnel Site Characterization

Former Asarco Silverton Site
Silverton, Colorado

Prepared for:
ASARCO Multi-State Environmental Custodial Trust

Submitted to:
Colorado Department of Public Health & Environment

Prepared by:
Ramboll US Corporation
Denver, Colorado

Date:
March 2018

Project Number:
1690004977-004

RAMBOLL

Contents

		Page
1	**Introduction**	**1**
2	**Site Reconnaissance and Sample Location Selection**	**3**
2.1	Surface Water	3
2.2	Sediment	4
2.3	Waste Rock	4
3	**Sampling Methodology**	**5**
3.1	Surface Water	5
3.2	Sediment	5
3.3	Waste Rock	6
3.4	Quality Assurance and Reporting	6
4	**Results**	**7**
4.1	Surface Water	7
4.2	Sediment	7
4.3	Waste Rock	8
4.4	Acid Generation Potential	8
5	**Summary and Conclusions**	**10**
6	**References**	**11**

List of Figures

Figure 1:	Approximate Site Location
Figure 2:	Approximate Location of Historic Mine Claims
Figure 3:	Approximate Sample Locations
Figure A.1	Approximate Photograph Locations, Aspen Mine and Amy Tunnel Characterization

List of Tables

Table 1:	Surface Water Quality Parameter Data
Table 2:	Surface Water Analytical Results
Table 3:	Surface Water Analysis Comparison to Table Value Standards
Table 4:	Sediment Analytical Results
Table 5:	Sediment Analysis Comparison to Table Value Standards
Table 6:	Waste Rock Analytical Results
Table 7:	Waste Rock Analysis Comparison to Table Value Standards

List of Appendices

Appendix A: Photograph Log
Appendix B: Laboratory Analytical Report
Appendix C: Field Notes

Acronyms and Abbreviations

4WD	four-wheel drive
ABA	acid-base accounting
AGP	acid generation potential
ANP	acid neutralization potential
ASARCO	American Smelting and Refining Co
BPMD	Bonita Peak Mining District Superfund Site
CDPHE	Colorado Department of Public Health & Environment
DO	dissolved oxygen
GPS	global positioning system
MDL	method detection limit
MS	matrix spike
MSD	matrix spike duplicate
NNP	net neutralization potential
NPR	neutralization potential ratio
ORP	oxidation-reduction potential
ppt	parts per thousand
PQL	practical quantitation limit
QAPP	Quality Assurance Project Plan
QC	quality control
Ramboll	Ramboll US Corporation
Ramboll Environ	Ramboll Environ US Corporation
RI	Remedial Investigation
RPD	Relative percent difference
RSL	Regional Screening Levels of the USEPA
SAP	Sampling and Analysis Plan
Site	Aspen Mine and Amy Tunnel Site
TAL	target analyte list
TDS	total dissolved solids
THQ	target hazard quotients
TR	Target Cancer Risk
Trust	Asarco Multi-State Environmental Custodial Trust
TSS	total suspended solids
TVS	Table Value Standards
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
WQCC	Water Quality Control Commission of the CDPHE

1 Introduction

On behalf of the ASARCO Multi-State Environmental Custodial Trust (Trust), Ramboll US Corporation (Ramboll; f.k.a. Ramboll Environ US Corporation) has prepared this report to summarize the characterization of the Aspen Mine and Amy Tunnel, which are both located on the San Juan Mine Claim formerly owned and operated by ASARCO in San Juan County, Colorado (also known as the Silverton Site). ASARCO filed for Chapter 11 Bankruptcy in August 2005 and the U.S. Bankruptcy Court approved a Settlement Agreement in December 2009, establishing the ASARCO Multi-State Environmental Custodial Trust (the "Trust") for 17 of the former ASARCO owned sites, including the Silverton Site. The Trust does not conduct any business and its objectives are to remediate the former ASARCO properties as directed by the lead agency, and if possible, sell the property. Ramboll serves as the environmental consultant on the Silverton Site for the Trust. The lead regulatory agency for the Silverton Site is the Colorado Department of Public Health and Environment (CDPHE).

The Aspen Mine and Amy Tunnel are also part of the Bonita Peak Mining District (BPMD) Superfund Site, which is under the management of the United States Environmental Protection Agency (USEPA). The BPMD Site Team includes the USEPA, the CDPHE, the U.S. Forest Service (USFS) and the Bureau of Land Management (BLM). The BPMD consists of 48 historic mines or mining-related sources where ongoing releases of metal-laden water and sediments are occurring within the Mineral Creek, Cement Creek and Upper Animas River drainages in San Juan County, Colorado. Historic mining operations in the area have contaminated soil, groundwater and surface water with heavy metals. A Remedial Investigation (RI) of the BPMD is currently being performed by the USEPA to determine the nature and extent of contamination. It is a priority of the BPMD Site Team to involve property owners and others in site investigative and remediation activities. The BPMD is one of 21 Superfund Sites identified by USEPA on December 5, 2017 as targeted for "immediate and intense action." As part of the BPMD Site Team, the CDPHE has directed the Trust to investigate the San Juan Mine Claim that is owned by the Trust.

Ramboll was contacted by the CDPHE on Friday July 7, 2017 to discuss the characterization of the Aspen Mine and Amy Tunnel. Ramboll prepared a scope of work to direct site characterization activities, which will be used to identify future remedial options. The scope of work was submitted to the CDPHE on September 5, 2017 (Ramboll Environ, 2017). The scope of work was subsequently approved by CDPHE in an email to the Trust that same day (CDPHE, 2017). The methods and procedure used for the characterization activities generally followed those specified in the Sampling and Analysis Plan/Quality Assurance Project Plan (SAP/QAPP) prepared by the USEPA for the BPMD Superfund site (USEPA, 2016).

The San Juan Mine Claim, which includes the Aspen Mine and Amy Tunnel, is located approximately 1.5 miles northeast of the town of Silverton, San Juan County, Colorado. The San Juan Mine Claim is rectangular shaped and approximately 10.1 acres in size configured from southeast to northwest (Figure 1). The former Aspen Mine is located at the southeast corner of the Site and the former Amy Tunnel is located at the northwest corner of the Site (Figure 2). The Aspen Mine is accessible via a four-wheel drive (4WD) service road from County Road 52. With the exception of waste rock piles located at the Aspen Mine and Amy

Tunnel, the area is covered with pine and aspen trees. The topography slopes from southeast to northwest and the elevation ranges from approximately 10,100 feet at the southeastern end of the property to approximately 9,700 feet at the northwestern end. The Animas River is located approximately 800 feet north of the Site. A former mining road leads from the Aspen Mine to the Amy Tunnel; however, the road is not accessible by vehicle because it is overgrown with dense vegetation and a 100-foot section was washed out southeast of Amy Tunnel. Locations in the San Juan Mine Claim beyond the Aspen Mine were not accessible by 4WD vehicles and required hiking to access.

2 Site Reconnaissance and Sample Location Selection

The site characterization activities of the Aspen Mine and Amy Tunnel were performed on September 27, 2017. Prior to sample collection, Ramboll performed a site reconnaissance in order to determine representative sample locations based on the topography and surface water features. The locations of the San Juan Mine Claim, the Aspen Mine and the Amy Tunnel are provided on Figures 1 and 2. Photographs taken during the reconnaissance are provided in Appendix A and field notes are provided in Appendix C.

2.1 Surface Water

Representative surface water sampling locations were selected following the site reconnaissance. The presence of surface water was not observed on the eastern portion of the site. A dry drainage channel was observed near the Aspen Mine that extended northwest towards the Amy Tunnel and the Animas River. The first evidence of surface water was observed near the Amy Tunnel on the western end of the site, which ultimately travels northwest to the Animas River. Three separate sample locations for surface water were identified (Figure 3) during the reconnaissance and the sampling commenced from downstream to upstream. The rationale for the selected locations discussed from upstream to downstream is provided below.

- Surface water was observed southeast of the Amy Tunnel emerging from the base of an apparent landslide that is thought to have covered the Amy Tunnel adit as shown on Photograph 8. Collection of a sample from this location (SW-03) is important as it was the first water encountered on the site and to help determine whether the water originates from the mine feature and whether it could be considered acid mine drainage.
- The presumed Amy Tunnel adit discharge flows east of the Amy Tunnel waste rock pile before turning northwest towards a small pond (referred to as the upper pond, Figure 3), which was observed by CDPHE during a prior visit. This pond is located approximately 700 feet downstream of Amy Tunnel discharge and northwest of the San Juan Mine Claim. A sample was collected at this location (SW-01) to compare constituent concentrations downstream of the adit drainage and waste rock piles to determine if constituents of concern are being transported off site at concentrations above regulatory levels.
- The drainage from the upper pond flows west to an area that appeared to be another former pond (referred to as the lower pond, Figure 3). Evidence of a failed beaver dam was observed on the north end of the lower pond (see photo 15 in Appendix A), upstream of the confluence of the lower pond discharge with the Animas River. Review of satellite imagery from Google Earth confirmed the lower pond was present from at least 1998 until October 2015. The furthest downstream sample (SW-02) was collected at the top of a very steep slope above the confluence of the lower pond discharge with the Animas River to document the concentrations of the constituents of concern as they are leaving the site.

2.2 Sediment

Representative sediment sampling locations were also selected following the site reconnaissance. Three separate sample locations for sediment were identified (Figure 3) during the reconnaissance and the sampling commenced from downstream to upstream. The rationale for the selected locations discussed from upstream to downstream is provided below.

- A dry drainage channel was observed near the Aspen Mine that extends northwest toward the Amy Tunnel and the Animas River. Sample SED-03 was collected just downgradient of the Aspen Mine waste rock pile in a topographically low area, which likely retains water during snowmelt or heavy precipitation events. The sample location was selected to determine whether runoff from the waste rock pile may be transporting metals from the waste rock pile into surface water, groundwater, sediment, the Animas River and beyond.
- The dry drainage channel extends toward the Amy Tunnel and a second sample, SED-02, was collected approximately 375 feet downgradient of sample location SED-03 in a topographically low point. The sample was collected in this location to compare constituent concentrations downstream of the upstream sediment sample and Aspen Mine waste rock pile to determine if constituents of concern are being transported off site at concentrations above regulatory levels.
- Sediment sample (SED-01) was collected upstream of the confluence of the lower pond discharge with the Animas River (co-located with surface water sampling location SW-02). The results from this sample will document the constituent concentrations of the sediment at the most downstream location before the surface water/sediment would enter the Animas River.

2.3 Waste Rock

The two waste rock piles located at each end of the San Juan Mine Claim were sampled. The Aspen Mine waste rock pile is located on the eastern end of the property adjacent to the 4WD service road. The areal extent of the Aspen Mine waste rock pile is approximately 0.75 acres. The Amy Tunnel waste rock pile is located on the western end of the property and could only be accessed by hiking approximately ½ mile down an overgrown former Forest Service road. The approximate areal extent of the Amy Tunnel waste rock pile is 1.5 acres. One composite sample was collected from each half of the two waste rock piles, for a total of two composite samples per pile. Each composite sample consisted of five sample aliquots. Figure 3 shows the composite sample locations for the Amy Tunnel (WR-01 and WR-02) and Aspen Mine (WR-03 and WR-04) waste rock piles.

3 Sampling Methodology

A summary of the methodology used to collect surface water, sediment and waste rock pile samples is provided below.

3.1 Surface Water

Prior to surface water sampling at each location, a Horiba U-22 meter was used to record water quality parameters including: temperature, pH, conductivity, oxidation-reduction potential (ORP), and dissolved oxygen (DO). The field recorded water quality parameters are summarized in Table 1. At each location, water depth was sufficient for the Horiba probe to be submerged into the water body with minimum disturbance of sediment.

Sampling was performed using a peristaltic pump. The influent tube opening was oriented in the upstream direction of flow and positioned vertically between the water surface and the bottom of the channel in an attempt to minimize the collection of particulate matter.

Surface water samples were collected sequentially from downstream to upstream sampling locations to avoid cross-contamination in accordance with *Surface Water Sampling* SOP FLD-01.00 (EPA, 2012). In addition, the downstream surface water sample (SW-02) was collected prior to collection of the co-located sediment sample (SED-01) to avoid cross-contamination. The samples from sampling locations SW-02 and SW-03 for dissolved metals analysis were field filtered using disposable 0.45-micron cartridge filters and the sample for dissolved metals analysis from location SW-01 was filtered by the laboratory (the field team inadvertently filled the sample bottles before filtering, but there was sufficient unpreserved sample volume for the laboratory to filter the sample for dissolved metals and wet chemistry analysis). The approximate location of each surface water sample was recorded with a Global Positioning System (GPS) unit with a horizontal accuracy of 10 meters (Figure 3).

Surface water samples were containerized in appropriate bottles provided by the analytical laboratory, labeled, and placed in an iced cooler for shipment under a chain of custody. The samples were submitted for analysis for the total Target Analyte List (TAL) metals, dissolved TAL metals, cations, anions, total suspended solids (TSS), total dissolved solids (TDS), and pH. Measurements of pH were also collected at the time of sampling as discussed in Section 4.1 as pH is supposed to be analyzed immediately and the sample results from the laboratory are considered beyond hold time.

3.2 Sediment

Sediment grab samples were collected from the upper 0.5 feet of sediment in known or suspected sediment depositional areas. Samples were collected using a stainless-steel scoop that was decontaminated using Alconox© and deionized water after each use. Three sediment samples were collected and their locations recorded using a GPS unit (Figure 3).

The sediment samples were containerized in pre-cleaned glass bottles provided by the analytical laboratory, labeled, and placed in an iced cooler for shipment under a chain of custody. The samples were submitted for analysis for TAL metals and acid generation potential (AGP).

3.3 Waste Rock

Each waste rock pile was divided into two approximately equal halves or portions, based on field observations. Five aliquots were collected from each half of the pile to form a composite sample. One composite sample was collected from each half of the waste rock pile, for two composite samples per pile. Near surface material (between zero and six inches in depth) was collected and homogenized in the field prior to containerizing the sample.

Composite waste rock samples were containerized in appropriate bottles provided by the analytical laboratory, labeled, and placed in an iced cooler for shipment under a chain of custody. The samples were submitted for analysis for the TAL metals and AGP.

3.4 Quality Assurance and Reporting

Ramboll generally followed the USEPA BPMD quality control and assurance procedures which apply to the implementation of these procedures.

- All data was documented on field data sheets and within site logbooks;
- QA samples were collected as follows:
    - One surface water field duplicate sample was collected for at the SW-03 location. Relative percent differences (RPDs) were calculated for results that were reported above the practical quantitation limit (PQL) for both the parent sample and field duplicate. All calculated RPDs for total and dissolved metals reported for SW-03-170927 and field duplicate of SW-03-170927-FD were within 30%. RPDs for total metals reported for soil sample WR-03-170927 and field duplicate WR-03-170927-FD were within 50% with the exception of cadmium, calcium, lead, silver, and zinc. RPDs above 50% for soil samples may indicate poor precision. The results were qualified “J” as estimated for a potential bias due to sampling, analysis, and/or sample heterogeneity.
    - One waste rock field duplicate was collected at the WR-03 location. The RPD was 31%, greater than the laboratory control limit of 20%. However, the calculated field duplicate RPD for this samples was 4.5%, which indicates good precision. Therefore, no data were qualified.
    - Additional volume to allow for performance of a Matric Spike and Matrix Spike Duplicate (MS/MSD) was collected for sample SW-02-170927. The percent recoveries and RPDs were within the quality control criteria for total metals. A post-digestion spike and post-digestion spike duplicate were prepared from samples SW-01-170927 and SW-02-170927 for dissolved metals analysis. The recoveries and RPDs were within the quality control criteria.

The samples collected during the site investigation were submitted to ACZ Laboratory located in Steamboat Springs, Colorado, for analysis and validated following USEPA Level IV guidelines by Ramboll personnel. The data validation report is available for review upon request.

4 Results

The results of the sampling of the surface water, sediment and waste rock are discussed below. The laboratory analytical reports are provided in Appendix B.

4.1 Surface Water

A summary of the surface water sampling results is provided in Table 2, including the wet chemistry water quality parameters and both total and dissolved TAL metals. Review of the pH results in Table 1 indicates that the surface water exhibited a neutral pH with values that ranged between 6.8 and 7.7 (the laboratory results provided in Table 2 ranged from 7.8 and 8.1 which are consistent with the results observed in the field). Several metals were detected above the respective laboratory detection limits. With a few exceptions, the total and dissolved results for each metal were similar in magnitude with the dissolved concentration slightly less than the total concentration. This is likely due to the limited amount of particulate matter that was present in the surface water and the care taken during sampling to avoid disturbing the sediment at the surface water sampling locations.

The metals results were compared to site-specific hardness-dependent standards calculated using equations developed by the CDPHE Water Quality Control Commission (WQCC) promulgated regulations to establish classifications and numeric standards for the San Juan and Dolores River Basins, including all tributaries and standing bodies of water south of the northern Dolores County lines (5 CCR 1002-34, Regulation 34). Section 3 of 5CCR 1002-34 Regulation 34 defines equations based on hardness values to calculate chronic Table Value Standards (TVS) values which are used to compare to the select group of metals (total concentration for aluminium and dissolved concentrations for all other defined metals) which are summarized in Table 3. The classifications identify the actual beneficial uses of the water. The numeric standards are assigned to determine the allowable concentrations of various parameters.

A review of the dissolved metals results compared to the TVS as summarized in Table 3 indicates there were exceedances in two of the ten metals where TVS exist. The surface water collected from each sampling surface water sampling location exceeded both the dissolved cadmium and zinc TVS.

4.2 Sediment

ACZ Laboratories analyzed the sediment samples for metals using USEPA SW846 Method 6010/6020. A summary of the sediment sampling results is provided in Table 4. All of the metal results were above laboratory detection limits. The sediment sampling results were then compared to the USEPA Regional Screening Levels (RSLs) (November 2017 RSLs) as summarized in Table 5. At the direction of the CDPHE, the results were compared to both the residential and industrial RSLs. The concentrations were compared to both the residential and industrial RSLs with a target hazard quotient (THQ) of 0.1 and a target cancer risk (TR) of 1E-6.

A total of 9 of the 23 metal constituents that were analyzed (aluminum, arsenic, cobalt, copper, iron, lead, manganese, thallium, and vanadium) were detected in one or more of the sediment samples above their respective residential RSL. Two of the metals (arsenic and lead) were detected in one or more of the sediment samples above their respective industrial RSL. The

sediment samples have the same RSL exceedances with the exception of copper, lead, and vanadium. SED-03 is the only sample with a residential RSL exceedance for copper, and SED-01 is the only sample with a residential RSL exceedance for vanadium. In addition, the lead concentration is above the residential RSL in SED-02, and the industrial RSL in SED-03.

4.3 Waste Rock

ACZ Laboratories analyzed the waste rock samples for metals using USEPA SW846 Method 6010/6020. A summary of the waste rock sampling results is provided in Table 6. The waste rock sampling results were also compared to the USEPA RSLs as summarized in Table 7. A total of 13 of the 23 metal constituents analyzed (aluminum, antimony, arsenic, cadmium, cobalt, copper, iron, lead, manganese, silver, thallium, vanadium, and zinc) had concentrations above their respective residential RSLs. A total of four metals (arsenic, lead, manganese, and thallium) had concentrations above their respective industrial RSLs. The waste rock piles generally have a similar set of metals detected above their respective RSLs, however samples collected from the Aspen Mine waste rock (WR-03 and WR-04) had concentrations of silver and vanadium above their respective residential RSLs whereas the samples collected from the Amy Tunnel waste rock (WR-01 and WR-02) did not.

4.4 Acid Generation Potential

ACZ Laboratories ran a standard ABA (acid/base accounting) analysis using Method 600/2-78-054 for both the sediment and waste rock samples. ABA is the balance between the acid-production and the acid-consumption properties of a mine waste material. ABA is based on the premise that the propensity for a site to produce acid mine drainage can be predicted by quantitatively determining the total amount of acidity and alkalinity the strata on a site can potentially produce.

The state of Colorado does not have set standards for acid generation potential, but the evaluation can help determine whether the waste rock piles have the potential to generate acid mine drainage.

Acid generation potential (AGP), acid neutralization potential (ANP), and net neutralization potential (NNP) were calculated by the laboratory using the USEPA Sobek method (standard ABA method) (Sobek et. al, 1978). Ramboll completed an additional calculation in order to compare the data to the United States Geological Survey (USGS) published values (Fey, 2003); neutralization potential ratio (NPR) was calculated by dividing the ANP by the AGP, and can be directly compared to USGS values:

- If the NPR value is < 1, the material is considered acid producing; and
- If the NPR value is > 3, the material is considered non-acid producing (California and Nevada).

The waste rock samples' NPR values range from 0.31 to 0.80, so the four waste rock samples are considered to be acid producing according to the USGS. The sediment samples' NPR values range from 1.92 to 2.74, which are all in an undefined range using the above USGS criteria, but not considered to be non-acid producing. Runoff from the waste rock piles over the

years could have impacted the sediment to be within the undefined range rather than the non-acid producing range or the soils in the area could naturally exhibit NPR values between 1 and 3.

Additionally, the NNP can be used to determine if a material is considered acid producing. The NNP is calculated by subtracting the AP from the NP, and can be directly compared to USGS values:

- If the NNP is greater than 20 kg/ton $CaCO_3$, it is generally accepted that the material is non-acid producing;
- If the NNP is less than -20 kg/ton $CaCO_3$, it is generally accepted that the material is acid producing; and
- NNP values between -20 and 20 kg/ton $CaCO_3$ are in the range of uncertainty. Kinetic tests may be needed.

NNP was calculated by ACZ Laboratory with units of t $CaCO_3$/Kt (tons of calcium carbonate per kiloton of material) compared to that of USGS with units of kg $CaCO_3$/ton (kilograms of calcium carbonate per ton of material), both of which are a ratio of parts per thousand (ppt) $CaCO_3$. The Amy Tunnel waste rock samples' NNP values are -24.6 and -29.8 ppt for WR-01 and WR-02, respectively. These results are both less than -20 ppt, and are therefore considered to be acid producing. The Aspen Mine waste rock samples' NNP values are -11.5 and -2.7 ppt for WR-03 and WR-04, respectively. These results are between -20 and 20 ppt, and therefore are considered to be in the range of uncertainty. The sediment samples' NNP values range from 1.4 to 3.8 ppt, all between -20 and 20 ppt, and are considered to be in the range of uncertainty, which could indicate the runoff from the waste rock piles over the years could have impacted the sediment to be within the undefined range rather than the non-acid producing range or the soils in the area naturally exhibit NNP values between -20 and 20 ppt.

5 Summary and Conclusions

The CDPHE requested that the Trust perform site characterization activities of the Aspen Mine and Amy Tunnel, which are both located on the San Juan Mine Claim, a former ASARCO mine claim in San Juan County, Colorado. Ramboll prepared a scope of work to direct site characterization activities and submitted it to the CDPHE on September 5, 2017. The scope of work was subsequently approved by CDPHE on the same day. The site characterization activities of the Aspen Mine and Amy Tunnel were performed on September 27, 2017.

Three surface water samples were collected: one from the confluence of the lower pond discharge with Animas River, one from daylighting surface water at the suspected former adit above the Amy Tunnel waste rock pile, and one collected between the two at the upstream end of the upper pond. A review of the total metals results compared to the TVS as summarized in Table 3 indicates there were concentrations of two metals (i.e., cadmium and zinc) above TVS.

Three sediment samples were also collected: one co-located with surface water sampling location SW-02 and two located between the Amy Tunnel and the Aspen Mine in the dry drainage channel. The sediment sampling results were compared to both the residential and industrial USEPA RSLs. A total of 9 of the 23 metals (i.e., aluminum, arsenic, cobalt, copper, iron, lead, manganese, thallium, and vanadium) were detected above residential RSLs and two metals (i.e., arsenic and lead) were detected above industrial RSLs.

One composite sample was collected from each half of the two waste rock piles, for a total of two composite samples per pile (four total waste rock samples). A total of 13 of the 23 metal constituents analyzed (aluminum, antimony, arsenic, cadmium, cobalt, copper, iron, lead, manganese, silver, thallium, vanadium, and zinc) were detected above residential RSLs and four metals (arsenic, lead, manganese, and thallium) were detected above industrial RSLs.

Acid-base accounting was also performed on the sediment and waste rock samples. ABA is the balance between the acid-production and the acid-consumption properties of a mine waste material. An evaluation of the neutralization potential ratio revealed that the waste rock samples were all considered to be acid producing. An evaluation of the net neutralization potential revealed that the Amy Tunnel waste rock samples were considered to be acid producing and the Aspen Mine samples were considered to be in the range of uncertainty.

Metals were detected in the surface water and sediment samples at concentrations above standards (TVS for surface water and USEPA RSLs for sediment), which is likely due to the presence of the waste rock piles, which also have concentrations of metals above the USEPA RSLs. The waste rock piles are considered to be acid producing, which can lead to transport of metals from the piles into the environment. The transport of metals from the waste rock piles into surface water, groundwater, sediment, the Animas River and beyond is expected to continue due to the exposed surfaces of the waste rock piles. Remedial actions would be required to prevent the transport of metals from the waste rock piles.

6 References

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Tables

Table 1
Asarco Silverton - Aspen Mine and Amy Tunnel
Surface Water Quality Parameter Data

Location	Date Sampled	Time Sampled	Temperature (°C)	Specific Conductivity (mS/cm)	DO (mg/L)	DO %	pH	ORP (mV)	Turbidity (NTUs)	Visual Observation	Sample ID
SW-01	9/27/2017	9:45	4.53	0.447	10.84	84.4	6.84	74.8	0.20	Clear	SW-01-170927
SW-02	9/27/2017	10:30	4.97	0.439	NM	75.0	7.65	99.8	NM	Clear	SW-02-170927
SW-03	9/27/2017	11:55	5.60	0.458	4.71	NM	7.28	114	0.74	Clear	SW-03-170927

Notes:

ORP = Oxidation reduction potential
DO = Dissolved oxygen
(°C) = Degrees Celcius
mV = Millivolts
% = percent saturation DO
mg/L = Milligrams per liter
NTUs = Nephelometric turbidity units
NM = Not measured
(mS/cm) = Millisiemens per centimeter

Table 2
Asarco Silverton - Aspen Mine and Amy Tunnel
Surface Water Analytical Results

Wet Chemistry	Units	SW-01-170927		SW-02-170927		SW-02-170927 (MS/MSD)		SW-02-170927 (MS/MSD)		SW-03-170927		SW-03-170927-Duplicate	
Bicarbonate as CaCO3	mg/L	69.4		50.0		49.0		49.7		51.0		50.9	
Carbonate as CaCO3	mg/L	<2	U	<2	U	<2	U	<2	U	<2	U	<2	U
Cation-Anion Balance	%	-4.1		-2.4		-2.4		-3.0		-2.4		-1.8	
Chloride	mg/L	0.6	B	<0.5	U	0.6	B	<0.5	U	<0.5	U	<0.5	U
Hydroxide as CaCO3	mg/L	<2	U	<2	U	<2	U	<2	U	<2	U	<2	U
Hardness as CaCO3	mg/L	406		388		396		396		404		409	
pH	units	8.1	H	7.9	H	7.8	H	7.8	H	7.8	H	7.8	H
pH measured at	C	22.4		22.4		22.4		22.4		22.3		22.4	
Residue, Filterable (TDS) @180C	mg/L	588		580		576		580		588		584	
Sulfate	mg/L	350		356		358		358		365		363	
Sum of Anions	meq/L	8.8		8.5		8.5		8.5		8.7		8.6	
Sum of Cations	meq/L	8.1		8.1		8.1		8.0		8.3		8.3	
TDS (calculated)	mg/L	554		548		549		548		561		560	
TDS (ratio - measured/calculated)		1.06		1.06		1.05		1.06		1.05		1.04	
Total Alkalinity	mg/L	69.4		50.0		49.0		49.7		51.0		50.9	
Metals	**Units**												
Aluminum, dissolved	mg/L	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U
Aluminum, total	mg/L	<0.03	U	0.06	B	0.05	B	0.05	B	<0.03	U	<0.03	U
Antimony, dissolved	mg/L	<0.0004	U	<0.0004	U	<0.0004	U	<0.0004	U	<0.0004	U	<0.0004	U
Antimony, total	mg/L	<0.0004	U	<0.0004	U	<0.0004	U	<0.0004	U	<0.0004	U	<0.0004	U
Arsenic, dissolved	mg/L	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U	0.0003	B	0.0003	B
Arsenic, total	mg/L	0.0003	B	0.0003	B	0.0003	B	0.0003	B	0.0005	B	0.0006	B
Barium, dissolved	mg/L	0.028		0.025		0.024		0.024		0.019	B	0.019	B
Barium, total	mg/L	0.024		0.020		0.021		0.021		0.015	B	0.015	B
Beryllium, dissolved	mg/L	<0.00005	U	<0.00005	U	<0.00005	U	<0.00005	U	<0.00005	U	<0.00005	U
Beryllium, total	mg/L	<0.00005	U	<0.00005	U	<0.00005	U	<0.00005	U	<0.00005	U	<0.00005	U
Cadmium, dissolved	mg/L	0.0031		0.0027		0.0028		0.0027		0.0028		0.0029	
Cadmium, total	mg/L	0.0036		0.0041		0.0040		0.0041		0.0032		0.0033	
Calcium, dissolved	mg/L	154		154		153		152		158		159	
Calcium, total	mg/L	158		151		154		154		158		160	
Chromium, dissolved	mg/L	<0.01	U	<0.01	U	<0.01	U	<0.01	U	<0.01	U	<0.01	U
Chromium, total	mg/L	<0.01	U	<0.01	U	<0.01	U	<0.01	U	<0.01	U	<0.01	U
Cobalt, dissolved	mg/L	0.01	B	<0.01	U	<0.01	U	0.02	B	<0.01	U	<0.01	U
Cobalt, total	mg/L	<0.01	U	<0.01	U	<0.01	U	<0.01	U	<0.01	U	<0.01	U
Copper, dissolved	mg/L	<0.01	U	<0.01	U	<0.01	U	<0.01	U	<0.01	U	<0.01	U
Copper, total	mg/L	<0.01	U	<0.01	U	<0.01	U	<0.01	U	<0.01	U	<0.01	U
Iron, dissolved	mg/L	<0.02	U	0.04	B	0.04	B	0.04	B	<0.02	U	<0.02	U
Iron, total	mg/L	<0.02	U	0.09		0.09		0.09		<0.02	U	<0.02	U
Lead, dissolved	mg/L	0.0002	B	0.0002	B	0.0002	B	0.0001	B	<0.0001	U	0.0001	B
Lead, total	mg/L	0.0005		0.0023		0.0022		0.0021		0.0003	B	0.0004	B
Magnesium, dissolved	mg/L	2.7		2.8		2.8		2.8		2.5		2.5	
Magnesium, total	mg/L	2.7		2.7		2.8		2.8		2.4		2.4	
Manganese, dissolved	mg/L	<0.005	U	0.024	B	0.024	B	0.024	B	<0.005	U	<0.005	U
Manganese, total	mg/L	<0.005	U	0.020	B	0.020	B	0.020	B	<0.005	U	<0.005	U
Mercury, dissolved	mg/L	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Mercury, total	mg/L	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U	<0.0002	U
Nickel, dissolved	mg/L	<0.008	U	<0.008	U	<0.008	U	<0.008	U	<0.008	U	<0.008	U
Nickel, total	mg/L	<0.008	U	<0.008	U	<0.008	U	<0.008	U	<0.008	U	<0.008	U
Potassium, dissolved	mg/L	0.5	B	0.4	B	0.4	B	0.4	B	0.5	B	0.5	B
Potassium, total	mg/L	0.5	B	0.5	B	0.5	B	0.4	B	0.4	B	0.5	B
Selenium, dissolved	mg/L	0.0013		0.0012		0.0013		0.0012		0.0015		0.0015	
Selenium, total	mg/L	0.0015		0.0013		0.0014		0.0013		0.0016		0.0015	
Silver, dissolved	mg/L	<0.00005	U	<0.00005	U	<0.00005	U	<0.00005	U	<0.00005	U	<0.00005	U
Silver, total	mg/L	<0.00005	U	<0.00005	U	<0.00005	U	<0.00005	U	<0.00005	U	<0.00005	U
Sodium, dissolved	mg/L	3.4		3.6		3.6		3.5		3.5		3.5	
Sodium, total	mg/L	3.5		3.5		3.6		3.6		3.5		3.5	
Thallium, dissolved	mg/L	<0.0001	U	<0.0001	U	<0.0001	U	<0.0001	U	<0.0001	U	<0.0001	U
Thallium, total	mg/L	<0.0001	U	<0.0001	U	<0.0001	U	<0.0001	U	<0.0001	U	<0.0001	U
Vanadium, dissolved	mg/L	<0.005	U	<0.005	U	<0.005	U	<0.005	U	<0.005	U	<0.005	U
Vanadium, total	mg/L	<0.005	U	<0.005	U	<0.005	U	<0.005	U	<0.005	U	<0.005	U
Zinc, dissolved	mg/L	0.49		0.55		0.55		0.55		0.56		0.57	
Zinc, total	mg/L	0.49		0.54		0.55		0.55		0.53		0.55	

Notes and Abbreviations:

SW Surface Water sample location
mg/L milligrams per liter, equivalent to parts per million (ppm)
% percentage
units pH numeric scale measure in units of moles per liter of hydrogen ions
C degrees Celsius
meq/L milliequivalents of solute per liter
MDL Method Detection Limit
PQL Practical Quantitation Limit. Synonymous with the USEPA term "minimum level"
< Not detected above the MDL
Black values indicate a detection
All metals are tested using method USEPA M200.7 or M200.8, except for Mercury which is tested using M245.1

Qualifiers:

B Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L Target Analyte response was below the laboratory defined negative threshold.
U The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Table 3
Asarco Silverton - Aspen Mine and Amy Tunnel
Surface Water Analysis Comparison to Table Value Standards

		SW-01			SW-02			SW-03		
Metals	**Units**	**TVS**	**SW-01-170927**		**TVS**	**SW-02-170927**		**TVS**	**SW-03-170927**	
Aluminum, total	mg/L	3.19	<0.03	U	3.00	0.06	B	3.17	<0.03	U
Cadmium, dissolved	mg/L	0.0012	**0.0031**		0.0012	**0.0027**		0.0012	**0.0028**	
Chromium, dissolved	mg/L	0.011	<0.01	U	0.011	<0.01	U	0.011	<0.01	U
Copper, dissolved	mg/L	0.038	<0.01	U	0.037	<0.01	U	0.038	<0.01	U
Lead, dissolved	mg/L	0.0051	0.0002	B	0.0050	0.0002	B	0.0051	0.0001	B
Manganese, dissolved	mg/L	2.63	<0.005	U	2.59	0.024	B	2.63	<0.005	U
Nickel, dissolved	mg/L	0.17	<0.008	U	0.16	<0.008	U	0.17	<0.008	U
Selenium, dissolved	mg/L	0.0046	0.0013		0.0046	0.0012		0.0046	0.0015	
Silver, dissolved	mg/L	0.0036	<0.00005	U	0.0033	<0.00005	U	0.0035	<0.00005	U
Zinc, dissolved	mg/L	0.41	**0.49**		0.39	**0.55**		0.41	**0.56**	

Notes and Abbreviations:

SW Surface Water sample location

mg/L milligrams per liter, equivalent to parts per million (ppm)

TVS Table Value Standard, dervied from Colorado Department of Public Health and Environment (CDPHE) Water Quality for Animas River

MDL Method Detection Limit

PQL Practical Quantitation Limit. Synonymous with the USEPA term "minimum level"

< Not detected above the MDL

Black values indicate a detection

Bold values indicate an exceedance of TVS

All metals are tested using method USEPA M200.7 or M200.8, except for Mercury which is tested using M245.1

Qualifiers:

B Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.

U The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Table 4
Asarco Silverton - Aspen Mine and Amy Tunnel
Sediment Analytical Results

Wet Chemistry	Units	SED-01-170927		SED-02-170927		SED-03-170927	
Acid Generation Potential (calc on Sulfur total)	t CaCO3/Kt	2.19	B	1.56	B	2.50	B
Acid Neutralization Potential (calc)	t CaCO3/Kt	6.0		3.0		5.0	
Net Neutraliztion Potential (calc on Sulfur total)	t CaCO3/Kt	3.8		1.4		2.5	
Neutralization Potential Ratio (calc)	unitless	2.74		1.92		2.00	
Neutralization Potential as CaCO3	%	0.6		0.3	B	0.5	
Solids, Percent	%	52.4		52.8		61.2	
Sulfur, total	%	0.07	B	0.05	B	0.08	B
Metals	**Units**						
Aluminum	mg/Kg	27,000		15,800		13,800	
Antimony	mg/Kg	0.2	B	0.7	B	0.9	B
Arsenic	mg/Kg	12.3		7.6		11.8	
Barium	mg/Kg	271		162		113	
Beryllium	mg/Kg	1.31		0.65		0.78	
Cadmium	mg/Kg	6.04		2.41		6.81	
Calcium	mg/Kg	6,840		5,550		4,300	
Chromium	mg/Kg	7	B	8		7	
Cobalt	mg/Kg	10		7		14	
Copper	mg/Kg	109		53		1,100	
Iron	mg/Kg	25,700		20,300		20,700	
Lead	mg/Kg	326		415		1,350	
Magnesium	mg/Kg	7,020		4,720		4,560	
Manganese	mg/Kg	899		866		2,010	
Mercury	mg/Kg	0.0677		0.254		0.239	
Nickel	mg/Kg	6.0	B	5.8		5.1	
Potassium	mg/Kg	2,770		2,240		2,200	
Selenium	mg/Kg	6.34		0.76		0.81	
Silver	mg/Kg	1.33		2		3.25	
Sodium	mg/Kg	90	B	70	B	60	B
Thallium	mg/Kg	0.51		0.21	B	0.33	
Vanadium	mg/Kg	41		31.9		27.8	
Zinc	mg/Kg	617		391		694	

Notes and Abbreviations:

SED Sediment sample location

mg/kg milligrams per kilogram, equivalent to parts per million (ppm)

% percentage

t CaCO3/Kt tons of calcium carbonate per kilotonne of material

MDL Method Detection Limit

PQL Practical Quantitation Limit. Synonymous with the USEPA term "minimum level"

All metals are tested using method USEPA 3050 for total metals, except for Mercury which is tested using Direct Combustion AA

Qualifiers:

B Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.

Table 5
Asarco Silverton - Aspen Mine and Amy Tunnel
Sediment Analysis Comparison to USEPA RSLs

Metals	Units	USEPA RSL Soil Standards THQ=0.1 TR=1E-6		SED-01-170927		SED-02-170927		SED-03-170927	
		Residential	Industrial						
Aluminum	mg/Kg	#REF!	#REF!	27,000		15,800		13,800	
Antimony	mg/Kg	#REF!	#REF!	0.2	B	0.7	B	0.9	B
Arsenic[1]	mg/Kg	0.68	3	**12.3**		**7.6**		**11.8**	
Barium	mg/Kg	#REF!	#REF!	271		162		113	
Beryllium	mg/Kg	#REF!	#REF!	1.31		0.65		0.78	
Cadmium	mg/Kg	#REF!	#REF!	6.04		2.41		6.81	
Calcium	mg/Kg	--	--	6,840		5,550		4,300	
Chromium[2]	mg/Kg	12,000	180,000	7	B	8		7	
Cobalt	mg/Kg	#REF!	#REF!	10		7		14	
Copper	mg/Kg	#REF!	#REF!	109		53		1,100	
Iron	mg/Kg	#REF!	#REF!	25,700		20,300		20,700	
Lead	mg/Kg	#REF!	#REF!	326		415		1,350	
Magnesium	mg/Kg	--	--	7,020		4,720		4,560	
Manganese[3]	mg/Kg	180	2,600	**899**		**866**		**2,010**	
Mercury	mg/Kg	#REF!	#REF!	0.0677		0.254		0.239	
Nickel	mg/Kg	#REF!	#REF!	6	B	5.8		5.1	
Potassium	mg/Kg	--	--	2,770		2,240		2,200	
Selenium	mg/Kg	#REF!	#REF!	6.34		0.76		0.81	
Silver	mg/Kg	#REF!	#REF!	1.33		2.00		3.25	
Sodium	mg/Kg	--	--	90	B	70	B	60	B
Thallium	mg/Kg	#REF!	#REF!	0.51		0.21	B	0.33	
Vanadium	mg/Kg	#REF!	#REF!	41		31.9		27.8	
Zinc	mg/Kg	#REF!	#REF!	617		391		694	

Notes and Abbreviations:

THQ Target Hazard Quotients
TR Target Cancer Risk
WR Waste Rock sample location
SED Sediment sample location
mg/kg milligrams per kilogram, equivalent to parts per million (ppm)
MDL Method Detection Limit
PQL Practical Quantitation Limit. Synonymous with the USEPA term "minimum level"
1 Arsenic RSL values are for Arsenic, Inorganic in USEPA Standards
2 Chromium RSL values are for Chromium(III), Insoluble Salts in USEPA Standards
3 Manganese RSL values are for Manganese (non-diet) in USEPA Standards
Black values indicate a detection
Bold values indicate an exceedance of USEPA Residential Soil Standards
Underlined values indicate an exceedance of USEPA Industrial Soil Standards
United States Environmental Protection Agency (USEPA) Regional Screening Levels (RSLs) - Soil Standards (November, 2017)
All metals are tested using method USEPA 3050 for total metals, except for Mercury which is tested using Direct Combustion AA

Qualifiers:

B Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.

Table 6
Asarco Silverton - Aspen Mine and Amy Tunnel
Waste Rock Analytical Results

Wet Chemistry	Units	WR-01-170927		WR-02-170927		WR-03-170927		WR-03-170927-FD		WR-04-170927	
Acid Generation Potential (calc on Sulfur total)	t CaCO3/Kt	35.6		43.8		22.5		20.6		13.8	
Acid Neutralization Potential (calc)	t CaCO3/Kt	11.0		14.0		11.0		14.0		11.0	
Net Neutraliztion Potential (calc on Sulfur total)	t CaCO3/Kt	-24.6		-29.8		-11.5		-6.6		-2.7	
Neutralization Potential Ratio (calc)	unitless	0.31		0.32		0.49		0.68		0.80	
Neutralization Potential as CaCO3	%	1.1		1.4		1.1		1.4		1.1	
Solids, Percent	%	88.5		93.7		93.0		91.8		91.1	
Sulfur, total	%	1.14		1.40		0.72		0.66		0.44	
Metals	**Units**										
Aluminum	mg/Kg	11,200		13,700		32,500		25,200		22,200	
Antimony	mg/Kg	6.7		6.3		40	B	14.9		8.8	
Arsenic	mg/Kg	36.2		27.6		47.0		35.1		44.0	
Barium	mg/Kg	110		209		540		382		295	
Beryllium	mg/Kg	0.71		0.63		1.41		1.06		1.00	
Cadmium	mg/Kg	35.0		27.4		52		14.0		5.46	
Calcium	mg/Kg	4,840		7,860		45,600		17,400		15,100	
Chromium	mg/Kg	5		3	B	5	B	5		4	B
Cobalt	mg/Kg	14		18		27		27		7	
Copper	mg/Kg	1,520		1,500		3,000		3,320		1,310	
Iron	mg/Kg	49,700		38,800		39,100		43,600		44,200	
Lead	mg/Kg	10,600		8,150		22,400		12,400		10,900	
Magnesium	mg/Kg	5,950		5,460		5,410		5,520		5,750	
Manganese	mg/Kg	3,840		5,340		16,500		11,400		3,170	
Mercury	mg/Kg	0.783		0.781		0.758		0.793		1.070	
Nickel	mg/Kg	3.7	B	2.0	B	5.0	B	4.2		2.0	B
Potassium	mg/Kg	2,300		3,310		13,600		8,440		7,330	
Selenium	mg/Kg	5.47		3.69		4.89		5.12		5.42	
Silver	mg/Kg	36		21.9		108		48		59	
Sodium	mg/Kg	50	B	60	B	220		80	B	70	B
Thallium	mg/Kg	0.40		0.51		1.27		0.92		0.81	
Vanadium	mg/Kg	25.3		31.7		50		42.0		41.0	
Zinc	mg/Kg	6,650		5,930		6,880		2,370		1,190	

Notes and Abbreviations:

WR Waste Rock sample location
mg/kg milligrams per kilogram, equivalent to parts per million (ppm)
% percentage
t CaCO3/Kt tons of calcium carbonate per kilotonne of material
MDL Method Detection Limit
PQL Practical Quantitation Limit. Synonymous with the USEPA term "minimum level"

All metals are tested using method USEPA 3050 for total metals, except for Mercury which is tested using Direct Combustion AA

Qualifiers:

B Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.

Table 7
Asarco Silverton - Aspen Mine and Amy Tunnel
Waste Rock Analysis Comparison to USEPA RSLs

Metals	Units	USEPA RSL Soil Standards THQ=0.1 TR=1E-6		WR-01-170927		WR-02-170927		WR-03-170927		WR-04-170927	
		Residential	Industrial								
Aluminum	mg/Kg	#REF!	#REF!	11,200		13,700		32,500		22,200	
Antimony	mg/Kg	#REF!	#REF!	6.7		6.3		40	B	8.8	
Arsenic[1]	mg/Kg	0.68	3	**36.2**		**27.6**		**47.0**		**44.0**	
Barium	mg/Kg	#REF!	#REF!	110		209		540		295	
Beryllium	mg/Kg	#REF!	#REF!	0.71		0.63		1.41		1.00	
Cadmium	mg/Kg	#REF!	#REF!	35.0		27.4		52		5.46	
Calcium	mg/Kg	--	--	4,840		7,860		45,600		15,100	
Chromium[2]	mg/Kg	12,000	180,000	5		3	B	5	B	4	B
Cobalt	mg/Kg	#REF!	#REF!	14		18		27		7	
Copper	mg/Kg	#REF!	#REF!	1,520		1,500		3,000		1,310	
Iron	mg/Kg	#REF!	#REF!	49,700		38,800		39,100		44,200	
Lead	mg/Kg	#REF!	#REF!	10,600		8,150		22,400		10,900	
Magnesium	mg/Kg	--	--	5,950		5,460		5,410		5,750	
Manganese[3]	mg/Kg	180	2,600	**3,840**		**5,340**		**16,500**		**3,170**	
Mercury	mg/Kg	#REF!	#REF!	0.783		0.781		0.758		1.070	
Nickel	mg/Kg	#REF!	#REF!	3.7	B	2	B	5	B	2.0	B
Potassium	mg/Kg	--	--	2,300		3,310		13,600		7,330	
Selenium	mg/Kg	#REF!	#REF!	5.47		3.69		4.89		5.42	
Silver	mg/Kg	#REF!	#REF!	36		21.9		108		59	
Sodium	mg/Kg	--	--	50	B	60	B	220		70	B
Thallium	mg/Kg	#REF!	#REF!	0.40		0.51		1.27		0.81	
Vanadium	mg/Kg	#REF!	#REF!	25.3		31.7		50		41.0	
Zinc	mg/Kg	#REF!	#REF!	6,650		5,930		6,880		1,190	

Notes and Abbreviations:

THQ Target Hazard Quotients
TR Target Cancer Risk
WR Waste Rock sample location
SED Sediment sample location
mg/kg milligrams per kilogram, equivalent to parts per million (ppm)
MDL Method Detection Limit
PQL Practical Quantitation Limit. Synonymous with the USEPA term "minimum level"
1 Arsenic RSL values are for Arsenic, Inorganic in USEPA Standards
2 Chromium RSL values are for Chromium(III), Insoluble Salts in USEPA Standards
3 Manganese RSL values are for Manganese (non-diet) in USEPA Standards
Black values indicate a detection
Bold values indicate an exceedance of USEPA Residential Soil Standards
Underlined values indicate an exceedance of USEPA Industrial Soil Standards
United States Environmental Protection Agency (USEPA) Regional Screening Levels (RSLs) - Soil Standards (November, 2017)
All metals are tested using method USEPA 3050 for total metals, except for Mercury which is tested using Direct Combustion AA

Qualifiers:

B Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.

Figures

San Juan Mine Claim

N

0 0.5 1 2

Miles

Colorado

RAMBOLL ENVIRON

Approximate Site Location
Aspen Mine and Amy Tunnel Characterization
ASARCO Silverton
San Juan County, Colorado

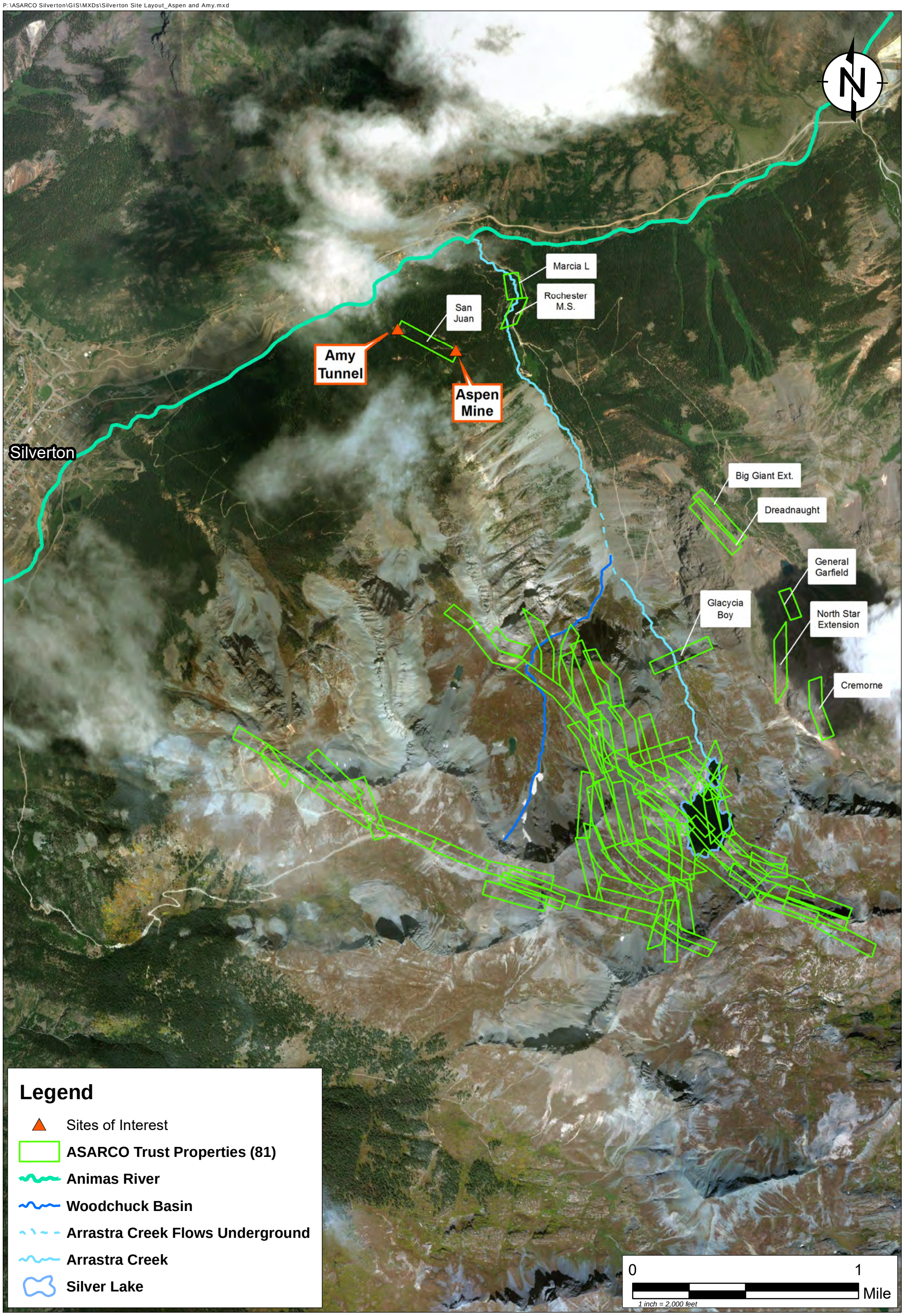
FIGURE 1

Author: JLK | Date: 1/2/2018

1690004977-004

P:\ASARCO Silverton\GIS\MXDs\Figure_01_Aspen and Amy.mxd

P:\ASARCO Silverton\GIS\MXDs\Silverton Site Layout_Aspen and Amy.mxd



RAMBOLL ENVIRON

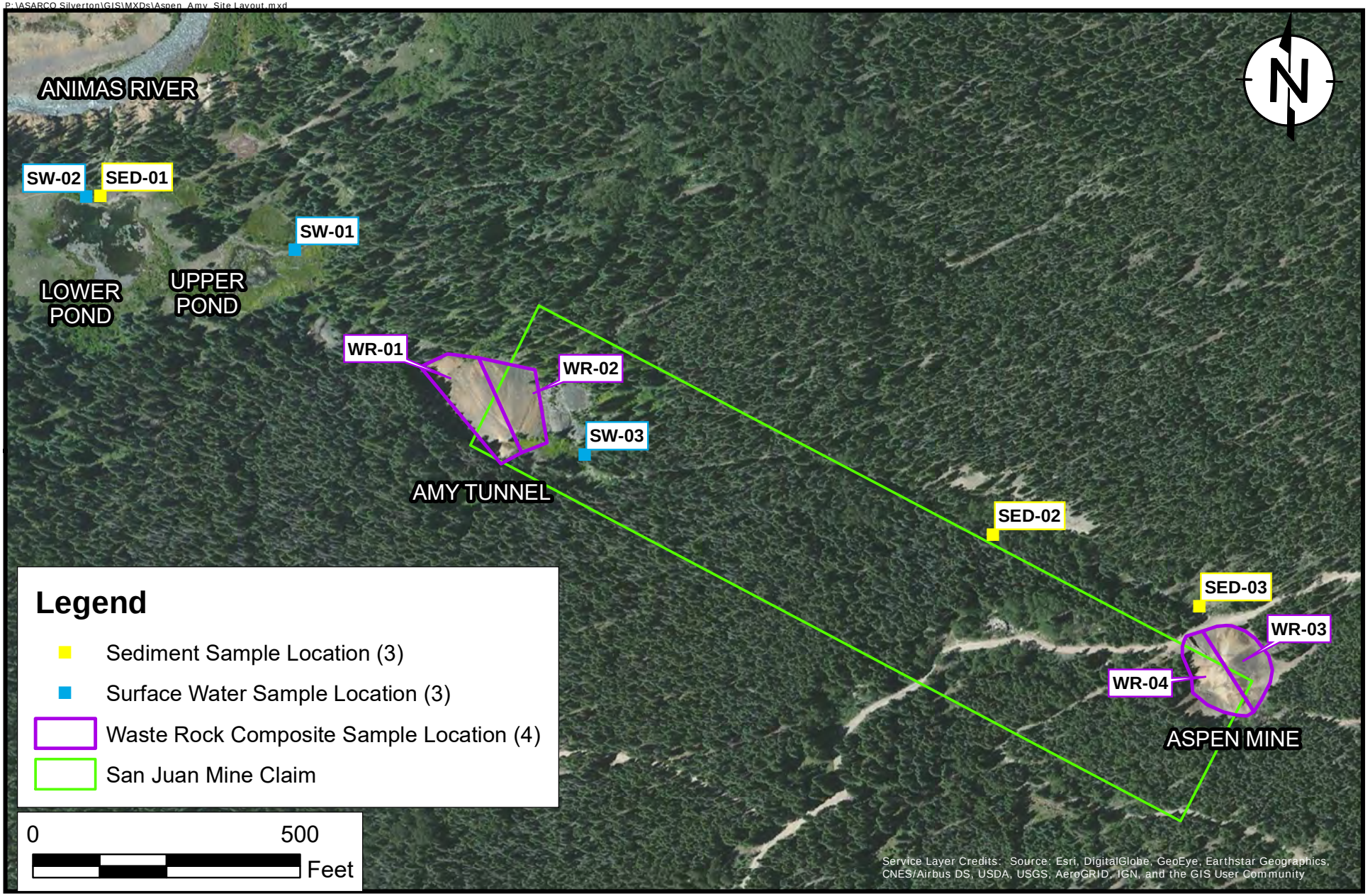
Approximate Location of Historic Mine Claims
Aspen Mine and Amy Tunnel Characterization
ASARCO Silverton
San Juan County, Colorado

FIGURE
2

DRAFTED BY: JLK | DATE: 1/2/2018

1690004977-004

P:\ASARCO Silverton\GIS\MXDs\Aspen_Amy_Site Layout.mxd



RAMBOLL

Approximate Sample Locations
Aspen Mine and Amy Tunnel Characterization
ASARCO Silverton
San Juan County, Colorado

FIGURE
3

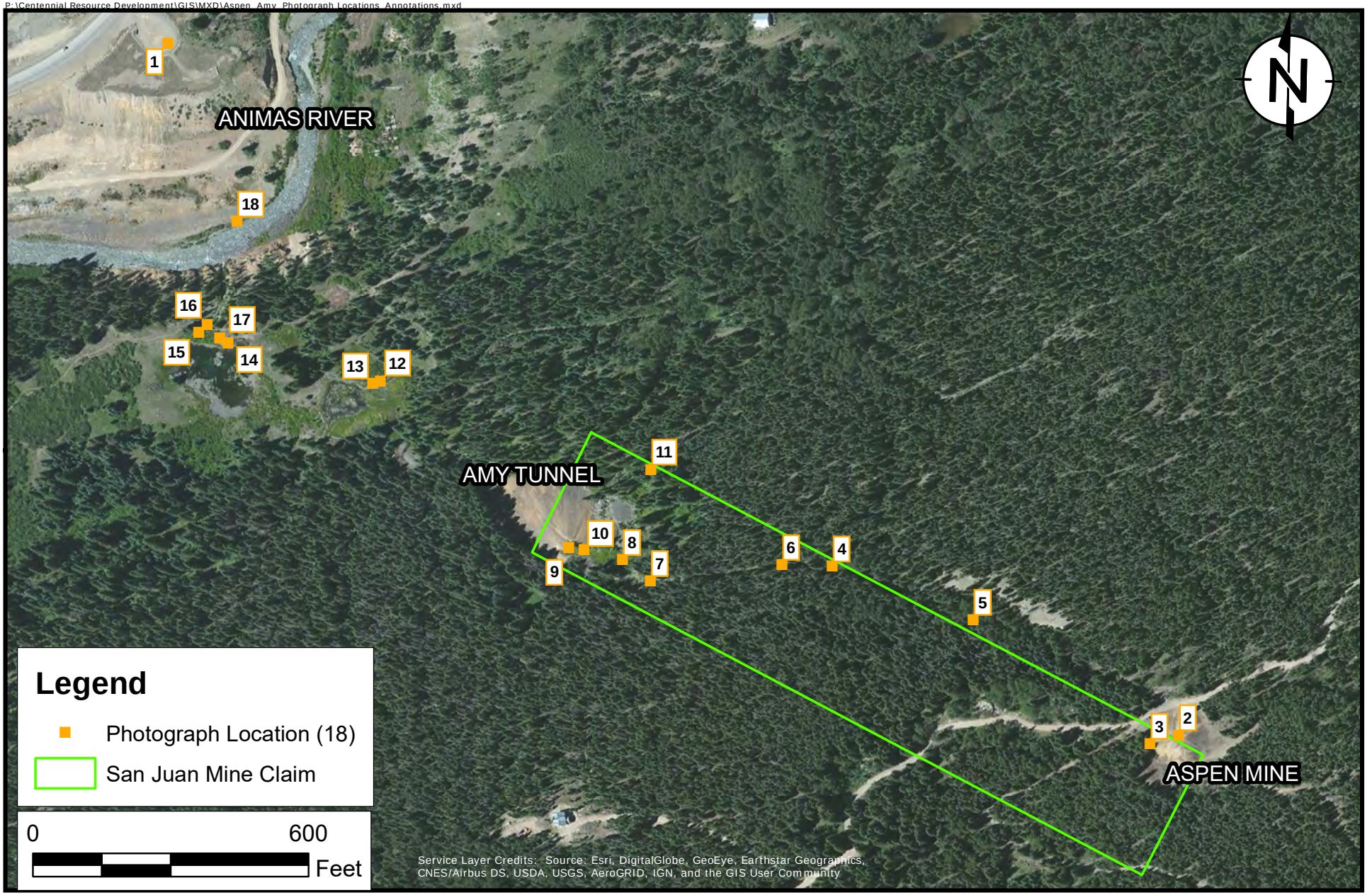
DRAFTED BY: JLK | DATE: 1/12/18

1690004977-004

Appendix A

Photograph Log

P:\Centennial Resource Development\GIS\MXD\Aspen_Amy_Photograph Locations_Annotations.mxd



RAMBOLL ENVIRON

DRAFTED BY: JLK | DATE: 1/2/18

Approximate Photograph Locations
Aspen Mine and Amy Tunnel Characterization
ASARCO Silverton
San Juan County, Colorado

FIGURE
A.1

1690004977-004

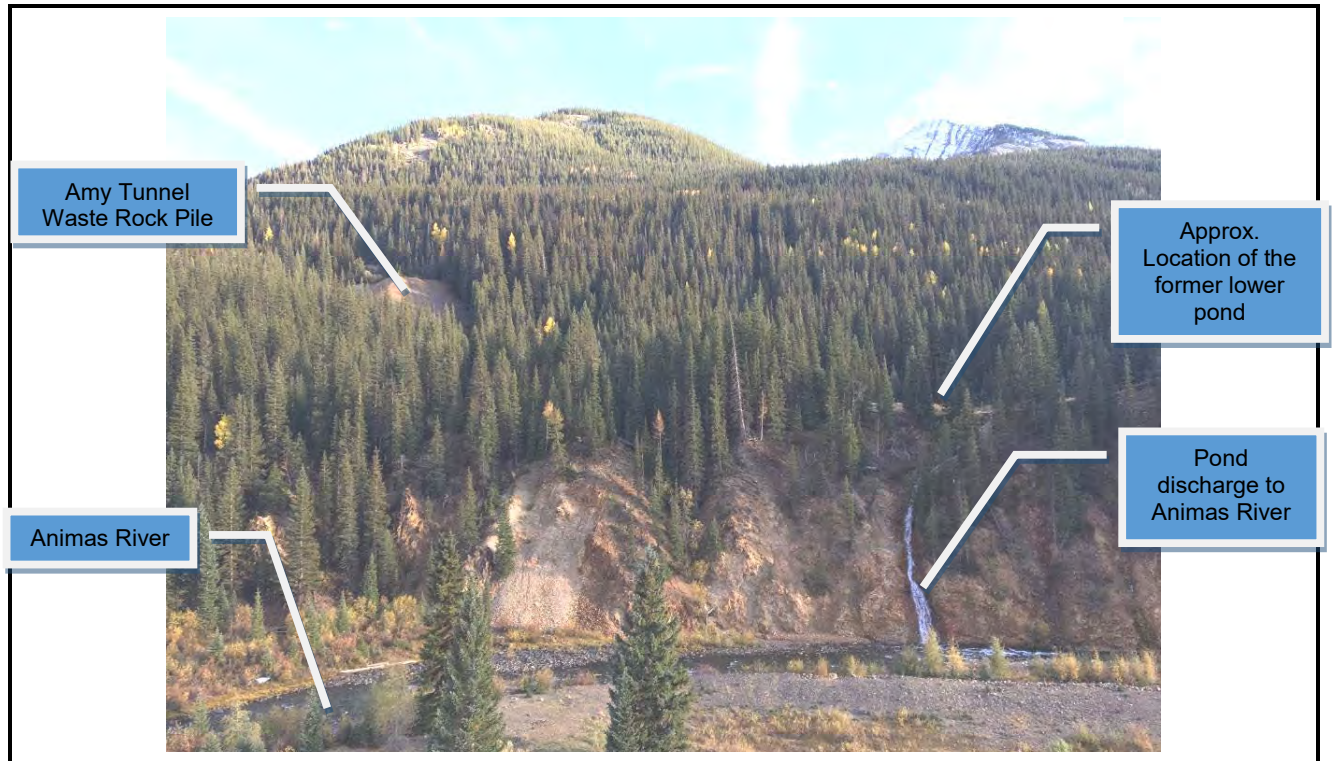


Photo 1: Looking south across the Animas River, Amy Tunnel waste rock pile visible on left side and lower pond on the right, above the confluence of the lower pond discharge with the Animas River

Photo 2: Aspen Mine waste rock pile with a historic mining structure and Bureau of Land Management access road

Photo 3: Aspen Mine waste rock pile

Photo 4: Overgrown mine access road from Aspen Mine towards SED-02

Photo 5: Location of SED-02, low point in dry drainage channel

Photo 6: Overgrown mine access road from Aspen Mine towards Amy Tunnel

Photo 7: Mine access road washed out from observable landslide, southeast of Amy Tunnel

Photo 8: Daylighting surface water from hillside, north of access road wash-out location

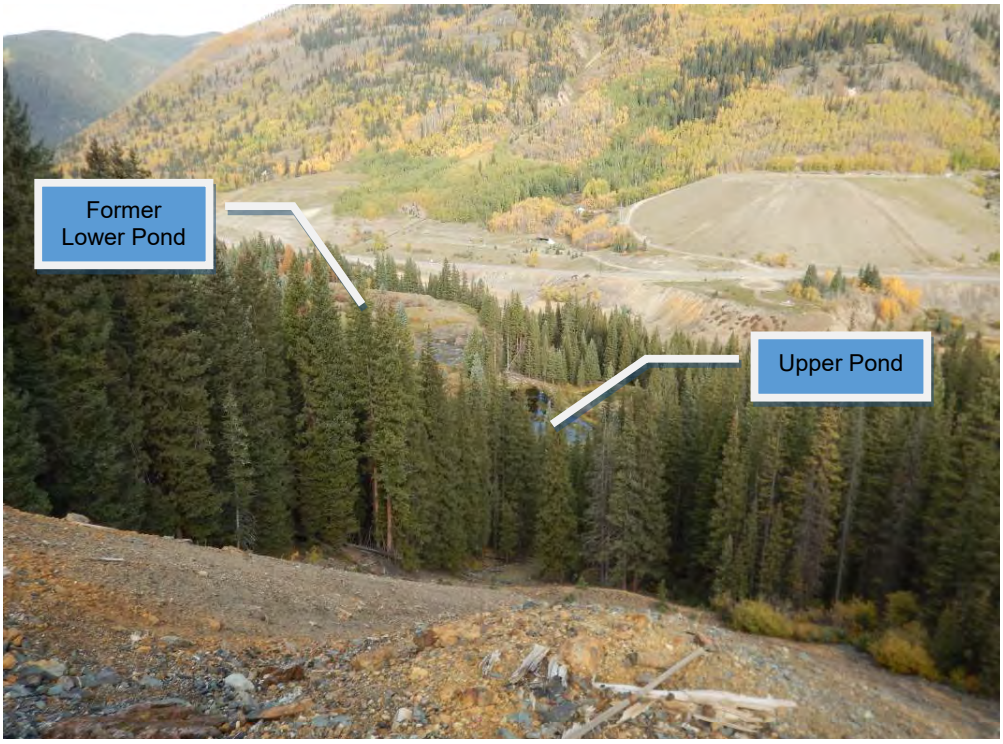


Photo 9: Amy Tunnel waste rock pile, with upper and lower pond seen downgradient

Photo 10: Amy Tunnel waste rock pile, surface water draining on eastern edge

Photo 11: Historic mine structure east of Amy Tunnel waste rock pile

Photo 12: Upper pond, location of SW-01

Photo 13: Upper pond, facing west towards lower pond

Photo 14: Lower pond, which no longer holds water due to beaver dam wash-out

Photo 15: Drainage of lower pond and washed-out beaver dam

Photo 16: Drainage of lower pond into the Animas River

Photo 17: SED-01 sample location, near the lower pond

Photo 18: Confluence of the lower pond discharge and the Animas River

Appendix B

Laboratory Analytical Report

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Revised Analytical Report

November 20, 2017

Report to:
Joshua Myers
Environ International Corp.
1560 Broadway
Suite 1905
Denver, CO 80202

Bill to:
Joshua Myers
Environ International Corp.
1560 Broadway
Suite 1905
Denver, CO 80202

Project ID:
ACZ Project ID: L40201

Joshua Myers:

Enclosed are revised analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 29, 2017 and originally reported on November 20, 2017. Refer to the case narrative for an explanation of the changes. This project was assigned to ACZ's project number, L40201. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L40201. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after December 20, 2017. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than $10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

Environ International Corp.

November 20, 2017

Project ID:
ACZ Project ID: L40201

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 6 miscellaneous samples from Environ International Corp. on September 29, 2017. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L40201. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for inorganic parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

This project has been revised to include a calculation for total hardness.

Environ International Corp.
Project ID:
Sample ID: SW-01-170927

ACZ Sample ID: ***L40201-01***
Date Sampled: *09/27/17 09:45*
Date Received: *09/29/17*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M200.2 ICP-MS								10/09/17 18:26	scp
Total Hot Plate Digestion	M200.2 ICP								10/06/17 16:24	dcm

Environ International Corp.
Project ID:
Sample ID: SW-01-170927

ACZ Sample ID: ***L40201-01***
Date Sampled: *09/27/17 09:45*
Date Received: *09/29/17*
Sample Matrix: *Surface Water*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1		U		mg/L	0.03	0.2	10/09/17 18:42	dcm
Aluminum, total	M200.7 ICP	1		U		mg/L	0.03	0.2	10/09/17 15:34	aeh
Antimony, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0004	0.002	10/11/17 18:29	mfm
Antimony, total	M200.8 ICP-MS	1		U	*	mg/L	0.0004	0.002	10/12/17 15:20	mfm
Arsenic, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0002	0.001	10/11/17 18:29	mfm
Arsenic, total	M200.8 ICP-MS	1	0.0003	B		mg/L	0.0002	0.001	10/12/17 15:20	mfm
Barium, dissolved	M200.7 ICP	1	0.028			mg/L	0.003	0.02	10/09/17 18:42	dcm
Barium, total	M200.7 ICP	1	0.024			mg/L	0.003	0.02	10/09/17 15:34	aeh
Beryllium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/11/17 18:29	mfm
Beryllium, total	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/12/17 15:20	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.0031			mg/L	0.0001	0.0005	10/11/17 18:29	mfm
Cadmium, total	M200.8 ICP-MS	1	0.0036			mg/L	0.0001	0.0005	10/12/17 15:20	mfm
Calcium, dissolved	M200.7 ICP	1	154			mg/L	0.1	0.5	10/09/17 18:42	dcm
Calcium, total	M200.7 ICP	1	158			mg/L	0.1	0.5	10/09/17 15:34	aeh
Chromium, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 18:42	dcm
Chromium, total	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 15:34	aeh
Cobalt, dissolved	M200.7 ICP	1	0.01	B		mg/L	0.01	0.05	10/10/17 10:06	aeh
Cobalt, total	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 15:34	aeh
Copper, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 18:42	dcm
Copper, total	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 15:34	aeh
Iron, dissolved	M200.7 ICP	1		U		mg/L	0.02	0.05	10/09/17 18:42	dcm
Iron, total	M200.7 ICP	1		U		mg/L	0.02	0.05	10/09/17 15:34	aeh
Lead, dissolved	M200.8 ICP-MS	1	0.0002	B		mg/L	0.0001	0.0005	10/11/17 18:29	mfm
Lead, total	M200.8 ICP-MS	1	0.0005			mg/L	0.0001	0.0005	10/12/17 15:20	mfm
Magnesium, dissolved	M200.7 ICP	1	2.7			mg/L	0.2	1	10/09/17 18:42	dcm
Magnesium, total	M200.7 ICP	1	2.7			mg/L	0.2	1	10/09/17 15:34	aeh
Manganese, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	10/09/17 18:42	dcm
Manganese, total	M200.7 ICP	1		U		mg/L	0.005	0.03	10/09/17 15:34	aeh
Mercury, dissolved	M245.1 CVAA	1		U		mg/L	0.0002	0.001	10/10/17 17:09	sck
Mercury, total	M245.1 CVAA	1		U		mg/L	0.0002	0.001	10/11/17 10:43	sck
Nickel, dissolved	M200.7 ICP	1		U		mg/L	0.008	0.04	10/09/17 18:42	dcm
Nickel, total	M200.7 ICP	1		U		mg/L	0.008	0.04	10/09/17 15:34	aeh
Potassium, dissolved	M200.7 ICP	1	0.5	B		mg/L	0.2	1	10/09/17 18:42	dcm
Potassium, total	M200.7 ICP	1	0.5	B		mg/L	0.2	1	10/09/17 15:34	aeh
Selenium, dissolved	M200.8 ICP-MS	1	0.0013			mg/L	0.0001	0.0003	10/11/17 18:29	mfm
Selenium, total	M200.8 ICP-MS	1	0.0015			mg/L	0.0001	0.0003	10/12/17 15:20	mfm
Silver, dissolved	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/11/17 18:29	mfm
Silver, total	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/16/17 12:45	bsu
Sodium, dissolved	M200.7 ICP	1	3.4			mg/L	0.2	1	10/09/17 18:42	dcm
Sodium, total	M200.7 ICP	1	3.5			mg/L	0.2	1	10/09/17 15:34	aeh
Thallium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	10/11/17 18:29	mfm
Thallium, total	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	10/12/17 15:20	mfm
Vanadium, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	10/09/17 18:42	dcm

Environ International Corp.
Project ID:
Sample ID: SW-01-170927

ACZ Sample ID: ***L40201-01***
Date Sampled: *09/27/17 09:45*
Date Received: *09/29/17*
Sample Matrix: *Surface Water*

Vanadium, total	M200.7 ICP	1		U		mg/L	0.005	0.03	10/09/17 15:34	aeh
Zinc, dissolved	M200.7 ICP	1	0.49			mg/L	0.01	0.05	10/09/17 18:42	dcm
Zinc, total	M200.7 ICP	1	0.49			mg/L	0.01	0.05	10/09/17 15:34	aeh

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	69.4			mg/L	2	20	10/04/17 0:00	emk
Carbonate as CaCO3		1		U		mg/L	2	20	10/04/17 0:00	emk
Hydroxide as CaCO3		1		U		mg/L	2	20	10/04/17 0:00	emk
Total Alkalinity		1	69.4			mg/L	2	20	10/04/17 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-4.1			%			11/20/17 0:00	calc
Sum of Anions			8.8			meq/L			11/20/17 0:00	calc
Sum of Cations			8.1			meq/L			11/20/17 0:00	calc
Chloride	SM4500Cl-E	1	0.6	B	*	mg/L	0.5	2	10/09/17 11:03	las
Hardness as CaCO3 (total)	SM2340B - Calculation		406			mg/L	0.2	5	11/20/17 0:00	calc
Lab Filtration (0.45um filter)	SOPWC050	1							10/07/17 12:20	emk
Lab Filtration (0.45um) & Acidification	M200.7/200.8/3005A	1							10/06/17 17:25	sck
pH (lab)	SM4500H+ B									
pH		1	8.1	H		units	0.1	0.1	10/04/17 0:00	emk
pH measured at		1	22.4			C	0.1	0.1	10/04/17 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	588			mg/L	10	20	10/03/17 11:43	ecc
Sulfate	D516-02/-07 - Turbidimetric	20	350		*	mg/L	20	100	10/18/17 12:10	las
TDS (calculated)	Calculation		554			mg/L			11/20/17 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.06						11/20/17 0:00	calc

Environ International Corp.
Project ID:
Sample ID: SW-02-170927

ACZ Sample ID: ***L40201-02***
Date Sampled: *09/27/17 10:30*
Date Received: *09/29/17*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M200.2 ICP								10/06/17 16:36	dcm
Total Hot Plate Digestion	M200.2 ICP-MS								10/09/17 18:37	scp

Environ International Corp.
Project ID:
Sample ID: SW-02-170927

ACZ Sample ID: ***L40201-02***
Date Sampled: *09/27/17 10:30*
Date Received: *09/29/17*
Sample Matrix: *Surface Water*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1		U		mg/L	0.03	0.2	10/09/17 18:45	dcm
Aluminum, total	M200.7 ICP	1	0.06	B		mg/L	0.03	0.2	10/09/17 15:38	aeh
Antimony, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0004	0.002	10/11/17 18:45	mfm
Antimony, total	M200.8 ICP-MS	1		U	*	mg/L	0.0004	0.002	10/12/17 15:24	mfm
Arsenic, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0002	0.001	10/11/17 18:45	mfm
Arsenic, total	M200.8 ICP-MS	1	0.0003	B		mg/L	0.0002	0.001	10/12/17 15:24	mfm
Barium, dissolved	M200.7 ICP	1	0.025			mg/L	0.003	0.02	10/09/17 18:45	dcm
Barium, total	M200.7 ICP	1	0.020			mg/L	0.003	0.02	10/09/17 15:38	aeh
Beryllium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/11/17 18:45	mfm
Beryllium, total	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/12/17 15:24	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.0027			mg/L	0.0001	0.0005	10/11/17 18:45	mfm
Cadmium, total	M200.8 ICP-MS	1	0.0041			mg/L	0.0001	0.0005	10/12/17 15:24	mfm
Calcium, dissolved	M200.7 ICP	1	154			mg/L	0.1	0.5	10/09/17 18:45	dcm
Calcium, total	M200.7 ICP	1	151			mg/L	0.1	0.5	10/09/17 15:38	aeh
Chromium, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 18:45	dcm
Chromium, total	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 15:38	aeh
Cobalt, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	10/10/17 10:09	aeh
Cobalt, total	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 15:38	aeh
Copper, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 18:45	dcm
Copper, total	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 15:38	aeh
Iron, dissolved	M200.7 ICP	1	0.04	B		mg/L	0.02	0.05	10/09/17 18:45	dcm
Iron, total	M200.7 ICP	1	0.09			mg/L	0.02	0.05	10/09/17 15:38	aeh
Lead, dissolved	M200.8 ICP-MS	1	0.0002	B		mg/L	0.0001	0.0005	10/11/17 18:45	mfm
Lead, total	M200.8 ICP-MS	1	0.0023			mg/L	0.0001	0.0005	10/12/17 15:24	mfm
Magnesium, dissolved	M200.7 ICP	1	2.8			mg/L	0.2	1	10/09/17 18:45	dcm
Magnesium, total	M200.7 ICP	1	2.7			mg/L	0.2	1	10/09/17 15:38	aeh
Manganese, dissolved	M200.7 ICP	1	0.024	B		mg/L	0.005	0.03	10/09/17 18:45	dcm
Manganese, total	M200.7 ICP	1	0.020	B		mg/L	0.005	0.03	10/09/17 15:38	aeh
Mercury, dissolved	M245.1 CVAA	1		U		mg/L	0.0002	0.001	10/10/17 17:12	sck
Mercury, total	M245.1 CVAA	1		U		mg/L	0.0002	0.001	10/11/17 10:44	sck
Nickel, dissolved	M200.7 ICP	1		U		mg/L	0.008	0.04	10/09/17 18:45	dcm
Nickel, total	M200.7 ICP	1		U		mg/L	0.008	0.04	10/09/17 15:38	aeh
Potassium, dissolved	M200.7 ICP	1	0.4	B		mg/L	0.2	1	10/09/17 18:45	dcm
Potassium, total	M200.7 ICP	1	0.5	B		mg/L	0.2	1	10/09/17 15:38	aeh
Selenium, dissolved	M200.8 ICP-MS	1	0.0012			mg/L	0.0001	0.0003	10/11/17 18:45	mfm
Selenium, total	M200.8 ICP-MS	1	0.0013			mg/L	0.0001	0.0003	10/12/17 15:24	mfm
Silver, dissolved	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/11/17 18:45	mfm
Silver, total	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/16/17 12:48	bsu
Sodium, dissolved	M200.7 ICP	1	3.6			mg/L	0.2	1	10/09/17 18:45	dcm
Sodium, total	M200.7 ICP	1	3.5			mg/L	0.2	1	10/09/17 15:38	aeh
Thallium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	10/11/17 18:45	mfm
Thallium, total	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	10/12/17 15:24	mfm
Vanadium, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	10/09/17 18:45	dcm

Environ International Corp.
Project ID:
Sample ID: SW-02-170927

ACZ Sample ID: ***L40201-02***
Date Sampled: *09/27/17 10:30*
Date Received: *09/29/17*
Sample Matrix: *Surface Water*

Vanadium, total	M200.7 ICP	1		U		mg/L	0.005	0.03	10/09/17 15:38	aeh
Zinc, dissolved	M200.7 ICP	1	0.55			mg/L	0.01	0.05	10/09/17 18:45	dcm
Zinc, total	M200.7 ICP	1	0.54			mg/L	0.01	0.05	10/09/17 15:38	aeh

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	50.0			mg/L	2	20	10/04/17 0:00	emk
Carbonate as CaCO3		1		U		mg/L	2	20	10/04/17 0:00	emk
Hydroxide as CaCO3		1		U		mg/L	2	20	10/04/17 0:00	emk
Total Alkalinity		1	50.0			mg/L	2	20	10/04/17 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-2.4			%			11/20/17 0:00	calc
Sum of Anions			8.5			meq/L			11/20/17 0:00	calc
Sum of Cations			8.1			meq/L			11/20/17 0:00	calc
Chloride	SM4500Cl-E	1		U	*	mg/L	0.5	2	10/09/17 11:03	las
Hardness as CaCO3 (total)	SM2340B - Calculation		388			mg/L	0.2	5	11/20/17 0:00	calc
pH (lab)	SM4500H+ B									
pH		1	7.9	H		units	0.1	0.1	10/04/17 0:00	emk
pH measured at		1	22.4			C	0.1	0.1	10/04/17 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	580			mg/L	10	20	10/03/17 11:49	ecc
Sulfate	D516-02/-07 - Turbidimetric	20	356		*	mg/L	20	100	10/18/17 12:10	las
TDS (calculated)	Calculation		548			mg/L			11/20/17 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.06						11/20/17 0:00	calc

Environ International Corp.
Project ID:
Sample ID: SW-02-170927(MS/MSD)

ACZ Sample ID: ***L40201-03***
Date Sampled: *09/27/17 10:30*
Date Received: *09/29/17*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M200.2 ICP-MS								10/09/17 19:09	scp
Total Hot Plate Digestion	M200.2 ICP								10/06/17 16:48	dcm

Environ International Corp.
Project ID:
Sample ID: SW-02-170927(MS/MSD)

ACZ Sample ID: ***L40201-03***
Date Sampled: *09/27/17 10:30*
Date Received: *09/29/17*
Sample Matrix: *Surface Water*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1		U		mg/L	0.03	0.2	10/09/17 18:48	dcm
Aluminum, total	M200.7 ICP	1	0.05	B		mg/L	0.03	0.2	10/09/17 15:41	aeh
Antimony, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0004	0.002	10/11/17 18:48	mfm
Antimony, total	M200.8 ICP-MS	1		U	*	mg/L	0.0004	0.002	10/12/17 15:39	mfm
Arsenic, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0002	0.001	10/11/17 18:48	mfm
Arsenic, total	M200.8 ICP-MS	1	0.0003	B		mg/L	0.0002	0.001	10/12/17 15:39	mfm
Barium, dissolved	M200.7 ICP	1	0.024			mg/L	0.003	0.02	10/09/17 18:48	dcm
Barium, total	M200.7 ICP	1	0.021			mg/L	0.003	0.02	10/09/17 15:41	aeh
Beryllium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/11/17 18:48	mfm
Beryllium, total	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/12/17 15:39	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.0028			mg/L	0.0001	0.0005	10/11/17 18:48	mfm
Cadmium, total	M200.8 ICP-MS	1	0.004			mg/L	0.0001	0.0005	10/12/17 15:39	mfm
Calcium, dissolved	M200.7 ICP	1	153			mg/L	0.1	0.5	10/09/17 18:48	dcm
Calcium, total	M200.7 ICP	1	154			mg/L	0.1	0.5	10/09/17 15:41	aeh
Chromium, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 18:48	dcm
Chromium, total	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 15:41	aeh
Cobalt, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	10/10/17 10:13	aeh
Cobalt, total	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 15:41	aeh
Copper, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 18:48	dcm
Copper, total	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 15:41	aeh
Iron, dissolved	M200.7 ICP	1	0.04	B		mg/L	0.02	0.05	10/09/17 18:48	dcm
Iron, total	M200.7 ICP	1	0.09			mg/L	0.02	0.05	10/09/17 15:41	aeh
Lead, dissolved	M200.8 ICP-MS	1	0.0002	B		mg/L	0.0001	0.0005	10/11/17 18:48	mfm
Lead, total	M200.8 ICP-MS	1	0.0022			mg/L	0.0001	0.0005	10/12/17 15:39	mfm
Magnesium, dissolved	M200.7 ICP	1	2.8			mg/L	0.2	1	10/09/17 18:48	dcm
Magnesium, total	M200.7 ICP	1	2.8			mg/L	0.2	1	10/09/17 15:41	aeh
Manganese, dissolved	M200.7 ICP	1	0.024	B		mg/L	0.005	0.03	10/09/17 18:48	dcm
Manganese, total	M200.7 ICP	1	0.020	B		mg/L	0.005	0.03	10/09/17 15:41	aeh
Mercury, dissolved	M245.1 CVAA	1		U		mg/L	0.0002	0.001	10/10/17 17:13	sck
Mercury, total	M245.1 CVAA	1		U		mg/L	0.0002	0.001	10/11/17 10:45	sck
Nickel, dissolved	M200.7 ICP	1		U		mg/L	0.008	0.04	10/09/17 18:48	dcm
Nickel, total	M200.7 ICP	1		U		mg/L	0.008	0.04	10/09/17 15:41	aeh
Potassium, dissolved	M200.7 ICP	1	0.4	B		mg/L	0.2	1	10/09/17 18:48	dcm
Potassium, total	M200.7 ICP	1	0.5	B		mg/L	0.2	1	10/09/17 15:41	aeh
Selenium, dissolved	M200.8 ICP-MS	1	0.0013			mg/L	0.0001	0.0003	10/11/17 18:48	mfm
Selenium, total	M200.8 ICP-MS	1	0.0014			mg/L	0.0001	0.0003	10/12/17 15:39	mfm
Silver, dissolved	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/11/17 18:48	mfm
Silver, total	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/16/17 13:02	bsu
Sodium, dissolved	M200.7 ICP	1	3.6			mg/L	0.2	1	10/09/17 18:48	dcm
Sodium, total	M200.7 ICP	1	3.6			mg/L	0.2	1	10/09/17 15:41	aeh
Thallium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	10/11/17 18:48	mfm
Thallium, total	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	10/12/17 15:39	mfm
Vanadium, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	10/09/17 18:48	dcm

Environ International Corp.
Project ID:
Sample ID: SW-02-170927(MS/MSD)

ACZ Sample ID: ***L40201-03***
Date Sampled: *09/27/17 10:30*
Date Received: *09/29/17*
Sample Matrix: *Surface Water*

Vanadium, total	M200.7 ICP	1		U		mg/L	0.005	0.03	10/09/17 15:41	aeh
Zinc, dissolved	M200.7 ICP	1	0.55			mg/L	0.01	0.05	10/09/17 18:48	dcm
Zinc, total	M200.7 ICP	1	0.55			mg/L	0.01	0.05	10/09/17 15:41	aeh

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	49.0			mg/L	2	20	10/04/17 0:00	emk
Carbonate as CaCO3		1		U		mg/L	2	20	10/04/17 0:00	emk
Hydroxide as CaCO3		1		U		mg/L	2	20	10/04/17 0:00	emk
Total Alkalinity		1	49.0			mg/L	2	20	10/04/17 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-2.4			%			11/20/17 0:00	calc
Sum of Anions			8.5			meq/L			11/20/17 0:00	calc
Sum of Cations			8.1			meq/L			11/20/17 0:00	calc
Chloride	SM4500Cl-E	1	0.6	B		mg/L	0.5	2	10/09/17 11:03	las
Hardness as CaCO3 (total)	SM2340B - Calculation		396			mg/L	0.2	5	11/20/17 0:00	calc
pH (lab)	SM4500H+ B									
pH		1	7.8	H		units	0.1	0.1	10/04/17 0:00	emk
pH measured at		1	22.4			C	0.1	0.1	10/04/17 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	576			mg/L	10	20	10/03/17 11:51	ecc
Sulfate	D516-02/-07 - Turbidimetric	20	358		*	mg/L	20	100	10/18/17 12:11	las
TDS (calculated)	Calculation		549			mg/L			11/20/17 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.05						11/20/17 0:00	calc

Environ International Corp.
Project ID:
Sample ID: SW-02-170927(MS/MSD)

ACZ Sample ID: ***L40201-04***
Date Sampled: *09/27/17 10:30*
Date Received: *09/29/17*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M200.2 ICP-MS								10/09/17 19:20	scp
Total Hot Plate Digestion	M200.2 ICP								10/06/17 17:24	dcm

Environ International Corp.
Project ID:
Sample ID: SW-02-170927(MS/MSD)

ACZ Sample ID: ***L40201-04***
Date Sampled: *09/27/17 10:30*
Date Received: *09/29/17*
Sample Matrix: *Surface Water*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1		U		mg/L	0.03	0.2	10/09/17 18:51	dcm
Aluminum, total	M200.7 ICP	1	0.05	B		mg/L	0.03	0.2	10/09/17 15:50	aeh
Antimony, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0004	0.002	10/11/17 18:51	mfm
Antimony, total	M200.8 ICP-MS	1		U	*	mg/L	0.0004	0.002	10/12/17 15:42	mfm
Arsenic, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0002	0.001	10/11/17 18:51	mfm
Arsenic, total	M200.8 ICP-MS	1	0.0003	B		mg/L	0.0002	0.001	10/12/17 15:42	mfm
Barium, dissolved	M200.7 ICP	1	0.024			mg/L	0.003	0.02	10/09/17 18:51	dcm
Barium, total	M200.7 ICP	1	0.021			mg/L	0.003	0.02	10/09/17 15:50	aeh
Beryllium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/11/17 18:51	mfm
Beryllium, total	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/12/17 15:42	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.0027			mg/L	0.0001	0.0005	10/11/17 18:51	mfm
Cadmium, total	M200.8 ICP-MS	1	0.0041			mg/L	0.0001	0.0005	10/12/17 15:42	mfm
Calcium, dissolved	M200.7 ICP	1	152			mg/L	0.1	0.5	10/09/17 18:51	dcm
Calcium, total	M200.7 ICP	1	154			mg/L	0.1	0.5	10/09/17 15:50	aeh
Chromium, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 18:51	dcm
Chromium, total	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 15:50	aeh
Cobalt, dissolved	M200.7 ICP	1	0.02	B		mg/L	0.01	0.05	10/10/17 10:16	aeh
Cobalt, total	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 15:50	aeh
Copper, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 18:51	dcm
Copper, total	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 15:50	aeh
Iron, dissolved	M200.7 ICP	1	0.04	B		mg/L	0.02	0.05	10/09/17 18:51	dcm
Iron, total	M200.7 ICP	1	0.09			mg/L	0.02	0.05	10/09/17 15:50	aeh
Lead, dissolved	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0005	10/11/17 18:51	mfm
Lead, total	M200.8 ICP-MS	1	0.0021			mg/L	0.0001	0.0005	10/12/17 15:42	mfm
Magnesium, dissolved	M200.7 ICP	1	2.8			mg/L	0.2	1	10/09/17 18:51	dcm
Magnesium, total	M200.7 ICP	1	2.8			mg/L	0.2	1	10/09/17 15:50	aeh
Manganese, dissolved	M200.7 ICP	1	0.024	B		mg/L	0.005	0.03	10/09/17 18:51	dcm
Manganese, total	M200.7 ICP	1	0.020	B		mg/L	0.005	0.03	10/09/17 15:50	aeh
Mercury, dissolved	M245.1 CVAA	1		U		mg/L	0.0002	0.001	10/10/17 17:14	sck
Mercury, total	M245.1 CVAA	1		U		mg/L	0.0002	0.001	10/11/17 10:46	sck
Nickel, dissolved	M200.7 ICP	1		U		mg/L	0.008	0.04	10/09/17 18:51	dcm
Nickel, total	M200.7 ICP	1		U		mg/L	0.008	0.04	10/09/17 15:50	aeh
Potassium, dissolved	M200.7 ICP	1	0.4	B		mg/L	0.2	1	10/09/17 18:51	dcm
Potassium, total	M200.7 ICP	1	0.4	B		mg/L	0.2	1	10/09/17 15:50	aeh
Selenium, dissolved	M200.8 ICP-MS	1	0.0012			mg/L	0.0001	0.0003	10/11/17 18:51	mfm
Selenium, total	M200.8 ICP-MS	1	0.0013			mg/L	0.0001	0.0003	10/12/17 15:42	mfm
Silver, dissolved	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/11/17 18:51	mfm
Silver, total	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/16/17 13:04	bsu
Sodium, dissolved	M200.7 ICP	1	3.5			mg/L	0.2	1	10/09/17 18:51	dcm
Sodium, total	M200.7 ICP	1	3.6			mg/L	0.2	1	10/09/17 15:50	aeh
Thallium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	10/11/17 18:51	mfm
Thallium, total	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	10/12/17 15:42	mfm
Vanadium, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	10/09/17 18:51	dcm

Environ International Corp.
Project ID:
Sample ID: SW-02-170927(MS/MSD)

ACZ Sample ID: ***L40201-04***
Date Sampled: *09/27/17 10:30*
Date Received: *09/29/17*
Sample Matrix: *Surface Water*

Vanadium, total	M200.7 ICP	1		U		mg/L	0.005	0.03	10/09/17 15:50	aeh
Zinc, dissolved	M200.7 ICP	1	0.55			mg/L	0.01	0.05	10/09/17 18:51	dcm
Zinc, total	M200.7 ICP	1	0.55			mg/L	0.01	0.05	10/09/17 15:50	aeh

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	49.7			mg/L	2	20	10/04/17 0:00	emk
Carbonate as CaCO3		1		U		mg/L	2	20	10/04/17 0:00	emk
Hydroxide as CaCO3		1		U		mg/L	2	20	10/04/17 0:00	emk
Total Alkalinity		1	49.7			mg/L	2	20	10/04/17 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-3.0			%			11/20/17 0:00	calc
Sum of Anions			8.5			meq/L			11/20/17 0:00	calc
Sum of Cations			8.0			meq/L			11/20/17 0:00	calc
Chloride	SM4500Cl-E	1		U		mg/L	0.5	2	10/09/17 11:03	las
Hardness as CaCO3 (total)	SM2340B - Calculation		396			mg/L	0.2	5	11/20/17 0:00	calc
pH (lab)	SM4500H+ B									
pH		1	7.8	H		units	0.1	0.1	10/04/17 0:00	emk
pH measured at		1	22.4			C	0.1	0.1	10/04/17 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	580			mg/L	10	20	10/03/17 11:54	ecc
Sulfate	D516-02/-07 - Turbidimetric	20	358		*	mg/L	20	100	10/18/17 12:11	las
TDS (calculated)	Calculation		548			mg/L			11/20/17 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.06						11/20/17 0:00	calc

Environ International Corp.
Project ID:
Sample ID: SW-03-170927

ACZ Sample ID: ***L40201-05***
Date Sampled: *09/27/17 11:55*
Date Received: *09/29/17*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M200.2 ICP-MS								10/09/17 19:31	scp
Total Hot Plate Digestion	M200.2 ICP								10/06/17 17:36	dcm

Environ International Corp.
Project ID:
Sample ID: SW-03-170927

ACZ Sample ID: ***L40201-05***
Date Sampled: *09/27/17 11:55*
Date Received: *09/29/17*
Sample Matrix: *Surface Water*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1		U		mg/L	0.03	0.2	10/09/17 19:07	dcm
Aluminum, total	M200.7 ICP	1		U		mg/L	0.03	0.2	10/09/17 15:54	aeh
Antimony, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0004	0.002	10/11/17 18:55	mfm
Antimony, total	M200.8 ICP-MS	1		U	*	mg/L	0.0004	0.002	10/12/17 15:45	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.0003	B		mg/L	0.0002	0.001	10/11/17 18:55	mfm
Arsenic, total	M200.8 ICP-MS	1	0.0005	B		mg/L	0.0002	0.001	10/12/17 15:45	mfm
Barium, dissolved	M200.7 ICP	1	0.019	B		mg/L	0.003	0.02	10/09/17 19:07	dcm
Barium, total	M200.7 ICP	1	0.015	B		mg/L	0.003	0.02	10/09/17 15:54	aeh
Beryllium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/11/17 18:55	mfm
Beryllium, total	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/12/17 15:45	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.0028			mg/L	0.0001	0.0005	10/11/17 18:55	mfm
Cadmium, total	M200.8 ICP-MS	1	0.0032			mg/L	0.0001	0.0005	10/12/17 15:45	mfm
Calcium, dissolved	M200.7 ICP	1	158			mg/L	0.1	0.5	10/09/17 19:07	dcm
Calcium, total	M200.7 ICP	1	158			mg/L	0.1	0.5	10/09/17 15:54	aeh
Chromium, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 19:07	dcm
Chromium, total	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 15:54	aeh
Cobalt, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	10/10/17 10:25	aeh
Cobalt, total	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 15:54	aeh
Copper, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 19:07	dcm
Copper, total	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 15:54	aeh
Iron, dissolved	M200.7 ICP	1		U		mg/L	0.02	0.05	10/09/17 19:07	dcm
Iron, total	M200.7 ICP	1		U		mg/L	0.02	0.05	10/09/17 15:54	aeh
Lead, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	10/11/17 18:55	mfm
Lead, total	M200.8 ICP-MS	1	0.0003	B		mg/L	0.0001	0.0005	10/12/17 15:45	mfm
Magnesium, dissolved	M200.7 ICP	1	2.5			mg/L	0.2	1	10/09/17 19:07	dcm
Magnesium, total	M200.7 ICP	1	2.4			mg/L	0.2	1	10/09/17 15:54	aeh
Manganese, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	10/09/17 19:07	dcm
Manganese, total	M200.7 ICP	1		U		mg/L	0.005	0.03	10/09/17 15:54	aeh
Mercury, dissolved	M245.1 CVAA	1		U		mg/L	0.0002	0.001	10/10/17 17:16	sck
Mercury, total	M245.1 CVAA	1		U		mg/L	0.0002	0.001	10/11/17 10:51	sck
Nickel, dissolved	M200.7 ICP	1		U		mg/L	0.008	0.04	10/09/17 19:07	dcm
Nickel, total	M200.7 ICP	1		U		mg/L	0.008	0.04	10/09/17 15:54	aeh
Potassium, dissolved	M200.7 ICP	1	0.5	B		mg/L	0.2	1	10/09/17 19:07	dcm
Potassium, total	M200.7 ICP	1	0.4	B		mg/L	0.2	1	10/09/17 15:54	aeh
Selenium, dissolved	M200.8 ICP-MS	1	0.0015			mg/L	0.0001	0.0003	10/11/17 18:55	mfm
Selenium, total	M200.8 ICP-MS	1	0.0016			mg/L	0.0001	0.0003	10/12/17 15:45	mfm
Silver, dissolved	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/11/17 18:55	mfm
Silver, total	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/16/17 13:07	bsu
Sodium, dissolved	M200.7 ICP	1	3.5			mg/L	0.2	1	10/09/17 19:07	dcm
Sodium, total	M200.7 ICP	1	3.5			mg/L	0.2	1	10/09/17 15:54	aeh
Thallium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	10/11/17 18:55	mfm
Thallium, total	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	10/12/17 15:45	mfm
Vanadium, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	10/09/17 19:07	dcm

Environ International Corp.
Project ID:
Sample ID: SW-03-170927

ACZ Sample ID: ***L40201-05***
Date Sampled: *09/27/17 11:55*
Date Received: *09/29/17*
Sample Matrix: *Surface Water*

Vanadium, total	M200.7 ICP	1		U		mg/L	0.005	0.03	10/09/17 15:54	aeh
Zinc, dissolved	M200.7 ICP	1	0.56			mg/L	0.01	0.05	10/09/17 19:07	dcm
Zinc, total	M200.7 ICP	1	0.53			mg/L	0.01	0.05	10/09/17 15:54	aeh

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	51.0			mg/L	2	20	10/04/17 0:00	emk
Carbonate as CaCO3		1		U		mg/L	2	20	10/04/17 0:00	emk
Hydroxide as CaCO3		1		U		mg/L	2	20	10/04/17 0:00	emk
Total Alkalinity		1	51.0			mg/L	2	20	10/04/17 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-2.4			%			11/20/17 0:00	calc
Sum of Anions			8.7			meq/L			11/20/17 0:00	calc
Sum of Cations			8.3			meq/L			11/20/17 0:00	calc
Chloride	SM4500Cl-E	1		U		mg/L	0.5	2	10/09/17 11:27	las
Hardness as CaCO3 (total)	SM2340B - Calculation		404			mg/L	0.2	5	11/20/17 0:00	calc
pH (lab)	SM4500H+ B									
pH		1	7.8	H		units	0.1	0.1	10/04/17 0:00	emk
pH measured at		1	22.3			C	0.1	0.1	10/04/17 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	588			mg/L	10	20	10/03/17 11:56	ecc
Sulfate	D516-02/-07 - Turbidimetric	20	365		*	mg/L	20	100	10/18/17 12:11	las
TDS (calculated)	Calculation		561			mg/L			11/20/17 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.05						11/20/17 0:00	calc

Environ International Corp.
Project ID:
Sample ID: SW-03-170927-FD

ACZ Sample ID: ***L40201-06***
Date Sampled: *09/27/17 12:55*
Date Received: *09/29/17*
Sample Matrix: *Surface Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M200.2 ICP								10/06/17 17:48	dcm
Total Hot Plate Digestion	M200.2 ICP-MS								10/09/17 19:42	scp

Environ International Corp.
Project ID:
Sample ID: SW-03-170927-FD

ACZ Sample ID: ***L40201-06***
Date Sampled: *09/27/17 12:55*
Date Received: *09/29/17*
Sample Matrix: *Surface Water*

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	1		U		mg/L	0.03	0.2	10/09/17 19:11	dcm
Aluminum, total	M200.7 ICP	1		U		mg/L	0.03	0.2	10/09/17 15:57	aeh
Antimony, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0004	0.002	10/11/17 18:58	mfm
Antimony, total	M200.8 ICP-MS	1		U	*	mg/L	0.0004	0.002	10/12/17 15:48	mfm
Arsenic, dissolved	M200.8 ICP-MS	1	0.0003	B		mg/L	0.0002	0.001	10/11/17 18:58	mfm
Arsenic, total	M200.8 ICP-MS	1	0.0006	B		mg/L	0.0002	0.001	10/12/17 15:48	mfm
Barium, dissolved	M200.7 ICP	1	0.019	B		mg/L	0.003	0.02	10/09/17 19:11	dcm
Barium, total	M200.7 ICP	1	0.015	B		mg/L	0.003	0.02	10/09/17 15:57	aeh
Beryllium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/11/17 18:58	mfm
Beryllium, total	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/12/17 15:48	mfm
Cadmium, dissolved	M200.8 ICP-MS	1	0.0029			mg/L	0.0001	0.0005	10/11/17 18:58	mfm
Cadmium, total	M200.8 ICP-MS	1	0.0033			mg/L	0.0001	0.0005	10/12/17 15:48	mfm
Calcium, dissolved	M200.7 ICP	1	159			mg/L	0.1	0.5	10/09/17 19:11	dcm
Calcium, total	M200.7 ICP	1	160			mg/L	0.1	0.5	10/09/17 15:57	aeh
Chromium, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 19:11	dcm
Chromium, total	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 15:57	aeh
Cobalt, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	10/10/17 10:29	aeh
Cobalt, total	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 15:57	aeh
Copper, dissolved	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 19:11	dcm
Copper, total	M200.7 ICP	1		U		mg/L	0.01	0.05	10/09/17 15:57	aeh
Iron, dissolved	M200.7 ICP	1		U		mg/L	0.02	0.05	10/09/17 19:11	dcm
Iron, total	M200.7 ICP	1		U		mg/L	0.02	0.05	10/09/17 15:57	aeh
Lead, dissolved	M200.8 ICP-MS	1	0.0001	B		mg/L	0.0001	0.0005	10/11/17 18:58	mfm
Lead, total	M200.8 ICP-MS	1	0.0004	B		mg/L	0.0001	0.0005	10/12/17 15:48	mfm
Magnesium, dissolved	M200.7 ICP	1	2.5			mg/L	0.2	1	10/09/17 19:11	dcm
Magnesium, total	M200.7 ICP	1	2.4			mg/L	0.2	1	10/09/17 15:57	aeh
Manganese, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	10/09/17 19:11	dcm
Manganese, total	M200.7 ICP	1		U		mg/L	0.005	0.03	10/09/17 15:57	aeh
Mercury, dissolved	M245.1 CVAA	1		U		mg/L	0.0002	0.001	10/10/17 17:17	sck
Mercury, total	M245.1 CVAA	1		U		mg/L	0.0002	0.001	10/11/17 10:52	sck
Nickel, dissolved	M200.7 ICP	1		U		mg/L	0.008	0.04	10/09/17 19:11	dcm
Nickel, total	M200.7 ICP	1		U		mg/L	0.008	0.04	10/09/17 15:57	aeh
Potassium, dissolved	M200.7 ICP	1	0.5	B		mg/L	0.2	1	10/09/17 19:11	dcm
Potassium, total	M200.7 ICP	1	0.5	B		mg/L	0.2	1	10/09/17 15:57	aeh
Selenium, dissolved	M200.8 ICP-MS	1	0.0015			mg/L	0.0001	0.0003	10/11/17 18:58	mfm
Selenium, total	M200.8 ICP-MS	1	0.0015			mg/L	0.0001	0.0003	10/12/17 15:48	mfm
Silver, dissolved	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/11/17 18:58	mfm
Silver, total	M200.8 ICP-MS	1		U		mg/L	0.00005	0.0003	10/16/17 13:10	bsu
Sodium, dissolved	M200.7 ICP	1	3.5			mg/L	0.2	1	10/09/17 19:11	dcm
Sodium, total	M200.7 ICP	1	3.5			mg/L	0.2	1	10/09/17 15:57	aeh
Thallium, dissolved	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	10/11/17 18:58	mfm
Thallium, total	M200.8 ICP-MS	1		U		mg/L	0.0001	0.0005	10/12/17 15:48	mfm
Vanadium, dissolved	M200.7 ICP	1		U		mg/L	0.005	0.03	10/09/17 19:11	dcm

Environ International Corp.
Project ID:
Sample ID: SW-03-170927-FD

ACZ Sample ID: ***L40201-06***
Date Sampled: *09/27/17 12:55*
Date Received: *09/29/17*
Sample Matrix: *Surface Water*

Vanadium, total	M200.7 ICP	1		U		mg/L	0.005	0.03	10/09/17 15:57	aeh
Zinc, dissolved	M200.7 ICP	1	0.57			mg/L	0.01	0.05	10/09/17 19:11	dcm
Zinc, total	M200.7 ICP	1	0.55			mg/L	0.01	0.05	10/09/17 15:57	aeh

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	50.9			mg/L	2	20	10/04/17 0:00	emk
Carbonate as CaCO3		1		U		mg/L	2	20	10/04/17 0:00	emk
Hydroxide as CaCO3		1		U		mg/L	2	20	10/04/17 0:00	emk
Total Alkalinity		1	50.9			mg/L	2	20	10/04/17 0:00	emk
Cation-Anion Balance	Calculation									
Cation-Anion Balance			-1.8			%			11/20/17 0:00	calc
Sum of Anions			8.6			meq/L			11/20/17 0:00	calc
Sum of Cations			8.3			meq/L			11/20/17 0:00	calc
Chloride	SM4500Cl-E	1		U		mg/L	0.5	2	10/09/17 11:27	las
Hardness as CaCO3 (total)	SM2340B - Calculation		409			mg/L	0.2	5	11/20/17 0:00	calc
pH (lab)	SM4500H+ B									
pH		1	7.8	H		units	0.1	0.1	10/04/17 0:00	emk
pH measured at		1	22.4			C	0.1	0.1	10/04/17 0:00	emk
Residue, Filterable (TDS) @180C	SM2540C	1	584			mg/L	10	20	10/03/17 11:59	ecc
Sulfate	D516-02/-07 - Turbidimetric	20	363		*	mg/L	20	100	10/18/17 12:11	las
TDS (calculated)	Calculation		560			mg/L			11/20/17 0:00	calc
TDS (ratio - measured/calculated)	Calculation		1.04						11/20/17 0:00	calc

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	*LCSWD*	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	*LFB*	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	*LFM*	Laboratory Fortified Matrix
CCV	Continuing Calibration Verification standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
ICB	Initial Calibration Blank	*MS*	Matrix Spike
ICV	Initial Calibration Verification standard	*MSD*	Matrix Spike Duplicate
ICSAB	Inter-element Correction Standard - A plus B solutions	*PBS*	Prep Blank - Soil
LCSS	Laboratory Control Sample - Soil	*PBW*	Prep Blank - Water
LCSSD	Laboratory Control Sample - Soil Duplicate	*PQV*	Practical Quantitation Verification standard
LCSW	Laboratory Control Sample - Water	*SDL*	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5)	If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

Environ International Corp.

ACZ Project ID: ***L40201***

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432683													
WG432683PBW1	PBW	10/03/17 15:31				U	mg/L		-20	20			
WG432683LCSW3	LCSW	10/03/17 15:48	WC170925-7	820.0001		788	mg/L	96	90	110			
WG432683LCSW6	LCSW	10/03/17 19:24	WC170925-7	820.0001		792	mg/L	97	90	110			
WG432683PBW2	PBW	10/03/17 19:32				2.4	mg/L		-20	20			
WG432683LCSW9	LCSW	10/03/17 22:29	WC170925-7	820.0001		796	mg/L	97	90	110			
WG432683PBW3	PBW	10/03/17 22:38				2.8	mg/L		-20	20			
WG432683LCSW12	LCSW	10/04/17 3:42	WC170925-7	820.0001		797	mg/L	97	90	110			
WG432683PBW4	PBW	10/04/17 3:51				2.7	mg/L		-20	20			
L40201-06DUP	DUP	10/04/17 6:32			50.9	51.1	mg/L				0	20	
WG432683LCSW15	LCSW	10/04/17 6:58	WC170925-7	820.0001		807	mg/L	98	90	110			

Aluminum, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433049													
WG433049ICV	ICV	10/09/17 17:25	II171002-1	2		1.932	mg/L	97	95	105			
WG433049ICB	ICB	10/09/17 17:31				U	mg/L		-0.09	0.09			
WG433049LFB	LFB	10/09/17 17:44	II171003-4	1.0013		1.024	mg/L	102	85	115			
L40201-04AS	AS	10/09/17 19:01	II171003-4	1.0013	U	1.025	mg/L	102	85	115			
L40201-04ASD	ASD	10/09/17 19:04	II171003-4	1.0013	U	.997	mg/L	100	85	115	3	20	

Aluminum, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433081													
WG433081ICV	ICV	10/09/17 15:09	II170922-1	2		1.968	mg/L	98	95	105			
WG433081ICB	ICB	10/09/17 15:15				U	mg/L		-0.09	0.09			
WG432962LRB	LRB	10/09/17 15:28				U	mg/L		-0.066	0.066			
WG432962LFB	LFB	10/09/17 15:31	II171003-4	1.0013		1.007	mg/L	101	85	115			
L40201-03LFM	LFM	10/09/17 15:44	II171003-4	1.0013	.05	1.068	mg/L	102	70	130			
L40201-03LFMD	LFMD	10/09/17 15:47	II171003-4	1.0013	.05	1.071	mg/L	102	70	130	0	20	

Antimony, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433345													
WG433345ICV	ICV	10/11/17 17:22	MS170901-1	.02		.02036	mg/L	102	90	110			
WG433345ICB	ICB	10/11/17 17:26				U	mg/L		-0.0012	0.0012			
WG433345LFB	LFB	10/11/17 17:29	MS171009-2	.01		.00904	mg/L	90	85	115			
L40201-01AS	AS	10/11/17 18:33	MS171009-2	.01	U	.00873	mg/L	87	70	130			
L40201-01ASD	ASD	10/11/17 18:42	MS171009-2	.01	U	.00858	mg/L	86	70	130	2	20	

Environ International Corp. ACZ Project ID: ***L40201***

Antimony, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433433													
WG433433ICV	ICV	10/12/17 14:49	MS170901-1	.02		.01827	mg/L	91	90	110			
WG433433ICB	ICB	10/12/17 14:52				U	mg/L		-0.0012	0.0012			
WG433097LRB	LRB	10/12/17 14:55				U	mg/L		-0.00088	0.00088			
WG433097LFB	LFB	10/12/17 14:58	MS170919-2	.01		.01201	mg/L	120	85	115			LA
L40201-02LFM	LFM	10/12/17 15:33	MS170919-2	.01	U	.01198	mg/L	120	70	130			
L40201-02LFMD	LFMD	10/12/17 15:36	MS170919-2	.01	U	.01207	mg/L	121	70	130	1	20	
L40347-01LFM	LFM	10/12/17 15:55	MS170919-2	.01	U	.01204	mg/L	120	70	130			
L40347-01LFMD	LFMD	10/12/17 15:58	MS170919-2	.01	U	.0116	mg/L	116	70	130	4	20	

Arsenic, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433345													
WG433345ICV	ICV	10/11/17 17:22	MS170901-1	.05		.05288	mg/L	106	90	110			
WG433345ICB	ICB	10/11/17 17:26				U	mg/L		-0.0006	0.0006			
WG433345LFB	LFB	10/11/17 17:29	MS171009-2	.0501		.04872	mg/L	97	85	115			
L40201-01AS	AS	10/11/17 18:33	MS171009-2	.0501	U	.0522	mg/L	104	70	130			
L40201-01ASD	ASD	10/11/17 18:42	MS171009-2	.0501	U	.05075	mg/L	101	70	130	3	20	

Arsenic, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433433													
WG433433ICV	ICV	10/12/17 14:49	MS170901-1	.05		.05028	mg/L	101	90	110			
WG433433ICB	ICB	10/12/17 14:52				U	mg/L		-0.0006	0.0006			
WG433097LRB	LRB	10/12/17 14:55				U	mg/L		-0.00044	0.00044			
WG433097LFB	LFB	10/12/17 14:58	MS170919-2	.0501		.05373	mg/L	107	85	115			
L40201-02LFM	LFM	10/12/17 15:33	MS170919-2	.0501	.0003	.05355	mg/L	106	70	130			
L40201-02LFMD	LFMD	10/12/17 15:36	MS170919-2	.0501	.0003	.05678	mg/L	113	70	130	6	20	
L40347-01LFM	LFM	10/12/17 15:55	MS170919-2	.0501	.0028	.05906	mg/L	112	70	130			
L40347-01LFMD	LFMD	10/12/17 15:58	MS170919-2	.0501	.0028	.05499	mg/L	104	70	130	7	20	

Barium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433049													
WG433049ICV	ICV	10/09/17 17:25	II171002-1	2		1.9578	mg/L	98	95	105			
WG433049ICB	ICB	10/09/17 17:31				.0035	mg/L		-0.009	0.009			
WG433049LFB	LFB	10/09/17 17:44	II171003-4	.5015		.5084	mg/L	101	85	115			
L40201-04AS	AS	10/09/17 19:01	II171003-4	.5015	.024	.5123	mg/L	97	85	115			
L40201-04ASD	ASD	10/09/17 19:04	II171003-4	.5015	.024	.5292	mg/L	101	85	115	3	20	

Barium, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433081													
WG433081ICV	ICV	10/09/17 15:09	II170922-1	2		1.9628	mg/L	98	95	105			
WG433081ICB	ICB	10/09/17 15:15				U	mg/L		-0.009	0.009			
WG432962LRB	LRB	10/09/17 15:28				U	mg/L		-0.0066	0.0066			
WG432962LFB	LFB	10/09/17 15:31	II171003-4	.5015		.5142	mg/L	103	85	115			
L40201-03LFM	LFM	10/09/17 15:44	II171003-4	.5015	.021	.5396	mg/L	103	70	130			
L40201-03LFMD	LFMD	10/09/17 15:47	II171003-4	.5015	.021	.5438	mg/L	104	70	130	1	20	

Environ International Corp. ACZ Project ID: ***L40201***

Beryllium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433345													
WG433345ICV	ICV	10/11/17 17:22	MS170901-1	.05		.05492	mg/L	110	90	110			
WG433345ICB	ICB	10/11/17 17:26				.000064	mg/L		-0.00015	0.00015			
WG433345LFB	LFB	10/11/17 17:29	MS171009-2	.05035		.05216	mg/L	104	85	115			
L40201-01AS	AS	10/11/17 18:33	MS171009-2	.05035	U	.05364	mg/L	107	70	130			
L40201-01ASD	ASD	10/11/17 18:42	MS171009-2	.05035	U	.05244	mg/L	104	70	130	2	20	

Beryllium, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433433													
WG433433ICV	ICV	10/12/17 14:49	MS170901-1	.05		.04808	mg/L	96	90	110			
WG433433ICB	ICB	10/12/17 14:52				U	mg/L		-0.00015	0.00015			
WG433097LRB	LRB	10/12/17 14:55				U	mg/L		-0.00011	0.00011			
WG433097LFB	LFB	10/12/17 14:58	MS170919-2	.05035		.05131	mg/L	102	85	115			
L40201-02LFM	LFM	10/12/17 15:33	MS170919-2	.05035	U	.05261	mg/L	104	70	130			
L40201-02LFMD	LFMD	10/12/17 15:36	MS170919-2	.05035	U	.05277	mg/L	105	70	130	0	20	
L40347-01LFM	LFM	10/12/17 15:55	MS170919-2	.05035	U	.04977	mg/L	99	70	130			
L40347-01LFMD	LFMD	10/12/17 15:58	MS170919-2	.05035	U	.04765	mg/L	95	70	130	4	20	

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433345													
WG433345ICV	ICV	10/11/17 17:22	MS170901-1	.05		.05309	mg/L	106	90	110			
WG433345ICB	ICB	10/11/17 17:26				U	mg/L		-0.0003	0.0003			
WG433345LFB	LFB	10/11/17 17:29	MS171009-2	.05005		.04772	mg/L	95	85	115			
L40201-01AS	AS	10/11/17 18:33	MS171009-2	.05005	.0031	.05081	mg/L	95	70	130			
L40201-01ASD	ASD	10/11/17 18:42	MS171009-2	.05005	.0031	.05069	mg/L	95	70	130	0	20	

Cadmium, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433433													
WG433433ICV	ICV	10/12/17 14:49	MS170901-1	.05		.05008	mg/L	100	90	110			
WG433433ICB	ICB	10/12/17 14:52				U	mg/L		-0.0003	0.0003			
WG433097LRB	LRB	10/12/17 14:55				U	mg/L		-0.00022	0.00022			
WG433097LFB	LFB	10/12/17 14:58	MS170919-2	.05005		.05124	mg/L	102	85	115			
L40201-02LFM	LFM	10/12/17 15:33	MS170919-2	.05005	.0041	.05356	mg/L	99	70	130			
L40201-02LFMD	LFMD	10/12/17 15:36	MS170919-2	.05005	.0041	.0539	mg/L	100	70	130	1	20	
L40347-01LFM	LFM	10/12/17 15:55	MS170919-2	.05005	U	.04992	mg/L	100	70	130			
L40347-01LFMD	LFMD	10/12/17 15:58	MS170919-2	.05005	U	.04777	mg/L	95	70	130	4	20	

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433049													
WG433049ICV	ICV	10/09/17 17:25	II171002-1	100		97.95	mg/L	98	95	105			
WG433049ICB	ICB	10/09/17 17:31				U	mg/L		-0.3	0.3			
WG433049LFB	LFB	10/09/17 17:44	II171003-4	68.01697		71.3	mg/L	105	85	115			
L40201-04AS	AS	10/09/17 19:01	II171003-4	68.01697	152	212.1	mg/L	88	85	115			
L40201-04ASD	ASD	10/09/17 19:04	II171003-4	68.01697	152	214.1	mg/L	91	85	115	1	20	

Environ International Corp.

ACZ Project ID: ***L40201***

Calcium, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433081													
WG433081ICV	ICV	10/09/17 15:09	II170922-1	100		98.89	mg/L	99	95	105			
WG433081ICB	ICB	10/09/17 15:15				U	mg/L		-0.3	0.3			
WG432962LRB	LRB	10/09/17 15:28				U	mg/L		-0.22	0.22			
WG432962LFB	LFB	10/09/17 15:31	II171003-4	68.01697		69.57	mg/L	102	85	115			
L40201-03LFM	LFM	10/09/17 15:44	II171003-4	68.01697	154	223.1	mg/L	102	70	130			
L40201-03LFMD	LFMD	10/09/17 15:47	II171003-4	68.01697	154	224.5	mg/L	104	70	130	1	20	

Chloride SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433035													
WG433035ICB	ICB	10/09/17 9:38				U	mg/L		-1.5	1.5			
WG433035ICV	ICV	10/09/17 9:38	WI170807-5	55.165		57.46	mg/L	104	90	110			
WG433035LFB1	LFB	10/09/17 10:48	WI170630-1	30.03		30.95	mg/L	103	90	110			
L40201-01AS	AS	10/09/17 11:03	WI170630-1	30.03	.6	32.13	mg/L	105	90	110			
L40201-02DUP	DUP	10/09/17 11:03			U	U	mg/L				0	20	RA
WG433035LFB2	LFB	10/09/17 11:03	WI170630-1	30.03		31.08	mg/L	103	90	110			
L40204-05AS	AS	10/09/17 11:27	WI170630-1	30.03	52.3	79.4	mg/L	90	90	110			
L40338-01DUP	DUP	10/09/17 11:27			27.4	26.58	mg/L				3	20	

Chromium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433049													
WG433049ICV	ICV	10/09/17 17:25	II171002-1	2		1.946	mg/L	97	95	105			
WG433049ICB	ICB	10/09/17 17:31				U	mg/L		-0.03	0.03			
WG433049LFB	LFB	10/09/17 17:44	II171003-4	.498		.507	mg/L	102	85	115			
L40201-04AS	AS	10/09/17 19:01	II171003-4	.498	U	.487	mg/L	98	85	115			
L40201-04ASD	ASD	10/09/17 19:04	II171003-4	.498	U	.504	mg/L	101	85	115	3	20	

Chromium, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433081													
WG433081ICV	ICV	10/09/17 15:09	II170922-1	2		1.985	mg/L	99	95	105			
WG433081ICB	ICB	10/09/17 15:15				U	mg/L		-0.03	0.03			
WG432962LRB	LRB	10/09/17 15:28				U	mg/L		-0.022	0.022			
WG432962LFB	LFB	10/09/17 15:31	II171003-4	.498		.52	mg/L	104	85	115			
L40201-03LFM	LFM	10/09/17 15:44	II171003-4	.498	U	.513	mg/L	103	70	130			
L40201-03LFMD	LFMD	10/09/17 15:47	II171003-4	.498	U	.512	mg/L	103	70	130	0	20	

Cobalt, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433148													
WG433148ICV	ICV	10/10/17 9:44	II171002-1	2.002		1.928	mg/L	96	95	105			
WG433148ICB	ICB	10/10/17 9:50				U	mg/L		-0.03	0.03			
WG433148LFB	LFB	10/10/17 10:03	II171003-4	.5025		.504	mg/L	100	85	115			
L40201-04AS	AS	10/10/17 10:19	II171003-4	.5025	.02	.5	mg/L	96	85	115			
L40201-04ASD	ASD	10/10/17 10:22	II171003-4	.5025	.02	.489	mg/L	93	85	115	2	20	

Environ International Corp. ACZ Project ID: ***L40201***

Cobalt, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433081													
WG433081ICV	ICV	10/09/17 15:09	II170922-1	2.002		1.912	mg/L	96	95	105			
WG433081ICB	ICB	10/09/17 15:15				U	mg/L		-0.03	0.03			
WG432962LRB	LRB	10/09/17 15:28				U	mg/L		-0.022	0.022			
WG432962LFB	LFB	10/09/17 15:31	II171003-4	.5025		.512	mg/L	102	85	115			
L40201-03LFM	LFM	10/09/17 15:44	II171003-4	.5025	U	.513	mg/L	102	70	130			
L40201-03LFMD	LFMD	10/09/17 15:47	II171003-4	.5025	U	.509	mg/L	101	70	130	1	20	

Copper, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433049													
WG433049ICV	ICV	10/09/17 17:25	II171002-1	2		1.941	mg/L	97	95	105			
WG433049ICB	ICB	10/09/17 17:31				U	mg/L		-0.03	0.03			
WG433049LFB	LFB	10/09/17 17:44	II171003-4	.5		.505	mg/L	101	85	115			
L40201-04AS	AS	10/09/17 19:01	II171003-4	.5	U	.489	mg/L	98	85	115			
L40201-04ASD	ASD	10/09/17 19:04	II171003-4	.5	U	.506	mg/L	101	85	115	3	20	

Copper, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433081													
WG433081ICV	ICV	10/09/17 15:09	II170922-1	2		1.98	mg/L	99	95	105			
WG433081ICB	ICB	10/09/17 15:15				U	mg/L		-0.03	0.03			
WG432962LRB	LRB	10/09/17 15:28				U	mg/L		-0.022	0.022			
WG432962LFB	LFB	10/09/17 15:31	II171003-4	.5		.518	mg/L	104	85	115			
L40201-03LFM	LFM	10/09/17 15:44	II171003-4	.5	U	.525	mg/L	105	70	130			
L40201-03LFMD	LFMD	10/09/17 15:47	II171003-4	.5	U	.523	mg/L	105	70	130	0	20	

Iron, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433049													
WG433049ICV	ICV	10/09/17 17:25	II171002-1	2		1.923	mg/L	96	95	105			
WG433049ICB	ICB	10/09/17 17:31				U	mg/L		-0.06	0.06			
WG433049LFB	LFB	10/09/17 17:44	II171003-4	1.0011		1.005	mg/L	100	85	115			
L40201-04AS	AS	10/09/17 19:01	II171003-4	1.0011	.04	.999	mg/L	96	85	115			
L40201-04ASD	ASD	10/09/17 19:04	II171003-4	1.0011	.04	1.033	mg/L	99	85	115	3	20	

Iron, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433081													
WG433081ICV	ICV	10/09/17 15:09	II170922-1	2		1.935	mg/L	97	95	105			
WG433081ICB	ICB	10/09/17 15:15				U	mg/L		-0.06	0.06			
WG432962LRB	LRB	10/09/17 15:28				U	mg/L		-0.044	0.044			
WG432962LFB	LFB	10/09/17 15:31	II171003-4	1.0011		1.026	mg/L	102	85	115			
L40201-03LFM	LFM	10/09/17 15:44	II171003-4	1.0011	.09	1.11	mg/L	102	70	130			
L40201-03LFMD	LFMD	10/09/17 15:47	II171003-4	1.0011	.09	1.12	mg/L	103	70	130	1	20	

Lead, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433345													
WG433345ICV	ICV	10/11/17 17:22	MS170901-1	.05		.05351	mg/L	107	90	110			
WG433345ICB	ICB	10/11/17 17:26				U	mg/L		-0.0003	0.0003			
WG433345LFB	LFB	10/11/17 17:29	MS171009-2	.0496		.04539	mg/L	92	85	115			
L40201-01AS	AS	10/11/17 18:33	MS171009-2	.0496	.0002	.04624	mg/L	93	70	130			
L40201-01ASD	ASD	10/11/17 18:42	MS171009-2	.0496	.0002	.04588	mg/L	92	70	130	1	20	

Lead, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433433													
WG433433ICV	ICV	10/12/17 14:49	MS170901-1	.05		.05271	mg/L	105	90	110			
WG433433ICB	ICB	10/12/17 14:52				U	mg/L		-0.0003	0.0003			
WG433097LRB	LRB	10/12/17 14:55				U	mg/L		-0.00022	0.00022			
WG433097LFB	LFB	10/12/17 14:58	MS170919-2	.0501		.05207	mg/L	104	85	115			
L40201-02LFM	LFM	10/12/17 15:33	MS170919-2	.0501	.0023	.05359	mg/L	102	70	130			
L40201-02LFMD	LFMD	10/12/17 15:36	MS170919-2	.0501	.0023	.05365	mg/L	102	70	130	0	20	
L40347-01LFM	LFM	10/12/17 15:55	MS170919-2	.0501	.0005	.05201	mg/L	103	70	130			
L40347-01LFMD	LFMD	10/12/17 15:58	MS170919-2	.0501	.0005	.05009	mg/L	99	70	130	4	20	

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433049													
WG433049ICV	ICV	10/09/17 17:25	II171002-1	100		98.93	mg/L	99	95	105			
WG433049ICB	ICB	10/09/17 17:31				U	mg/L		-0.6	0.6			
WG433049LFB	LFB	10/09/17 17:44	II171003-4	50.01363		49.1	mg/L	98	85	115			
L40201-04AS	AS	10/09/17 19:01	II171003-4	50.01363	2.8	50.89	mg/L	96	85	115			
L40201-04ASD	ASD	10/09/17 19:04	II171003-4	50.01363	2.8	49.82	mg/L	94	85	115	2	20	

Magnesium, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433081													
WG433081ICV	ICV	10/09/17 15:09	II170922-1	100		99.63	mg/L	100	95	105			
WG433081ICB	ICB	10/09/17 15:15				U	mg/L		-0.6	0.6			
WG432962LRB	LRB	10/09/17 15:28				U	mg/L		-0.44	0.44			
WG432962LFB	LFB	10/09/17 15:31	II171003-4	50.01363		47.85	mg/L	96	85	115			
L40201-03LFM	LFM	10/09/17 15:44	II171003-4	50.01363	2.8	50.17	mg/L	95	70	130			
L40201-03LFMD	LFMD	10/09/17 15:47	II171003-4	50.01363	2.8	50.68	mg/L	96	70	130	1	20	

Manganese, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433049													
WG433049ICV	ICV	10/09/17 17:25	II171002-1	2		1.9602	mg/L	98	95	105			
WG433049ICB	ICB	10/09/17 17:31				U	mg/L		-0.015	0.015			
WG433049LFB	LFB	10/09/17 17:44	II171003-4	.5		.5157	mg/L	103	85	115			
L40201-04AS	AS	10/09/17 19:01	II171003-4	.5	.024	.5163	mg/L	98	85	115			
L40201-04ASD	ASD	10/09/17 19:04	II171003-4	.5	.024	.5351	mg/L	102	85	115	4	20	

Environ International Corp. ACZ Project ID: ***L40201***

Manganese, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433081													
WG433081ICV	ICV	10/09/17 15:09	II170922-1	2		1.9752	mg/L	99	95	105			
WG433081ICB	ICB	10/09/17 15:15				U	mg/L		-0.015	0.015			
WG432962LRB	LRB	10/09/17 15:28				U	mg/L		-0.011	0.011			
WG432962LFB	LFB	10/09/17 15:31	II171003-4	.5		.5236	mg/L	105	85	115			
L40201-03LFM	LFM	10/09/17 15:44	II171003-4	.5	.02	.5467	mg/L	105	70	130			
L40201-03LFMD	LFMD	10/09/17 15:47	II171003-4	.5	.02	.5513	mg/L	106	70	130	1	20	

Mercury, dissolved M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433154													
WG433154ICV	ICV	10/10/17 15:40	HG170731-2	.005005		.0051	mg/L	102	95	105			
WG433154ICB	ICB	10/10/17 15:41				U	mg/L		-0.0002	0.0002			
WG433156													
WG433156LRB	LRB	10/10/17 16:50				U	mg/L		-0.00044	0.00044			
WG433156LFB	LFB	10/10/17 16:51	HG171010-3	.002002		.00197	mg/L	98	85	115			
L40201-04LFM	LFM	10/10/17 17:15	HG171010-3	.002002	U	.00197	mg/L	98	85	115			
L40201-04LFMD	LFMD	10/10/17 17:16	HG171010-3	.002002	U	.00201	mg/L	100	85	115	2	20	

Mercury, total M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433159													
WG433159ICV	ICV	10/11/17 10:36	HG170731-2	.005005		.00498	mg/L	100	95	105			
WG433159ICB	ICB	10/11/17 10:37				U	mg/L		-0.0002	0.0002			
WG433159LRB	LRB	10/11/17 10:39				U	mg/L		-0.00044	0.00044			
WG433159LFB	LFB	10/11/17 10:40	HG171010-3	.002002		.00198	mg/L	99	85	115			
L40201-04LFM	LFM	10/11/17 10:47	HG171010-3	.002002	U	.00197	mg/L	98	85	115			
L40201-04LFMD	LFMD	10/11/17 10:50	HG171010-3	.002002	U	.00201	mg/L	100	85	115	2	20	

Nickel, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433049													
WG433049ICV	ICV	10/09/17 17:25	II171002-1	2.004		1.9355	mg/L	97	95	105			
WG433049ICB	ICB	10/09/17 17:31				U	mg/L		-0.024	0.024			
WG433049LFB	LFB	10/09/17 17:44	II171003-4	.4995		.5107	mg/L	102	85	115			
L40201-04AS	AS	10/09/17 19:01	II171003-4	.4995	U	.4933	mg/L	99	85	115			
L40201-04ASD	ASD	10/09/17 19:04	II171003-4	.4995	U	.5042	mg/L	101	85	115	2	20	

Nickel, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433081													
WG433081ICV	ICV	10/09/17 15:09	II170922-1	2.004		1.9672	mg/L	98	95	105			
WG433081ICB	ICB	10/09/17 15:15				U	mg/L		-0.024	0.024			
WG432962LRB	LRB	10/09/17 15:28				U	mg/L		-0.0176	0.0176			
WG432962LFB	LFB	10/09/17 15:31	II171003-4	.4995		.5257	mg/L	105	85	115			
L40201-03LFM	LFM	10/09/17 15:44	II171003-4	.4995	U	.5224	mg/L	105	70	130			
L40201-03LFMD	LFMD	10/09/17 15:47	II171003-4	.4995	U	.5228	mg/L	105	70	130	0	20	

Environ International Corp. ACZ Project ID: ***L40201***

pH (lab) SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432683													
WG432683LCSW1	LCSW	10/03/17 15:34	PCN52664	6		6	units	100	5.9	6.1			
WG432683LCSW4	LCSW	10/03/17 19:10	PCN52664	6		6.1	units	102	5.9	6.1			
WG432683LCSW7	LCSW	10/03/17 22:16	PCN52664	6		6.1	units	102	5.9	6.1			
WG432683LCSW10	LCSW	10/04/17 3:28	PCN52664	6		6.1	units	102	5.9	6.1			
L40201-06DUP	DUP	10/04/17 6:32			7.8	7.8	units				0	20	
WG432683LCSW13	LCSW	10/04/17 6:44	PCN52664	6		6.1	units	102	5.9	6.1			

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433049													
WG433049ICV	ICV	10/09/17 17:25	II171002-1	20		19.94	mg/L	100	95	105			
WG433049ICB	ICB	10/09/17 17:31				U	mg/L		-0.6	0.6			
WG433049LFB	LFB	10/09/17 17:44	II171003-4	100.002		104.4	mg/L	104	85	115			
L40201-04AS	AS	10/09/17 19:01	II171003-4	100.002	.4	104.8	mg/L	104	85	115			
L40201-04ASD	ASD	10/09/17 19:04	II171003-4	100.002	.4	102.3	mg/L	102	85	115	2	20	

Potassium, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433081													
WG433081ICV	ICV	10/09/17 15:09	II170922-1	20		20.33	mg/L	102	95	105			
WG433081ICB	ICB	10/09/17 15:15				U	mg/L		-0.6	0.6			
WG432962LRB	LRB	10/09/17 15:28				U	mg/L		-0.44	0.44			
WG432962LFB	LFB	10/09/17 15:31	II171003-4	100.002		103	mg/L	103	85	115			
L40201-03LFM	LFM	10/09/17 15:44	II171003-4	100.002	.5	104.4	mg/L	104	70	130			
L40201-03LFMD	LFMD	10/09/17 15:47	II171003-4	100.002	.5	104.9	mg/L	104	70	130	0	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG432659													
WG432659PBW	PBW	10/03/17 11:15				U	mg/L		-20	20			
WG432659LCSW	LCSW	10/03/17 11:17	PCN54015	260		254	mg/L	98	80	120			
L40201-01DUP	DUP	10/03/17 11:46			588	580	mg/L				1	10	
L40210-02DUP	DUP	10/03/17 12:15			276	290	mg/L				5	10	

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433345													
WG433345ICV	ICV	10/11/17 17:22	MS170901-1	.05		.05388	mg/L	108	90	110			
WG433345ICB	ICB	10/11/17 17:26				U	mg/L		-0.0003	0.0003			
WG433345LFB	LFB	10/11/17 17:29	MS171009-2	.05005		.04811	mg/L	96	85	115			
L40201-01AS	AS	10/11/17 18:33	MS171009-2	.05005	.0013	.05375	mg/L	105	70	130			
L40201-01ASD	ASD	10/11/17 18:42	MS171009-2	.05005	.0013	.05362	mg/L	105	70	130	0	20	

Environ International Corp. ACZ Project ID: ***L40201***

Selenium, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433433													
WG433433ICV	ICV	10/12/17 14:49	MS170901-1	.05		.05158	mg/L	103	90	110			
WG433433ICB	ICB	10/12/17 14:52				U	mg/L		-0.0003	0.0003			
WG433097LRB	LRB	10/12/17 14:55				U	mg/L		-0.00022	0.00022			
WG433097LFB	LFB	10/12/17 14:58	MS170919-2	.05005		.05188	mg/L	104	85	115			
L40201-02LFM	LFM	10/12/17 15:33	MS170919-2	.05005	.0013	.05278	mg/L	103	70	130			
L40201-02LFMD	LFMD	10/12/17 15:36	MS170919-2	.05005	.0013	.05448	mg/L	106	70	130	3	20	
L40347-01LFM	LFM	10/12/17 15:55	MS170919-2	.05005	.0003	.05021	mg/L	100	70	130			
L40347-01LFMD	LFMD	10/12/17 15:58	MS170919-2	.05005	.0003	.04882	mg/L	97	70	130	3	20	

Silver, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433345													
WG433345ICV	ICV	10/11/17 17:22	MS170901-1	.02004		.02172	mg/L	108	90	110			
WG433345ICB	ICB	10/11/17 17:26				U	mg/L		-0.00015	0.00015			
WG433345LFB	LFB	10/11/17 17:29	MS171009-2	.01001		.009383	mg/L	94	85	115			
L40201-01AS	AS	10/11/17 18:33	MS171009-2	.01001	U	.009117	mg/L	91	70	130			
L40201-01ASD	ASD	10/11/17 18:42	MS171009-2	.01001	U	.00906	mg/L	91	70	130	1	20	

Silver, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433632													
WG433632ICV	ICV	10/16/17 12:26	MS170901-1	.02004		.02013	mg/L	100	90	110			
WG433632ICB	ICB	10/16/17 12:28				U	mg/L		-0.00015	0.00015			
WG433097LRB	LRB	10/16/17 12:31				U	mg/L		-0.00011	0.00011			
WG433097LFB	LFB	10/16/17 12:34	MS170919-2	.01001		.009937	mg/L	99	85	115			
L40201-02LFM	LFM	10/16/17 12:51	MS170919-2	.01001	U	.009716	mg/L	97	70	130			
L40201-02LFMD	LFMD	10/16/17 12:53	MS170919-2	.01001	U	.009832	mg/L	98	70	130	1	20	
L40347-01LFM	LFM	10/16/17 13:15	MS170919-2	.01001	U	.009632	mg/L	96	70	130			
L40347-01LFMD	LFMD	10/16/17 13:18	MS170919-2	.01001	U	.009492	mg/L	95	70	130	1	20	

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433049													
WG433049ICV	ICV	10/09/17 17:25	II171002-1	100		98.51	mg/L	99	95	105			
WG433049ICB	ICB	10/09/17 17:31				U	mg/L		-0.6	0.6			
WG433049LFB	LFB	10/09/17 17:44	II171003-4	100.0031		103.8	mg/L	104	85	115			
L40201-04AS	AS	10/09/17 19:01	II171003-4	100.0031	3.5	106.9	mg/L	103	85	115			
L40201-04ASD	ASD	10/09/17 19:04	II171003-4	100.0031	3.5	104.6	mg/L	101	85	115	2	20	

Sodium, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433081													
WG433081ICV	ICV	10/09/17 15:09	II170922-1	100		99.65	mg/L	100	95	105			
WG433081ICB	ICB	10/09/17 15:15				U	mg/L		-0.6	0.6			
WG432962LRB	LRB	10/09/17 15:28				U	mg/L		-0.44	0.44			
WG432962LFB	LFB	10/09/17 15:31	II171003-4	100.0031		101	mg/L	101	85	115			
L40201-03LFM	LFM	10/09/17 15:44	II171003-4	100.0031	3.6	105.8	mg/L	102	70	130			
L40201-03LFMD	LFMD	10/09/17 15:47	II171003-4	100.0031	3.6	106.4	mg/L	103	70	130	1	20	

Environ International Corp.

ACZ Project ID: ***L40201***

Sulfate D516-02/-07 - Turbidimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433845													
WG433845ICB	ICB	10/18/17 9:41				U	mg/L		-3	3			
WG433845ICV	ICV	10/18/17 9:41	WI171013-2	20		19.3	mg/L	97	90	110			
WG433845LFB	LFB	10/18/17 11:36	WI170809-6	10		9.8	mg/L	98	90	110			
L40201-01DUP	DUP	10/18/17 12:10			350	357	mg/L				2	20	
L40201-02AS	AS	10/18/17 12:10	SO4TURB20X	10	356	363	mg/L	70	90	110			M3

Thallium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433345													
WG433345ICV	ICV	10/11/17 17:22	MS170901-1	.05		.0552	mg/L	110	90	110			
WG433345ICB	ICB	10/11/17 17:26				U	mg/L		-0.0003	0.0003			
WG433345LFB	LFB	10/11/17 17:29	MS171009-2	.0501		.049	mg/L	98	85	115			
L40201-01AS	AS	10/11/17 18:33	MS171009-2	.0501	U	.05034	mg/L	100	70	130			
L40201-01ASD	ASD	10/11/17 18:42	MS171009-2	.0501	U	.04951	mg/L	99	70	130	2	20	

Thallium, total M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433433													
WG433433ICV	ICV	10/12/17 14:49	MS170901-1	.05		.05376	mg/L	108	90	110			
WG433433ICB	ICB	10/12/17 14:52				U	mg/L		-0.0003	0.0003			
WG433097LRB	LRB	10/12/17 14:55				U	mg/L		-0.00022	0.00022			
WG433097LFB	LFB	10/12/17 14:58	MS170919-2	.0501		.0523	mg/L	104	85	115			
L40201-02LFM	LFM	10/12/17 15:33	MS170919-2	.0501	U	.05195	mg/L	104	70	130			
L40201-02LFMD	LFMD	10/12/17 15:36	MS170919-2	.0501	U	.05197	mg/L	104	70	130	0	20	
L40347-01LFM	LFM	10/12/17 15:55	MS170919-2	.0501	U	.0519	mg/L	104	70	130			
L40347-01LFMD	LFMD	10/12/17 15:58	MS170919-2	.0501	U	.04969	mg/L	99	70	130	4	20	

Vanadium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433049													
WG433049ICV	ICV	10/09/17 17:25	II171002-1	2		2.0198	mg/L	101	95	105			
WG433049ICB	ICB	10/09/17 17:31				U	mg/L		-0.015	0.015			
WG433049LFB	LFB	10/09/17 17:44	II171003-4	.4985		.5319	mg/L	107	85	115			
L40201-04AS	AS	10/09/17 19:01	II171003-4	.4985	U	.5249	mg/L	105	85	115			
L40201-04ASD	ASD	10/09/17 19:04	II171003-4	.4985	U	.5121	mg/L	103	85	115	2	20	

Vanadium, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433081													
WG433081ICV	ICV	10/09/17 15:09	II170922-1	2		2.0178	mg/L	101	95	105			
WG433081ICB	ICB	10/09/17 15:15				U	mg/L		-0.015	0.015			
WG432962LRB	LRB	10/09/17 15:28				U	mg/L		-0.011	0.011			
WG432962LFB	LFB	10/09/17 15:31	II171003-4	.4985		.5138	mg/L	103	85	115			
L40201-03LFM	LFM	10/09/17 15:44	II171003-4	.4985	U	.513	mg/L	103	70	130			
L40201-03LFMD	LFMD	10/09/17 15:47	II171003-4	.4985	U	.5122	mg/L	103	70	130	0	20	

Environ International Corp.

ACZ Project ID: ***L40201***

Zinc, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433049													
WG433049ICV	ICV	10/09/17 17:25	II171002-1	2		1.978	mg/L	99	95	105			
WG433049ICB	ICB	10/09/17 17:31				U	mg/L		-0.03	0.03			
WG433049LFB	LFB	10/09/17 17:44	II171003-4	.4942		.548	mg/L	111	85	115			
L40201-04AS	AS	10/09/17 19:01	II171003-4	.4942	.55	1.055	mg/L	102	85	115			
L40201-04ASD	ASD	10/09/17 19:04	II171003-4	.4942	.55	1.047	mg/L	101	85	115	1	20	

Zinc, total M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG433081													
WG433081ICV	ICV	10/09/17 15:09	II170922-1	2		1.956	mg/L	98	95	105			
WG433081ICB	ICB	10/09/17 15:15				U	mg/L		-0.03	0.03			
WG432962LRB	LRB	10/09/17 15:28				U	mg/L		-0.022	0.022			
WG432962LFB	LFB	10/09/17 15:31	II171003-4	.4942		.53	mg/L	107	85	115			
L40201-03LFM	LFM	10/09/17 15:44	II171003-4	.4942	.55	1.06	mg/L	103	70	130			
L40201-03LFMD	LFMD	10/09/17 15:47	II171003-4	.4942	.55	1.066	mg/L	104	70	130	1	20	

Environ International Corp. ACZ Project ID: ***L40201***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L40201-01	WG433433	Antimony, total	M200.8 ICP-MS	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [< MDL].
	WG433035	Chloride	SM4500Cl-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG433845	Sulfate	D516-02/-07 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L40201-02	WG433433	Antimony, total	M200.8 ICP-MS	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [< MDL].
	WG433035	Chloride	SM4500Cl-E	RA	Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).
	WG433845	Sulfate	D516-02/-07 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L40201-03	WG433433	Antimony, total	M200.8 ICP-MS	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [< MDL].
	WG433845	Sulfate	D516-02/-07 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L40201-04	WG433433	Antimony, total	M200.8 ICP-MS	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [< MDL].
	WG433845	Sulfate	D516-02/-07 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L40201-05	WG433433	Antimony, total	M200.8 ICP-MS	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [< MDL].
	WG433845	Sulfate	D516-02/-07 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L40201-06	WG433433	Antimony, total	M200.8 ICP-MS	LA	Recovery for target analyte in the control sample (LCS or LFB) exceeded the acceptance criteria. Target analyte was not detected in the sample [< MDL].
	WG433845	Sulfate	D516-02/-07 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

Environ International Corp.

ACZ Project ID: L40201
Date Received: 09/29/2017 16:44
Received By:
Date Printed: 10/2/2017

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody form or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?		X	
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody form complete and accurate?	X		
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?		X	

L40201-01 : A Green container not received and a new container created from the Raw .

16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp(°C)	Temp Criteria(°C)	Rad(µR/Hr)	Custody Seal Intact?
4808	3.4	<=6.0	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

Environ International Corp.

ACZ Project ID: L40201
Date Received: 09/29/2017 16:44
Received By:
Date Printed: 10/2/2017

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

L40201

CHAIN of CUSTODY

Report to:

Name: Josh Myers	Address: 1560 Broadway Suite 1405 Denver, CO 80202
Company: Ramboll Environ	
E-mail: jmyers@ramboll.com	Telephone: 303-382-5461

Copy of Report to:

Name: As Above	E-mail:
Company:	Telephone:

Invoice to:

Name: As Above	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [X] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

Are samples for SDWA Compliance Monitoring? Yes [ ] No [X]

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: J.Myers/J.Keech **Sampler's Site Information** **State** Colorado **Zip code** 81433 **Time Zone** MDT

***Sampler's Signature:**

*I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

PROJECT INFORMATION

Quote #: ASP-Amy-WR

PO#:

Reporting state for compliance testing:

Check box if samples include NRC licensed material?

ANALYSES REQUESTED *(attach list or use quote number)*

	SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	Total TAL Metals	Diss. TAL Metals	Cations/Anions	TSS	TDS	pH	
1	WR SW-01-170427	4/27/17 0945	SW	4	X	X	X	X	X	X	
2	SW-02-170927	4/27/17 1030		4	X	X	X	X	X	X	
3,4	SW-02-170427 (MS/MSD)	4/27/17 1030		8	X	X	X	X	X	X	
5	SW-03-170427	4/27/17 1155		4	X	X	X	X	X	X	
6	SW-03-170427-FD	4/27/17 1255	↓	4	X	X	X	X	X	X	

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

SW-01-170427 was not field filtered, please run lab filter on same container for Diss. analysis

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Josh Myers	4/28/17 1315	EJS	4/29/17 1644

L40201 Chain of Custody

FRMAD050.06.14.14 White - Return with sample. Yellow - Retain for your records.

L40201-1711201007

Sample 1 - "SW – 01 – 170927" Was Not Filtered (as per COC) 1 Poured off Green F.H. AC

Sample 2 - Bag is labeled "ASP-AMY-SW 02 MS/MSD ". The bottles are labeled "SW-02-170927 1030" It seems like the bags are switched.

Sample 3 - Bag is labeled "ASP-AMY-SW 02 MSMSD". The bottles are labeled "SW-02-170927-ms/msd 1030". The COC says 8 bottles. Two Bags. Two Samples.

Sample 4 (Sample 3 part 2, as per COC) - Bag is labeled "ASP-AMY-SW 02". The bottles are labeled "SW-02-170927-ms/msd 1030"

Sample 5 – "sw-03-170927". Seems normal.

Sample 6 – "sw-03-170927-FD". Seems normal.

Appendix C

Field Notes

Location Silverton, CO Date 9/27/17

Project / Client ~~Aspen~~ Amy

Scale

0700 HASP meeting topics include: Joel K
Josh M
- cold
- weather approaching
- abandon mines
- slips / trips / falls
- no cell service

0710 Pull out cabin

0715 on road to site

0725 At site, prep packs

0820 Hike to Amy Tunnel ponds

0835 Drainage diverges to Northeast from road
photo 26624

0930 Upper Pond, collected parameters
photo # 26689 - 26692
GPS Tag SW01
Temp: 4.53°C Turb: 0.20 NTU
Cond ~~0.733 mS/cm~~ 0.447 mS/cm
DO% 94.4
DO 10.84 mg/L
pH 6.84
ORP 79.5

12

Location Silverton, CO Date 9/27/17

Project / Client Aspen + Amy

0945 Sample SW-01 * did not FF

1005 No water in lower tank, beaver dam failed.
At lower pond outfall below beaver dam above animas river
GPS SW02
Photo # 2711
Temp 4.47°C pH 7.65
Cond 0.434 ms/cm ORP 99.8
DO% 75

1030 Sample SW-02 pH4 MS/MSD

1035 Sample orange sediment near SW-02 below lower pond and beaver dam fail

1040 SED-01
Photo #2712
GPS Tag SED01
Oil sheen seen near by on stagnant water

1125 Waste Rock Sample from Amy Tunnel on east side
WR-01
GPS AMY 1-5 (on 4)

13

Location Silverton, CO Date 9/27/17

Project / Client Aspen - Amy

Scale

1135 Amy tunnel waste rock on west side
WR02
GPS AMY 5-10
Photos 2721-2725

1145 Daylight water above Amy tunnel
Waste Rock
SW-03 GPS
Photo #2726
5.60°C 7.28 pH
0.458 ms/cm 113.8 ORP
4.71 mg/L 0.74 NTU

1155 SW-03 plus Field Duplicate

1220 SED-02
Dry drainage seen above Amy tunnel/ aspen waste rock below aspen waste rock
No water
photo 2727-2730
GPS: SED02

1245 SED-03
New base of Aspen waste rock

14

Location Silverton, CO Date 9/27/17

Project / Client Aspen + Amy

1252 Aspen waste rock east composite
GPS ASP01-ASP05

1302 WR-03 w/ field duplicate
photos # 2733-2737

1305 Aspen waste rock west composite
GPS ASP06-10
photos #

WR04

1330 leave site

1400 Done reloading

1700 Pack and prep samples

State Of Delaware

Entity Details

8/14/2020 6:00:09PM

File Number: 3922197
Incorporation Date / Formation Date: 2/4/2005
Entity Name: ASARCO LLC
Entity Kind: Limited Liability Company
Entity Type: General
Residency: Domestic
State: DELAWARE
Status: Good Standing
Status Date: 2/4/2005

Registered Agent Information

Name: THE CORPORATION TRUST COMPANY
Address: CORPORATION TRUST CENTER 1209 ORANGE ST
City: WILMINGTON
Country:
State: DE
Postal Code: 19801
Phone: 302-658-7581

Tax Information

Last AnnualReport Filed: 0
Tax Due: $ 0
Annual Tax Assessment: $300
Total Authorized Shares:

Filing History (Last 5 Filings)

Seq	Description	No of Pages	Filing Date mm/dd/yyyy	Filing Time	Effective Date mm/dd/yyyy
1	Amendment 9216365	1	3/31/2005	1:41 PM	3/31/2005
2	Merger [Survivor]	3	2/17/2005	1:59 PM	2/17/2005
3	LLC	3	2/4/2005	6:55 PM	2/4/2005

An official website of the United States government.

Close

We've made some changes to EPA.gov. If the information you are looking for is not here, you may be able to find it on the EPA Web Archive or the January 19, 2017 Web Snapshot.

Case Summary: ASARCO 2009 Bankruptcy Settlement

ASARCO Bankruptcy Settlement Resources

- EPA Funded Sites and Communities associated with the ASARCO Bankruptcy Settlement

June 2009 ASARCO Settlement Agreement

- Custodial Settlement Information Sheet
- Miscellaneous Federal and State Settlement Information Sheet
- Montana Sites Settlement Information Sheet
- Residual Site Settlement Information Sheet
- Texas Sites Settlement Information Sheet

As a result of the largest environmental bankruptcy in U.S. history as of 2009, EPA, along with other federal and state agencies pursued and received $1.79 billion to fund environmental cleanup and restoration under a bankruptcy reorganization of American Smelting and Refining Company LLC (ASARCO). EPA, along with the departments of Justice, Interior, Agriculture announced the settlement on December 10, 2009 following the bankruptcy and district courts approval of ASARCO's Plan of Reorganization.

In total, the payment will address environmental cleanup and restoration at more than 80 sites around the country. Much of the money paid to the United States will be placed in special accounts in the Superfund to be used by EPA to pay for future cleanup work. It will also be placed into accounts at the Department of Interior and the Department of Agriculture to pay for natural resource restoration.

On this page:

General Information on the Bankruptcy and Environmental Claims
ASARCO Company Information
Bankruptcy Milestones
Settlement Agreements with EPA

General Information on ASARCO Bankruptcy and Environmental Claims

For EPA, which is receiving approximately $1 billion for future cleanup of Superfund sites, it represents the largest bankruptcy settlement in the history of the Superfund program as of the date of the announcement, December 10, 2009.

> "Today's landmark enforcement settlement will provide almost one billion dollars to clean up polluted Superfund sites. This will mean cleaner land, water, and air for communities across the country."
>
> Cynthia Giles, Assistant Administrator for the EPA's Office of Enforcement and Compliance Assurance

The amount represent full payment of EPA's claims, plus interest. Funds are being distributed pursuant to settlement agreements approved in 2007, 2008, and as most recently as June 2009. Of the almost $1 billion, $436 million was a cash payment toward future cleanup costs at the Bunker Hill & Metallurgical Complex site in Idaho, the largest "cashout" amount ever for the Superfund enforcement program, to date.

The cost recovery settlement for the Omaha Lead site in Nebraska provides payment of $130.4 million for past costs incurred by the Agency, the largest cost recovery amount achieved by the Superfund enforcement program for a single site.

Five settlement agreements were approved by the Bankruptcy Court in June 2009, but the bankruptcy and district courts had to approve ASARCO's Plan of Reorganization before funds from all the settlement agreements could be distributed. Funds were distributed December 9, 2009. An overview of the 2009 agreements is below.

ASARCO Company Information

ASARCO is a fully integrated miner, smelter and refiner of copper in the United States. ASARCO's domestic mines annually produce approximately 350 - 400 million pounds of copper. Significant copper mines include the Mission, Silver Bell and the Ray open-pit mines, all three in Arizona.

ASARCO was originally organized in 1899 and has operated for over 100 years, first as a holding company for diverse smelting, refining, and mining operations throughout the United States and now as a Tucson-based integrated copper mining, smelting, and refining company.

ASARCO is a subsidiary of ASARCO Inc., itself a subsidiary of Americas Mining Corporation, which is owned by Grupo Mexico.

Bankruptcy Milestones

- On August 9, 2005, ASARCO filed for reorganization under Chapter 11 of the Bankruptcy Code in the United States Bankruptcy Court for the Southern District of Texas, Corpus Christi Division.

- On August 1, 2006, the United States filed a bankruptcy proof of claim on behalf of EPA with the United States Bankruptcy Court for the Southern District of Texas, Corpus Christi Division in the ASARCO Chapter 11 bankruptcy.

- In March 2008 the Bankruptcy Court for the Southern District of Texas, Corpus Christi Division approved the process by which ASARCO would pursue the selection of a plan sponsor and sale of its operating assets.

- After a bidding process for the purchase of ASARCO's assets, Sterlite (USA), Inc., a subsidiary of Vedanta Resources plc (an Indian corporation), on May 30, 2008, executed a purchase and sales agreement in the amount of $2.6 billion for ASARCO's assets. After the purchase and sales agreement was executed, copper prices began to decline, and on October 14, 2008, Sterlite representatives informed the United States Bankruptcy Court for the Southern District of Texas, Corpus Christi Division that the company could not honor the contract.

- The Debtor and Sterlite, however, were able to execute another purchase and sales agreement in March 2009.

- On June 5, 2009, the Bankruptcy Court for the Southern District of Texas, Corpus Christi Division approved five settlement agreements which provided recovery on environmental claims at numerous Superfund sites throughout the country. See section on settlement agreements below

- ASARCO's Parent submitted its own plan of reorganization to the Bankruptcy Court for the Southern District of Texas, Corpus Christi Division.

- On November 13, 2009, the District Court for the Southern District of Texas, Corpus Christi Division accepted the Bankruptcy Court's Recommendation to confirm the Parent Plan.

2009 Settlement Agreements with EPA

Custodial Trust Settlement Agreement
Miscellaneous Federal and State Sites Settlement Agreement
Montana Sites Settlement Agreement
Residual Sites Settlement Agreement
Texas Sites Settlement Agreement

The Custodial Trust Settlement Agreement

The settlement resolves claims pertaining to past and potential future work performed at approximately 18 ASARCO-owned sites in 11 states by transferring to this custodial trust certain real property that ASARCO owns but is not operating, and funding the trust with over $70 million. The settlement agreement provides funding in the amount of $70,955,493 million to clean up the sites and to fund the administrative expenses associated with the custodial trust. More information is available on the Custodial Trust Settlement Agreement information sheet.

The Miscellaneous Federal and State Sites Settlement Agreement

The settlement addresses 26 federal and state sites. It resolves claims filed against ASARCO by EPA, USDA's Forest Service (FS), the United States International Boundary Water Commission (IBWC), and four states. The settlement agreement provides funding in the amount of $104,814,679 to clean up the sites and to fund the administrative expenses associated with the trust. More information is available on the Miscellaneous Sites Settlement Agreement information sheet.

The Montana Sites Settlement Agreement

The settlement establishes a custodial trust for 5 ASARCO-owned sites in the State of Montana. The settlement agreement requires the creation of a trust, with separate accounts for each site, and provides funding in the amount of $138 million to oversee cleanup and redevelopment of the sites. More information is available on the Montana Sites Settlement Agreement information sheet.

The Residual Sites Settlement Agreement

The settlement resolves claims pertaining to past and future cleanup costs associated with the following three sites:

1. The Coeur d'Alene Superfund Site, Northern Idaho ("Coeur d'Alene");
2. The Omaha Lead Superfund Site, Omaha, Nebraska ("Omaha Lead"); and
3. The Tacoma, Washington Environmental Site (a state site) ("Tacoma").

More information is available on the Residual sites agreement information sheet.

The Texas Sites Settlement Agreement

The settlement agreement sets up a trust for funds to cleanup the El Paso Smelter and the Amarillo Smelter. The State of Texas is overseeing this trust and receiving the funds. EPA is a signatory to this agreement. More information is available on

the Texas Sites Settlement Agreement information sheet.

Contact Information

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COLORADO.

CLEAR CREEK COUNTY.

BOULDER NEST.—A large deposit of rich ore has been struck in the 7th level of this mine."

DUNDERBERG.—The Georgetown *Courier* of March 18th says: "Since the new company assumed control, a large amount of money has been expended in permanent improvements of the most substantial kind. Probably the most important one is the concentrating works, which are now in process of construction, and which will have a capacity of treating 50 tons of crude ore each 24 hours. There is a large amount of concentrating ore already on hand awaiting treatment, some of it being in the old workings, and some on the various dumps, making, probably, altogether some ten or twelve thousand tons, or enough to keep the mill employed for a year. This ore in its crude state carries from 20 to 40 ounces per ton, and will concentrate from 8 to 10 tons into one, making a product worth from $125 to $200 net per ton, or probably enough to pay a dividend of $15,000 per month, which will be one per cent upon the capital stock of the company. It is expected that the concentrating mill will be ready for work by the middle of April.

"Work is going forward on eight levels in the mine, there being about seventy miners regularly employed below ground. Since the present company has had control, levels to the extent of 1193 feet have been opened, and a number of winzes and shafts have been sunk to connect the different levels and facilitate mining operations.

"There are many places in the mine where good-sized veins of concentrating ore are exposed, which are not worked now for the reason that the ore, after being broken, can not be used until the mill is ready to treat it, and until then it will be in the way and hinder other developments."

MAYFLOWER.—The *Miner*, of late date, says: "The present owners are pushing the work forward at a rapid rate, and their labors are being rewarded by large quantities of rich ore. The outcroppings can be traced 900 feet.

"This immense fissure-vein crosses Clear Creek, and extends up the opposite mountain for a long distance. The Brighton, which is the main tunnel, is 5 by 6½ feet in the clear. It is about 250 feet in length, and is run on a continuous body of ore. The vein runs northeast and southwest. The first-class ore taken from here mills 600 ounces silver per ton, and carries some gold and copper. Eighty feet from the mouth, winze A has been sunk from the tunnel-level a distance of 100 feet, showing a 4½-foot vein of good ore for the whole distance. The company, at present, is working only 35 men."

CUSTER COUNTY.

BASSICK.—"During the past four months, the Bassick Mining Company has erected hoisting and pumping works, thoroughly timbered the mine throughout, and put down a 3-compartment shaft from the tunnel level to a depth of 160 feet. All this has been paid for out of the production of ore from the mine, and in addition a dividend amounting to $25,000 has been paid. All the ore taken out during this time came from the sinking of the shaft and two short drifts; at the same time, an amount of high-grade ore is reported to have been developed, which adds at least $500,000 to the reserves in the mine. More rapid development and an increased product from the mine are now promised."

BULL-DOMINGO.—"More than a hundred men are now employed on the Bull-Domingo mine, at Silver Cliff. The shaft is down 130 feet, and the statement is made that there is now ore on hand which would justify a dividend of $100,000."

BULL-DOZER.—The *Index* says: "The Bull-Dozer lode, adjoining the famous Bassick mine, shows a fine quality of tellurium and chlorides at a depth of fifty feet. The Golden Courier is a sister claim to the Bull-Dozer, and runs about twenty-five ounces in gold."

PLATA VERDE.—The *Economist* of March 20th says: "The mill (forty stamps) manufactured by Morey & Sperry, of New York, which had arrived at the terminus of the railroad, thirty miles from Silver Cliff, has been taken across the mountains and landed in good condition at the mine. The mill site has been graded and the foundations are laying and all preliminary work doing preparatory to its erection, which will be accomplished by early summer."

"The character of the ore is a chloride, and is worked successfully by raw amalgamation. It has been demonstrated in the mills already constructed, that Silver Cliff ores are far richer than was supposed, and that a much larger percentage of silver can be saved than was at first considered possible. The ore-bodies are so vast and so rich that the profits are very large, and must continue for years. The location of the mine is very favorable for mining, and the mill so placed that the expense of mining and milling will be reduced to a minimum, costing much less than at any other mine in the district."

RACINE BOY.—The working force on the Racine Boy mine, at Silver Cliff, has recently been increased. A new tramway, which will greatly facilitate the taking out of ore, is building, and will soon be completed.

A RAILROAD TO SILVER CLIFF.—The Pueblo *Chieftain* gives the particulars of the organization of a company for the purpose of building a railway to Silver Cliff. The company is to be called the Pueblo & Silver Cliff Railway Company, and the object of the corporation is to construct a line of narrow-gauge railroad from Pueblo to Silver Cliff, via Red Creek Springs and Rosita. The route of the road, as at present projected, will be up the Arkansas River to Rogerville, thence to Red Creek Springs, and by the most available route to Rosita and Silver Cliff. The company hopes to have the road in operation as far as Red Creek Springs by the Fourth of July next.

LAKE COUNTY.

The Breece Mining Company's claims, says the Leadville *Herald*, "are shipping an average of seventy-five tons of ore daily. This will be increased as soon as the demand requires it, as the amount that could be produced is almost beyond limit."

CHRYSOLITE.—The *Democrat* says: "The small engine inside of the Roberts shaft, that was doing the work while the present magnificent machinery was being put in position, has been taken out preparatory to starting the second cage.

"The numerous streaks of high-grade mineral, running through the large body that has been struck lately, have largely increased the mill returns, though the permanent value of the property is in the great mass giving a hundred ounces average rather than streaks or pockets containing a thousand.

"The sinking of the No. 4 shaft is advancing and the bottom is still in ore. All faces and drifts are looking and yielding well. The total amount of ore shipped to smelters since the first of March foots up 2357 tons. Vulture shaft No. 4 has been started."

IRON MINE.—The *Herald* of March 17th says: "Mr. Keyes, the general manager, is pushing his plans for the working of the Iron mine. New and powerful machinery is to be erected at once at the mouth of the main incline, extensive ore-rooms are to be built, and the mine made to rank among the most productive properties in the camp. While mining of ore will be a feature in the future, as it has not been in the past from this extensive property, the development drifts will be pushed forward as rapidly as heretofore. Nearly two miles of drifts have already been driven in the mine, and exposed immense bodies of ore. There will be no difficulty, Mr. Keyes thinks, as soon as hoisting-facilities are sufficient, to produce two hundred tons of ore per day."

LEE.—The *Democrat* says: "The roof of each of the new buildings, the addition to the ore and shaft house and the leaching works are completed. The old building inside the new will be torn away, and it is supposed that the superintendent will be able to make a trial run of his process applied to the Lee ore in a few weeks."

LITTLE CHIEF.—"A shaft has been commenced on this mine that will eclipse any thing yet attempted on Fryer Hill. It is but a short distance east of the Roberts, and in the north end of the claim. It is sixteen by five feet in the clear, built of eight-inch square sawed timbers on the plan followed in timbering up excavations, thus making the shaft, with its three compartments, divided, with the same size plates a series of timber sets. On the outside of this, two-inch plank will be used, instead of the ordinary lagging timber. The shaft is now down about forty feet, and, on account of its size and the large force of men employed, it is being driven with a rapidity that is wonderful. To cover this, will be a shaft-house and machinery of the finest pattern, and on a par with any yet built. On the completion of this, in about sixty days, it will be the main working shaft of the Little Chief mine. Levels are already run to the point it will strike, while the bulk of the ore-body below and the superior advantages of the surface site will make the location especially desirable."

LITTLE PRINCE.—The *Herald* says: "One of the best properties on the hill is the Little Prince, directly north from the Nettie Morgan. The drift running southeast at a depth of 243 feet, has now reached fifty-six feet in length, and is still farther being continued. At the end the contact seems to dip and the ore is found on the floor and lower part of the drift. At forty feet from the shaft, two side-cuts extend, one to the southwest fifteen feet in length, and the other to the northeast thirty feet. All the material taken from these side-cuts is contact matter. Some remarkably fine material has been taken out lately, and has given good returns. At the ore-house yesterday were a number of tons, awaiting shipment, and assorted in three different lots. The contact in the Little Chief is very similar in size and appearance to that of the Highland Chief. It is enormous in size, and only in places as yet enough concentrated. It will, however, beyond doubt, prove one of the bonanzas of Breece Hill. Every thing about the mine deserves commendation. The shaft-house and machinery are among the best in the camp. The shaft is boarded up from top to bottom and in excellent shape. The drift is timbered some fifteen feet from the shaft."

NETTIE MORGAN.—"Directly east from the Breece Iron is the Nettie Morgan. This property is looking remarkably well. Drifts are being extended on the contact, and some very rich gold ore has been taken out."

SCOOPER.—"The shaft-house has been completed, and the new engine placed on the mine is in operation. In addition to these surface improvements, the shaft has been planked up, and the main drift running to the southeast is securely timbered. This drift will be pushed forward rapidly, as well as others extended, and cross-cuts also run. In the work of development, so far pushed, about fifty tons of good ore have been mined and hoisted, and from eight to ten tons are now daily taken out. This amount will soon be largely increased."

SAN JUAN.

The Silverton *Miner* of the 16th makes the following announcement: Negotiations have been in progress for more than a year looking to the sale of Green & Co.'s smelter and mill sites and their mines on Hazleton Mountain. We are now permitted to announce the consummation of the sale of this property. The purchasers are W. J. Palmer, President of the Denver & Rio Grande Railway, and a syndicate of Eastern capitalists, most of them interested in the Denver & Rio Grande road. The price paid is $210,000 in cash, on the basis of $60,000 for the Aspen, the most valuable mine of the group. The following is a list of the property sold: Aspen, Susquehanna, Susquehanna Tunnel, Mammoth, Victor, J. L. P. Tunnel, Greene & Co.'s mill sites and Greene & Co.'s smelter. The sale is completed and the papers are now on record. It is the intention of the new company to run the smelter to its full capacity during the summer, and to place the mines in shape to produce the largest amount of ore possible.

SUMMIT COUNTY.

ROBINSON CONSOLIDATION.—Of this property, the Leadville *Democrat* of March 18th says:

"Prominent among the great bonanzas is the group of mines on Sheep Mountain, Ten Mile District, owned by the Robinson Consolidated Mining Company. The ten claims form practically a square, or as compact ground in the surface area as the number of locations will admit of, and consisting of about 48 acres. The lode is a contact-vein running northwest and southeast, and with a dip at an angle of 20 northeast into the hill.

"It is well defined throughout, the workings are uniform in a width of about five feet, except where the wave of the limestone foot-wall pinches it to two feet in the narrowest place, and widens in others to as much as fifteen feet, with an average in excess of the measurement first given. The walls are very smooth and regular, composed of dolomitic limestone for the foot, and a metamorphosed grit for the hanging-wall.

"Its silver value is of a high average grade. From the beginning of work to the present extensive development, the lode has given from every thing between walls the average of 138 ounces silver and about 20 per cent of lead. It may be said that nearly this grade is left on the dump, while only the highest has been shipped to Leadville and elsewhere for treatment.

"The development is comparatively small. A main incline, starting on the outcrop of the vein of the '78' location, the lowest of the group, is the principal working of the mines at present. It has reached a distance of three hundred and twenty-five feet from the mouth. The surface improvements compose what is known as Robinson's camp, and with what is under way, in addition to the buildings already up, will make quite a village, and every thing that is necessary for mining and comfort of the employés. Among the latest about ready for work is a handsome twenty-five horse-power upright engine, with cable drum and 1000 feet of three-quarter inch wire-rope, planted at the mouth of the main incline and covered with a comodious structure, including blacksmith timber shop, etc. The car track in the incline is extended out to an ore-house, with bins and chutes for loading into wagons, and also to the ore-dump, which is held for local treatment.

"From a report made six months ago by Mr. W. S. Keyes and Mr. J. B. Low, an estimate of over one million dollars, after deducting for every possible expense connected with mining and an additional deduction for unforeseen contingencies, was fixed by them as the ore then in sight. Since then, the development has nearly doubled, the vein has proved more regular, and the ore better. From discovery to September, 1879, the mines produced nearly one thousand tons of ore, one fourth of which was shipped, giving average mill returns of one hundred and eighty ounces of silver and seventeen per cent of lead to the ton, or something near $47,000. For some months past, the output has been increased, averaging about thirty tons daily, and the shipments for the ten days up to Saturday last, amounting to three hundred tons to the smelters in Leadville, gave the enormous average of two hundred and forty-eight ounces in silver and about twenty per cent lead. In the near future, we predict, without fear of dispute, that the consolidation will be among the heaviest producers of Colorado mines.

"They are now producing considerably over a hundred thousand dollars a month, and against many expensive disadvantages, which can be in time done away with. On the completion of the dead-work and the improvements now under way, a large but necessary outlay will be stopped, while the starting up of the Robinson smelter within a mile of the mines will reduce the cost of treatment fully one half."

The Leadville *Herald* of same date, in the same connection, says:

"The entire shipments from the mine, up to the tenth of March, the date when the new company took possession, amounted to over two thousand tons. In addition to this, there are fully a thousand tons of ore on the dump at the mine, containing from ninety to 120 ounces of silver to the ton. Some of the ore contains a large percentage of sulphur, and it is therefore deemed advisable to roast it before shipment."

GENERAL NOTES.

The Denver *Tribune* says:

"The Saltiel Mica and Porcelain Company shipped, on the 12th inst., twenty-

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body, and apparently quite rich in both silver and lead. One encouraging fact in connection with the exploration-work now in progress from No. 4 shaft is that ore-bodies, now in sight, though not developed so that any correct idea may be formed of their extent, are so located that there is no doubt that they extend below the old workings or into the unexplored territory of the Winnemuck, and large space between the shaft and Amie line.

The New Discovery shaft was next visited, and the workings extending from it explored. The drift running northward is continued, though it does not show up very promising at the present time, but will be pushed on until the great mass of iron in the northwest corner of the New Discovery is fully explored. Occasionally this drift shows up very well, and gives promise of early success, and then again presents a very discouraging aspect. A fair body of mineral was found on the east side of this drift, about sixty feet from the shaft, and followed across the old drift in a western course, where it opened out into a body ten feet in thickness, but gradually pinched out, leaving a small streak running north, which is now followed with varying success. Another streak of good ore, some distance north of this last-mentioned streak, is pursued in its meandering course through the iron, sometimes opening up into a fair-sized pocket, then again reduced to twelve or eighteen inches. From the southern extremities of the old workings, a drift has been commenced, running south, intended to connect with a north drift from No. 5 shaft. About fifty-six feet yet remain to be driven to effect the connection. Except driving the north drift from No. 5 shaft, no work of importance is doing in this, the most southern of the Little Pittsburg shafts.

The No. 6 shaft, located north of No. 4, on the Little Pittsburg, is as yet but a prospect-shaft, no mineral having ever been found in it or any of its connections. The shaft is down 200 feet, and has three drifts. The most prominent of these is the northwest drift, which has attained a length of 141 feet, and lately crossed over into the Dives property. The face of the drift yesterday morning was in far more encouraging material than it has been at any time heretofore, and indications are, that iron will soon be encountered. Thus far, the drift has been run altogether in porphyry. The next in importance is the west drift, which tapped the workings of the Little Chief the other day. This drift is in black iron, badly broken, with some decomposed porphyry interspersed. It will now be turned south, leaving the Chief line a little to the right. The third drift runs nearly north a distance of 72 feet, and, showing no favorable indications, work on it has been temporarily suspended. There is little doubt but that all the drifts radiating from No. 6 shaft are too high; but as they had been pushed in a considerable distance, and a large amount of work done on them, Mr. Canda concluded to complete them to the side-lines, when winzes can be sunk and the territory thus explored at a less expense, rather than to commence the work over again lower down. The Little Pittsburg's pay-roll at present contains about 180 names, and the expenses per month are about $14,000.

The ore-shipments continue to average twenty tons per day, the bulk of which is first-class ore, and there is no doubt that the surplus fund of the company is receiving additions weekly.

SILVER CORD.—The workings of the Silver Cord combination of mines are finally getting into good shape, whereby a large and steady yield of ore may be expected. Under the new superintendency of Arthur B. Litchfield, the mine manager, it was found that, after passing through the supposed bed-rock in the Silver Cord main incline, the ore-body already exposed is thirty feet in thickness, with the foot-wall not yet reached, and carrying mineral of high grade. The mineral immediately above the supposed bed-rock, and through which over 300 feet of drifts and levels have been run, gives an additional thickness of from 20 to 25 feet before the hanging-wall appears, and contains hard gray carbonates, assaying 90 ounces to 257 ounces in silver and 58 per cent in lead. The thickness of the contact-matter between porphyry and lime shows this to be an extraordinary deposit; and when stoping ground is fairly opened up, following the true bed-rock, the yield of paying ore from these mines will be a material addition to the general output of first-class ores.

PARK COUNTY.

The Fairplay *Flume* of the 5th inst. notes the following:

BIG CHIEF.—The Big Chief Mining Company, operating in Buckskin, is taking out some of the prettiest lead ore ever shown in Alma, from the Fielding Steele. This claim is in the Big Chief group and lies near Timberline town in the gulch The ore is taken from a tunnel run into the hillsides and will assay fully 65 per cent in lead. The Hart lode, belonging to the same group and lying right at the old town of Buckskin, is the best developed and best looking of the company's property. The mine has been worked without cessation since March last and has shown some good ore. They have a 120-foot drift and a 30-foot shaft on the claim, and are going on with the work of development, leaving the ore in place in the mine

DOLLY VARDEN.—The Dolly Varden Company, summing up the result of the year's work, ending June 27th, shows that during that period it has sold to the Boston & Colorado Smelting-Works here, 554·64 tons of ore from its mine. During the past four months, very little work has been done on the mine, the largest part of the force being engaged on the lower tunnel driving into the mine. The actual value of this ore as computed at the market price is $86,317.88.

SACRAMENTO.—Late events indicate the presence of a bonanza in the Sacramento Company's property on a lower level than any of the present workings. It has from the first start-out been the intention to prosecute development at greater depths; but with a splendid vein of sulphuret ore to follow on almost a level, this object was for a short time lost sight of. The presence of a porphyry dike in the breast of the Lark tunnel caused a revival of the subject, and a winze was started to explore it. This winze was less than 90 feet deep last week, when the workmen struck a mineral vein that is now eighteen inches thick, and is of the highest grade ever taken ont of the mine.

SAN JUAN COUNTRY.

SAN JUAN & N. Y. CO.—A correspondent of the Denver *Tribune*, writing from Silverton, says: Greene & Co. erected the first smelter in this part of the State, in 1875, under serious difficulties, freighting material and machinery over roadless mountains. The brick used in furnace and stack cost $1.15 each. The ores treated running high in lead, the bullion was necessarily quite bulky, increasing the expense of transportation, hence low prices were paid for ore; yet, with a ten-ton furnace, $400,000 worth of silver and lead were sent out in about twelve months of actual work. The smelter is now the property of the San Juan & New York Mining and Smelting Company, which also owns the Hazleton group of mines, three miles above town. A majority of the trustees are Denver & Rio Grande railway men.

The Aspen mine, of this group, has been the largest silver producer in the San Juan. The new company starts out well, having $150,000 of working capital; and the early completion of the railway to an accessible point, and the fact that the mines are in a proprietary position to receive special favors, the cost of reducing ores will be reduced from an exorbitant rate to about $24 per ton, the old price having been about $50. The yield of the Aspen—the oldest mine in the district—up to 1880 has been $178,558. One thousand feet of levels, shafts, and tunnels, and 1768 fathoms of ground had been excavated, with an average value or return of $60 per fathom, up to the autumn of 1878. The vein is about four feet wide, having a pay-streak of two to eight inches. This company owns also the Mammoth, McGregor, Victor, Legal Tender, and the Ingersoll and J. L. P. tunnels, which intersect. It has about 4000 feet of development. The veins dip under the summit of the mountain. The upper or Ingersoll tunnel is now in 1400 feet, and is actively worked by a large force. A large room is clearing for a steam-engine, at a point 800 feet from the surface of the Ingersoll tunnel. A new tunnel is starting on a level with the Ingersoll.

SUMMIT COUNTY.

The Leadville *Herald* has the following items from Ten Mile: On the White Quail, a number of cross-cuts and drifts are running. The ore-body in all the ground above the main level is looking exceedingly well, and a large amount of galena has been exposed. Shipments of ore to the Pittsburg smelter have been stopped and the furnace has been compelled to close in consequence. In the Snowbank, at a depth of 106 feet, drifts are running both north and south. The former is 27 feet in length and has reached the Tiger line. It is in a large body of pyrites of iron. The south drift is 50 feet in length and has developed a good body of galena. The Forest group closed down, awaiting new machinery. The Champion and Rambler, belonging to McDonald and Fisher, are working well. Open cuts are running on these properties, and a large amount of ore has been taken out. A streak of galena has been found in the Cozzens lode, one of the Wabash group. In the Raven group, on Elk Mountain, the tunnel is in 200 feet, and the breast of the tunnel is looking well. The Ten Mile & Clifton Gulch Mining Company has completed the ditch, which is a mile in length, and the water has been turned in. Parties from Chicago have recently purchased a half-interest in this property. A test just made of this ground returned an ounce and a half of gold from two and a half days' shoveling of two men. It will thus be seen that by hydraulic work a large return is provided.

The Kokomo *Times* says: The Summit smelter is progressing rapidly, the framework being all out and the process of erection to begin in earnest. It is said that the works will be in complete running order in eight or ten days. Three thousand cords of fine wood are already delivered, and from 150,000 to 200,000 bushels of charcoal have been burned for its use. Mr. Brown has recently made a change in the manner of working the Robinson. He now employs every man by contract, and not by the old method of so much per day. The manager considers this arrangement much more satisfactory both to the laborers and stockholders. The mineral is looking much better than ever before. The ore-body is widening out at the bottom, and in the cross-cut at this place the last assays showed 260 ounces in silver and 38 per cent lead. The manager also employs a greater number of men than at any former time.

CANADA.

LEGISLATION.—The prospectus of the Beauce Gold Mining and Milling Company (Quebec) contains the following reference to the legislation of last session on this subject, contrasted with the previous state of affairs:

About the year 1864, a strong mining excitement had sprung up, and a large population flocked to the district, particularly to the Gilbert River, as being the place most prospected, and therefore the best known. Although the capital which came in at this time was mostly speculative, the richness of the mines was such that great developments would have been made but for the regulations of the district, which ground the mining industry to ruin, between oppressive government laws and seignorial monopolies. As a result, the whole business was paralyzed and dropped, and the poorer miners driven out as thieves by the mounted police. A more thorough smothering of a rich mining region was never seen. But of late, these matters have been done away. The government has made a reasonable code of mining regulations, amounting to simply a small per capita license-fee on the owners, and the seignorial claims have also been greatly modified, and will probably soon be done away with altogether. As the matter now stands, mining may be prosecuted with facility and cheapness.

SHERBROOKE DISTRICT, NOVA SCOTIA.—Fifty-five men are employed at the Wellington and Palmer gold mines, Goldenville, on the Dewar lead, at a depth of 500 feet. The monthly yield is 150 ounces of gold. The Meridian mine is paying well, the output of 264 tons of quartz in June yielding 169 onnces of gold. Messrs. J. W. Glencross and D. W. Crockett are negotiating with the Toronto owners for the purchase of this mine. The price is stated to be $1000. The other mines are all paying well.

DAKOTA.

STANDBY.—The Deadwood *News* says: Reliable information reaches us to the effect that another 60-stamp mill is to be put up on the Como mine, property of the Standby Mining Company. It is understood that grading is to be commenced immediately between the town of Rochford and the Standby mill. This is the best evidence that the Standby has fully met the expectations of its stockholders, and we shall expect to see with the coming year a half-dozen more enterprises of like character making headway toward milling operations. The bodies of ore in and about Rochford are not to be excelled in extent in this country.

GOLDEN KEY.—The Rochford *Miner* says that day and night shifts are steadily pushing the Golden Key tunnel to completion. It is now 380 feet in length, and must be run at least 50 feet farther before the ledge will be tapped.

IDAHO.

The *Avalanche* has the following mining items:

The Black Jack Company is hauling ore to Leonard's mill.

A rich quartz discovery has been made between Kennedy's Ranch and Antelope Springs, about sixty miles from Blackfoot.

The company owning the Rising Sun mine, Shaw's Mountain, has recently made some valuable strikes in the way of finding the ledge in two or three new places.

The Bonaparte mine, near Rocky Bar, is doing well. The new 20-stamp mill is perfection itself. The Reeser mill is running night and day on Wide West rock, turning out a large amount of bullion.

About 10,000 pounds of ore will soon be shipped from the Columbia mine, in Sawtooth District, to be tested. The ore assays from $900 to $1500 per ton, and there is a good vein of it.

The Clearbrook mine has been leased to two different companies—one to work the first and second levels, and the other working above the third level. Work will shortly be started at other points. The last crushing of 17 tons at the arrastra went nearly $60 per ton. The lot crushed at the Ellmore mill, consisting of 205 tons, yielded over $31 per ton.

ALTURAS.—The Bonanza City *Herald* says: The Vienna, Alturas, and other mines purchased last winter of Bonanza parties, are developing. The superintendent is shipping ore from the Vienna to Salt Lake.

PANAMINT.—The Idaho *World* says: The report that the Panamint mine, at Banner, was sold the other day for $22,000 is confirmed. The money has not yet been paid over, but will be in a short time. Colonel Rogers, who made the purchase, is a well-known quartz expert, and represents Messrs. Hurst, Haggart & Tevis, one of the richest companies of San Francisco.

SALMON RIVER.—The Blackfoot *Register* of the 24th says: Seven tons of machinery for the Salmon River Mining and Smelting Company started out last night. A large lot of freight has been received for the company, that will leave in a few days.

MONTANA.

From the Butte *Miner* of the 1st inst. we extract the following:

ALICE.—The levels are all in excellent shape for producing ore, though at present none is taken out, except what has to be removed in order to extend the drifts. Even this output, however, is more than enough to keep the mill supplied, and several thousand tons have already accumulated at the new mill, now in process of erection. The 700-foot station in the main shaft has been put in. When the sump is finished, upon which the men are now busily engaged, the cross-cut will be run and the 700-foot level started. Judging from the inclination of the vein, as opened up on the No. 5 level, it is thought that the cross-cut will require to be extended 150 feet north before the ledge is tapped.

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GDOC-00058
Page 2 of 2

OBSOLETE

AMERICAN

SECURITIES

AND CORPORATIONS

SECOND VOLUME

ILLUSTRATED WITH PHOTOGRAPHS OF IMPORTANT REPUDIATED BONDS

COMPILED BY R. M. SMYTHE

"The Eternal Saki from that Bowl has pour'd
Millions of Bubbles like us, and will pour."
Rubaiyat of OMAR KHAYYAM.

PUBLISHED BY

R. M. SMYTHE, ROOM 452, PRODUCE EXCHANGE, NEW YORK

DELIVERED ANYWHERE ON RECEIPT OF FIVE DOLLARS

NEW YORK
1911

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1911

Copyright, 1911
By R. M. SMYTHE

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CALIFORNIA

THE TROW PRESS,
NEW YORK

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INTRODUCTION

The first volume of "Obsolete American Securities" met with an unexpected favorable reception, and the limited edition which was printed was speedily exhausted. A list showing the regions, domestic and foreign, to which copies found their way, may, it is thought, interest the reader; and accordingly it is given. (See page xi.)

One very happy effect of the publication was that it led, in a large number of the States, to the passing of various laws regarding extinct corporations and to the keeping by State authorities of more exact records of the status of such corporations. I have generally been able to obtain copies of the revised records, and a list of them will be found later on in what I have called "Various Notes."

Another very natural effect has been the ransacking and re-examination of antique documents in the possession of estates, with the result that there have been brought to light a large number of little known "extinct species."

And this has occurred not solely with regard to securities indigenous to the United States, but also in the case of many of foreign birth which have, so to speak, migrated to our country and become "naturalized."

The compiler has received a vast amount of information, as well as a vast number of requests for information, regarding the recent discoveries; and he believes that the tale which he is able to unfold will prove of interest and possibly of value to the public.

Hence this second volume is making its appearance.

It is not in any sense a reproduction or revision of the first. On the contrary it contains matter that is entirely distinct from the contents of Volume I—matter which relates not solely to securities originating in the United States, but also, as above suggested, to certain securities that have strayed to this from foreign countries, particularly from England.

Of course it is impossible to give even partial histories of the enormous number of corporations and securities which become extinct every year. The book is merely a key. It furnishes a starting point from which to continue the search; but the principal interest of the holders of such securities is to learn as readily as possible whether what they hold has any value or not; and I have indicated this as far as I could in the limited space allotted to each security.

As usual, the lists of deceased mining companies are larger than all others put together; indeed, it is out of the question to keep track of the births and deaths among mining companies.

It has been facetiously suggested that my objection to mining stocks

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Page 3 of 7

must have been based on the amount which I have lost in them. In reply I beg to say that I am a graduate mining engineer and examined a great many mines in the United States many years ago, and never made a favorable report on a mine, nor put a cent into a mining stock. Those mining shares that I have bought were bought only to clean up estates, and were allowed for by the pound!

This refers to the highly speculative and wild-cat gold and silver mines, and does not cover coal mines or copper mines, which are generally legitimate investments.

I am strongly tempted to quote here some articles regarding mining companies which I find in the standard papers of New York; but I am afraid it would do no good, as the papers have a far larger circulation than this book, and those who run can read. If people cannot learn anything from experience and reading the papers, nothing that I can say would be of any use.

Real mining is a grand and most facinating business, but the promoting of mining stocks is an entirely different thing, and generally acts unfavorably on the promoter and all his friends. It is the greatest "continuous performance" swindle in the world. A well-known magazine published in New York gives, in its issue for the month of April, 1911, an excellent insight into the methods and profits of this business. As a rule the only thing to be gained by the purchaser of mining stocks is the added interest and excitement in life from holding a few dollars' worth of something which may be worth millions in your imagination, if you are careful not to make too many inquiries about it. You cannot make money out of these stocks; but you may make experience on a very small outlay, which will save you heavier losses later in life. As far as I can judge, however, from what comes to hand a very large majority of mortals do not learn by experience or by anything else, and those that do generally succeed, and die rich and miserable.

A "Merged List" appeared in Volume I. Many people have overlooked this list, which is very useful and important in tracing securities. In the Second Volume the "Merged List" will of course be very much smaller than in the first, as it covers only the years from 1904 to 1911; while the first volume covered all the important mergers for at least sixty years back; and moreover the proportional number of mergers was much larger in former years than it is at present, on account of the already achieved consolidations of immense numbers of small railroads and the very large number of accomplished foreclosures.

The edition of the first volume was exhausted much more promptly than was anticipated, and as the plates were melted up after its publication, it has been necessary for me to notify all the second-hand book stores that I stand ready to purchase copies.

Of the second volume I intend to print a much larger number.

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ESTABLISHED 1861

MILMINE, BODMAN & COMPANY

401 PRODUCE EXCHANGE BUILDING

NEW YORK, N. Y.

MEMBERS

NEW YORK STOCK EXCHANGE

NEW YORK PRODUCE EXCHANGE

CHICAGO BOARD OF TRADE

The standing of this firm is of the best—conservative and absolutely trustworthy.—THE PUBLISHER

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GDOC-00060
Page 5 of 7

I desire to acknowledge indebtedness to the following publications and parties for much information and assistance:

Commercial & Financial Chronicle, published in New York.
Poor's Manual of Railroads, published in New York.
Moody's Manual of Railroads and Corporation Securities, published in New York.
Poor's Manual of Industrials, published in New York.
Manual of American Water Works, published in New York up to 1897.
United States Investor, published in Boston.
Copper Handbook, published at Houghton, Michigan, by Horace J. Stevens.
Manual of Statistics, published in New York.
Corporation Directory, published in New York by Trow Directory Company.
Stock Exchange Year Book, published annually in London.
Philadelphia Securities, published in Philadelphia, annually up to 1893.
Mines of the United States, published in New York, in 1883.
New York Securities, published in New York in 1893.
Mining Manual, published by W. R. Skinner in London, annually.
State Engineer's Report of New York State, published annually since 1857.
Interstate Commerce Commission Report, issued annually.
Reports issued by the proper Commissions in the majority of the States annually.
Gazetteer of New York, issued in 1860, and possibly later.
Burdett's Official Intelligence of British and Foreign Securities, issued in London, annually.
H. B. Larwill, of Newark, New Jersey, whose sudden death in 1910 was a great loss to the writer and to numerous other friends.
James R. O'Hara, of Boston, who has supplied information about securities of the Eastern States.
W. H. Thompson, of Philadelphia, Pa., who was an expert on oil stocks, and who died suddenly in 1908.

I wish also to thank the Treasurer of the United States as well as several State Treasurers, and many banks and bankers, for the assistance they have given me in ascertaining the standing of extinct corporations in their vicinity.

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San Christian Gold Mining Co. of North Carolina, 1881. Stock worthless.

San Christobal Gold Mines Co. Office in New York. Dissolved 1903.

San Diego Land & Town Co. Incorporated 1881 in Kansas. Stock assessed and property foreclosed 1897. Stock dated prior to 1897, assessments unpaid, has no value. Another company of the same name operating since that date.

San Domingo Exploration Co. New Jersey Charter void 1908. For nonpayment of taxes.

San Domingo Improvement Co. of New York. New Jersey Charter void 1909. For nonpayment of taxes for three years.

San Eulalia Silver Mining Co., New York, 1872. No value found.

San Fernando Mining Co. New Jersey Charter void 1908. For nonpayment of taxes.

San Francisco Cons. Mining Co. Incorporated in Montana 1889. No value found.

San Francisco Co-operative Mercantile Co., San Francisco, Cal. Barred from U. S. mails, Sept. 12, 1904.

San Francisco, Jose & Santa Clara R. R. Out of existence.

San Francisco Land Assn., Philadelphia, Pa., 1856. No trace of this Company and no value found.

San Francisco Mining Co., San Francisco, Cal., 1863. No value found.

San Francisco & Eureka Railway. Not in operation.

San Hedran Gold Mining Co. See Mining Record Key Nos. 4 and 6.

San Ignacio Mining Co., Batopilas, Mex., 1885. No value found.

San Jose Co. of the Isle of Pines. New Jersey Charter void 1907. For nonpayment of taxes.

San Jose Mining & Milling Co., Albion, Neb. Nebraska Charter cancelled 1909.

San Juan Bautista Water Co. New Jersey Charter void 1906. For nonpayment of taxes.

San Juan Consolidated Mining Co., 1882. No value found to stock.

San Juan Gold & Silver Mines Co., 1883. No value found.

San Juan (Ltd.). New Jersey Charter void 1909. For nonpayment of taxes for three years.

San Juan Mining Co. Delaware Charter repealed 1905.

San Juan Mining & Milling Co., West Virginia, 1892. No value found.

San Juan Smelting & Mining Co. Office in New York. Dissolved 1900.

San Juan & New York Mining & Smelting Co., New York, N. Y., 1881. Stock worthless.

San Lorenzo Gold Gravel Mining Co. Mines in Columbia, South America. Office in Indianapolis, Ind., 1882. No value found to stock.

San Miguel Gold & Silver Mining Co. Office in New York 1887. No value found.

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Survey 445 OK

SURVEY No. 449

Mineral District. No. 7

PLAT

OF THE CLAIM OF

The San Juan & New York Mining & Smelting Co.

UPON THE

Mammoth Lode

ANIMAS MINING DISTRICT.

SAN JUAN COUNTY.

STATE OF COLORADO.

Containing an Area of 8,12 Acres.

Scale of 200 Feet to the inch.

Variation East.

SURVEYED BY

Wm Monroe

U.S. Deputy Mineral Surveyor.

November 11th 1882

The original Field Notes of the Survey of the Claim of The San Juan & New York Mining & Smelting Co. upon the Mammoth Lode. from which this plat has been made, have been examined and approved, and are on file in this office; and I hereby certify that they furnish such an accurate description of said Mining Claim as will, if incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects, and permanent monuments as will perpetuate and fix the locus thereof. I further certify that the value of the labor and improvements placed thereon by the applicant or its grantors, is not less than Five Hundred Dollars; and that said improvements consist of a Disc. Shaft, Tunnel, and Drift.

as appears by the affidavit of the deputy surveyor. And I further certify that this is a correct Plat of said Mining Claim made in conformity with said original field notes of the survey thereof.

U.S. Surveyor-Generals Office
Denver, Colorado
January 9th 1883.

Albert Johnson
U.S. Surveyor General for Colorado

GLO-00039
Page 1 of 1

Survey No. 445
Mineral District No. 7

PLAT

OF THE CLAIM OF

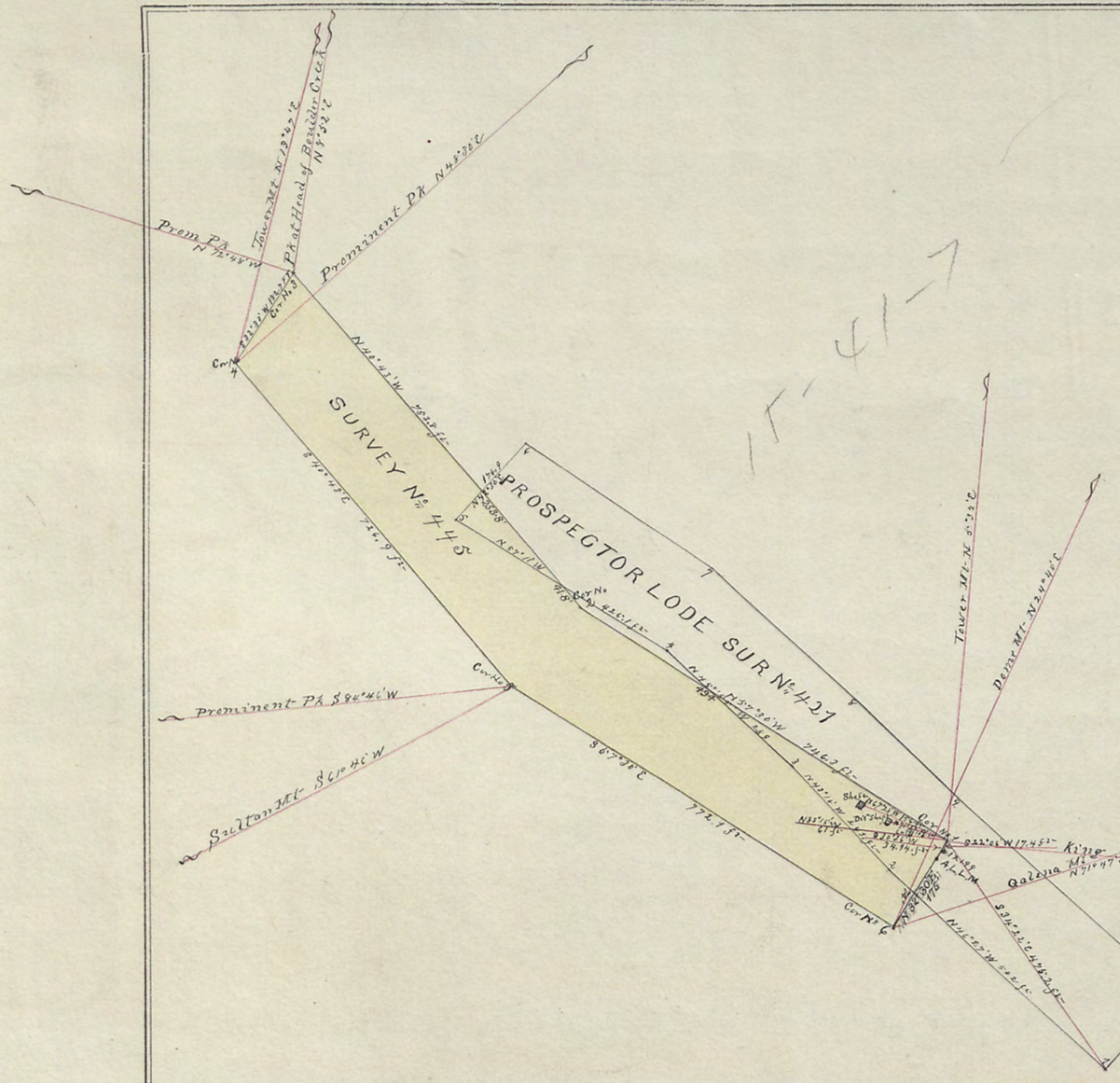
JOHN H. REED

UPON THE

PATHFINDER LODE

ANIMAS MINING DISTRICT SAN JUAN COUNTY, COLORADO.

Surveyed by WM MUNROE U. S. Deputy Surveyor.
Containing 6.02 Acres.
Scale 200 Feet to an Inch.
Var 15° 30' E.



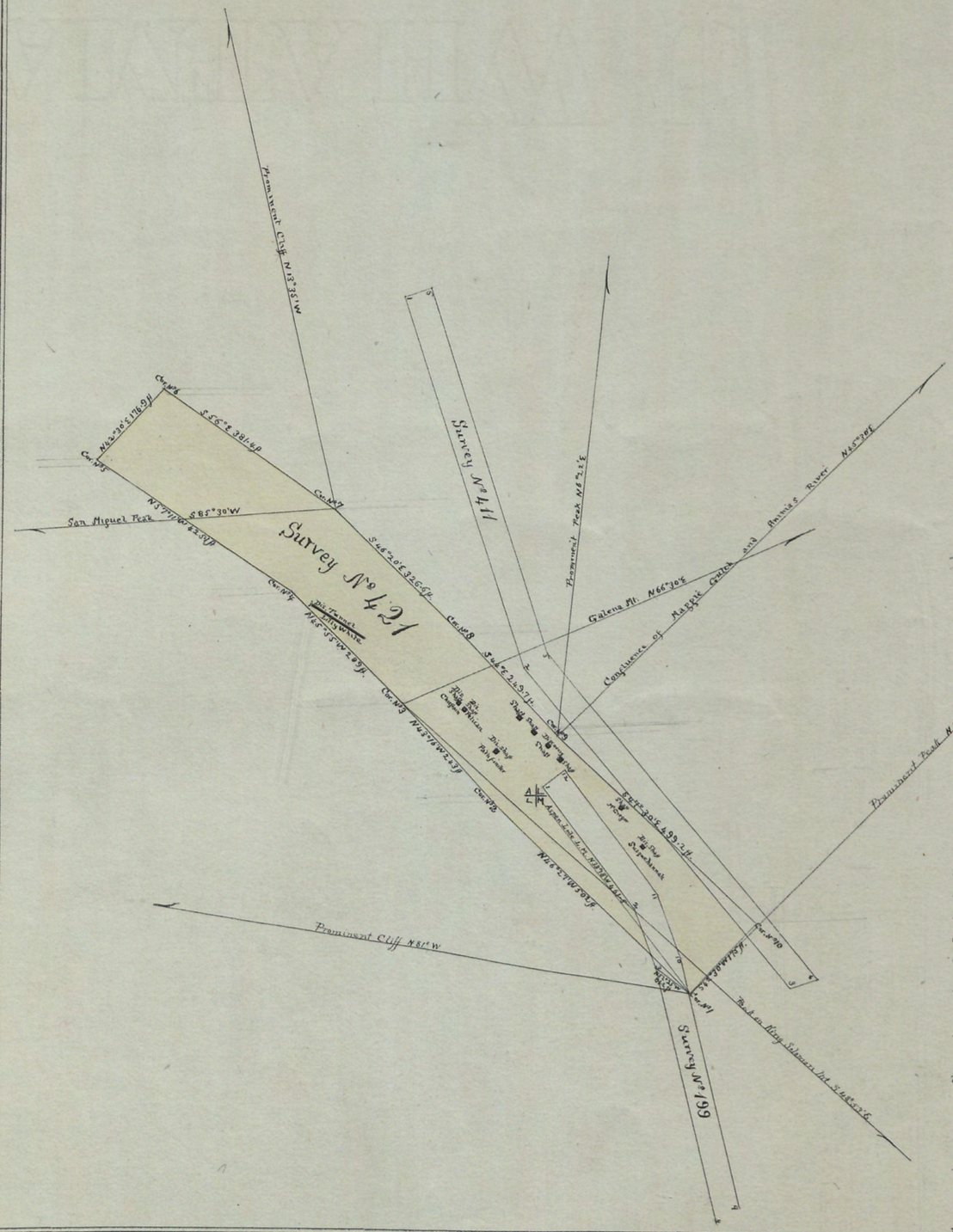
The original Field Notes of the claim of John H. Reed upon the Pathfinder Lode from which this Plat has been made, have been examined and approved, and are on file in this office. And I hereby certify that they furnish such an accurate description of said Mining Claim as will, if incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects and permanent monuments as will perpetuate and fix the locus thereof. I further certify that the value of the labor and improvements upon the said Mining Claim placed thereon by the applicant or his grantors, is not less than Five Hundred Dollars, as sworn to by the Deputy Surveyor, and that said improvements consist of Two Shafts and a Tunnel

And I further certify that this is a correct Plat of said Mining Claim or premises, made in conformity with said original Field Notes of survey thereof.

U. S. SURVEYOR-GENERAL'S OFFICE,
DENVER, COLORADO.
November 23rd 1881

Albert Johnson
U. S. Surveyor-General for Colorado.

TRIBUNE, DENVER, COLO.



SURVEY NO. 421

Mineral District No. 7

PLAT

OF THE CLAIM OF

Joel W. Shackelford et al.

UPON THE

Prospector Lode

LAS ANIMAS MINING DISTRICT SAN JUAN. COUNTY, COLORADO.

Surveyed by T. M. Trippe. U. S. Deputy Surveyor.

Containing 5.04 Acres.

Scale of 200 Feet to an Inch.

Variation 15° 30'. E.

Aug 19
Four Shafts & drifts.

110

The original Field Notes of the claim of Joel W. Shackelford et al. upon the Prospector Lode from which this Plat has been made, have been examined and approved, and are on file in this office. And I hereby certify that they furnish such an accurate description of said Mining Claim as will, if incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects and permanent monuments as will perpetuate and fix the locus thereof. I further certify that the value of the labor and improvements upon the said Mining Claim placed thereon by the applicant or his grantors, is no less than Five Hundred Dollars, as sworn to by the Deputy Surveyor, and that said improvements consist of Four shafts and drifts

And I further certify that this is a correct Plat of said Mining Claim or premises, made in conformity with said original Field Notes of survey thereof.

U. S. SURVEYOR-GENERAL'S OFFICE,
DENVER, COLORADO.
Aug. 19th 1880

Albert Johnson
U. S. Surveyor-General for Colorado.

TRIBUNE, DENVER, COLO.

Office of the Secretary of State Jesse White

CYBERDRIVEILLINOIS.COM

Corporation/LLC Search/Certificate of Good Standing

Corporation File Detail Report

File Number	65287358
Entity Name	LE PETOMANE XXV, INC.
Status	ACTIVE

Entity Information

Entity Type	CORPORATION
Type of Corp	DOMESTIC BCA
Incorporation Date (Domestic)	Friday, 15 December 2006
State	ILLINOIS
Duration Date	PERPETUAL

Agent Information

Name	ANDREW W STEINBERG
Address	

35 E WACKER DRIVE STE 690
CHICAGO , IL 60601

Change Date
Thursday, 2 January 2020

Annual Report

Filing Date
Friday, 29 November 2019

For Year
2019

Officers

President
Name & Address
JAY A. STEINBERG 35 E. WACKERDR. # 690, CHICAGO, IL 60601

Secretary
Name & Address
JAY A. STEINBERG 35 E. WACKERDR. #690, CHICAGO, IL 60601

Return to Search

File Annual Report

Adopting Assumed Name

Articles of Amendment Effecting A Name Change

Change of Registered Agent and/or Registered Office

(One Certificate per Transaction)

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NPS Form 10-900-b
(Revised March 1992)

OMB No.1024-0018

United States Department of the Interior
National Park Service

Historic Mining Resources of San Juan County, Colorado

National Register of Historic Places Multiple Property Documentation Form

This form is used for documenting multiple property groups relating to one or several historic contexts. See instructions in *How to Complete the Multiple Property Documentation Form* (National Register Bulletin 10-900-a). Use a typewriter, word processor, or computer to complete all items.

_X_ New Submission __ Amended Submission

I hereby certify that this multiple property documentation form has been approved as a basis for evaluating related properties for listing in the National Register.

_____

Signature of the Keeper date of action

Section E 1: History of Mining in San Juan County

INTRODUCTION

In terms of mining history, San Juan County is among the most important regions in the Rocky Mountain states. The county hosted a local mining industry that was significant for its longevity, productivity, role in key industry events, and association with important people. For example, in 1860, the Animas River drainage was the scene of the first popular gold rush in southwestern Colorado. This initial event led to the exploration and popularization of the San Juan Mountains. During the late 1870s, hardrock mining took hold and became important enough to convince the Denver & Rio Grande Railroad to grade a narrow-gauge line to the San Juans and then up to Silverton. The railroad is still in service today as one of Colorado's premiere tourist attractions, designated a National Historic Landmark in July 1961. Following the Silver Crash of 1893, the owners of the two largest mines in the county instituted the practice of producing and milling low-grade ore in unprecedented volumes to offset the meager returns per ton of material. When these two individuals demonstrated that the strategy was effective, the rest of Colorado's hardrock mining industry followed and pulled the state out of the mid-1890s depression.

An outstanding assemblage of historic resources represents the county's fascinating and important hardrock mining industry. Following abandonment, many of the prospects, mines, and mills succumbed to the pressures of mineral exploration, scavenging, recreational use, and especially natural decay, leaving a number of resources in various states of preservation. While some of the important mines and towns are well-known, forgotten resources are being rediscovered through historic preservation efforts, environmental cleanup, and greater attention to local and Federal public lands.

To foster the understanding and preservation of important sites, the Bureau of Land Management (BLM) commissioned a Multiple Property Documentation Form focused on the county's rich mining heritage. Little other context work has been completed as of 2009 regarding the county's mining history. Several popular publications and a series of resource inventory reports constitute the only broad-scale body of historical analysis. Between the late 1990s and early 2000s, the BLM funded a sweeping inventory of the county's principal mine and settlement sites. The BLM divided the county into study units, identified the principal sites within each unit, and contracted with archaeological consultants to inventory the selected resources. The consultants then produced reports of findings.[1]

While these projects established an important baseline, they were not designed to provide specific guidance regarding the identification, interpretation, and evaluation of the county's

[1] Steve Baker, *Cement Creek West Study Unit-AML Historic Site Survey* (Montrose, CO: Centuries Research, 1998); Ross S. Curtis, *Recording of Historic Mining Properties in the Galena Mountain Study Unit, San Juan County, Colorado* (Durango, CO: Durango Archaeological Consultants, 2001); Eric Twitty, *Mining Cement Creek: A Selective Inventory of Historic Mine Sites on the East Side of the Cement Creek Drainage, San Juan County, Colorado* (Boulder: Mountain States Historical, 2000); Eric Twitty, *The Silverton Mining District k: A Selective Inventory of Principal Historic Sites, San Juan County, Colorado* (Boulder: Mountain States Historical, 2002).

mining resources. The 2010 *Historic Mining Resources of San Juan County, Colorado Multiple Property Documentation Form* commissioned by the BLM attempts to fill this need. The document contains an abundance of information that has been formatted for an understanding of the common types of mining-related resources that may be encountered today.

The *Historic Mining Resources of San Juan County, Colorado* is a subcontext of the larger statewide Multiple Property Documentation Form *The Mining Industry in Colorado*.[2] Jay Fell and Eric Twitty wrote the document in 2005, and the Colorado Historical Society published a revision in 2008. *The Mining Industry in Colorado* provides a broad overview of mining throughout Colorado between 1858 and 2001, general descriptions of its common resource types, and their general registration requirements. A subcontext with greater detail and specificity to San Juan County is necessary to better support regional nominations. The county's history is complex, and the resources varied in type specialized to the region's environment.

Section E.1 of the subcontext describes San Juan County's geography, mining districts, and history in greater detail than the statewide context, and in chronological order. The statewide context, in contrast, follows a geographic approach. The subsection on history is new material and covers the events, trends, people, organizations, and Periods of Significance specific to the county. The subsection is crucial for placing present historic resources in time and place, and identifying relevant Areas of Significance for nomination. Section E.2 reviews the technology, methods, and equipment commonly employed for prospecting, mining, and milling in the county. This information is important to promote a better understanding of the county's mining history and to help interpret mining resources in the field. Section E.2 directly reproduces a parallel section in the statewide context, with author permission, and adapted to the county-specific industry. Material not directly relevant to San Juan County, such as coal mining, has been omitted.

Section F of the subcontext describes the property types common to the mining industry in San Juan County as well as their registration requirements. The section was also directly repeated from the statewide context for consistency, and because terminology and many resource types are universal throughout the greater Rocky Mountains. Section F was, however, adapted to San Juan County where needed. Some resource types are described in more detail while those not found in the county, such as dredge placers, were omitted. Editorial improvements were made as well, and embedded illustrations removed to comply with revision to National Park Service policy.

THE PHYSICAL ENVIRONMENT OF SAN JUAN COUNTY

San Juan County lies in southwestern Colorado, and it encompasses approximately 753 square miles within the central San Juan Mountains. Cycles of geological uplift, subsidence, and glaciation contributed to particularly difficult terrain dominated by high alpine peaks and deep

[2]Jay Fell and Eric Twitty, *The Mining Industry in Colorado Multiple Property Documentation Form* (Denver: On file with the Colorado State Historic Preservation Office, Colorado Historical Society, 2008).

valleys. The peaks range in elevation from around 11,000 to 14,000 feet, and separate several distinct drainages.

The Animas River carved the county's principal valley from between towering landforms. Following a cultural geographic pattern common to the greater Rocky Mountains, nearly all the county's principal towns grew in the valley. The river begins at the confluence of three alpine creeks in the county's northern extent. The appropriately named town of Animas Forks lay at the confluence, and from here, the river trends southerly for around three miles to the townsite of Eureka. The valley widens, curves southwest around two miles to Howardsville, and continues three more miles to the town of Silverton, the county seat. From there, the valley constricts again and resumes a southward course out of the mountains toward Durango.

Numerous streams descend into the Animas River valley from both sides, draining basins between the principal peaks. On the north side, the principal streams are, west to east, Mineral Creek, Cement Creek, Eureka Gulch, California Gulch, and the North Fork of the Animas.

Mineral Creek ascends northwest from Silverton for several miles and then branches at a point historically known as Burro Bridge. The South Fork continues west into a cluster of peaks and basins forming a divide with the Telluride area in the western San Juans. Ice Lake Basin, near the headwaters, was noteworthy because it was center to the Ice Lake Mining District and a cluster of mines developed during the 1880s. The basin is above treeline, features an alpine environment, and, historically, was remote and difficult to access, which confounded mining.

The main fork of Mineral Creek ascends due north from Burro Bridge for around four miles and ends at Red Mountain Pass. Here, the tributary Mill Creek extends west into a group of peaks. The historic settlement of Chattanooga grew at the confluence, and it was center to a small collection of mines. When the Red Mountain Mining District boomed on the north side of the pass (Ouray County) during the mid-1880s, Mineral Creek became a principal route and Chattanooga served as a gateway.

Cement Creek, another principal drainage, ascends north from Silverton and is flanked on both sides by high peaks. The valley trends north for around six miles, curves northeast, and ends at the townsite of Gladstone, which was established at a confluence. Near Gladstone, Prospect Gulch ascends steeply northwest into the Red Mountain peaks, which rise to elevations of more than 12,000 feet. At Gladstone, the South Fork of Cement Creek branches south, the main fork ascends north, and both end in alpine basins. While Cement Creek was heavily prospected during the late 1870s, twenty years passed before the drainage saw mining of significance. Most of the substantial operations were relatively close to Gladstone, and a few were in Prospect Gulch. The Gold King, one of the county's most productive mines, was on the east edge of Gladstone.

Eureka Gulch enters the Animas valley at the townsite of Eureka, and it passes northwest between peaks to Lake Emma and Sunnyside Basin. The gulch saw some of the county's earliest activity, and Sunnyside Basin hosted the Sunnyside Mine, which was one of the most important mines both in the county and state.

California Gulch and the North Fork of the Animas are the last two principal drainages on the north side of the Animas River. They and Cinnamon Creek join at the townsite of Animas Forks, and this confluence serves as the Animas River's headwaters. California Gulch ascends gently west, the North Fork ascends north, and Cinnamon Creek extends east. High peaks rising

to elevations of 12,500 to 13,200 feet surround the confluence, and the confluence itself is a lofty 11,000 feet.

The south side of the Animas River valley features almost as many tributary drainages as the north side. From west to east, the tributaries include Arrastra Gulch, Cunningham Gulch, Maggie Gulch, Minnie Gulch, and Burns Gulch. Arrastra Gulch, scene of the first hardrock mine in the San Juans, is relatively short and ascends steeply south to an abrupt headwall bracketed by high peaks. Beyond lies Silver Lake Basin, which hosted several of the county's most advanced mines.

Cunningham Gulch is one of the deepest of the tributaries and featured several of the earliest and longest-lived mines. The drainage extends southeast from Howardsville for one mile and curves southwest. At the curve, Stony Gulch veers southeast, and while it is a minor tributary to Cunningham, the gulch is noteworthy because it was historically one of the main entry points into the region. Cunningham Gulch continues south for around two miles and branches into several alpine creeks. King Solomon Mountain and North Star Peak form the gulch's west side, and Green Mountain serves as the east side.

Maggie and Minnie gulches open into the Animas valley relatively close together. Over the course of two miles, Maggie Gulch curves from southeast to south and ends in a glaciated basin. Minnie Gulch is almost as long and follows a similar course. Burns Gulch, which featured several productive mines, lies between Eureka and Animas Forks and follows a short and southeastern ascent into numerous peaks.

The far northern reach of the county, mostly above treeline, is the only portion that drains northwest away from the Animas River. Mineral Creek carries snowmelt from the area north of Animas Forks westerly into Ouray County and the Uncompahgre River. Poughkeepsie Gulch, north of Cement Creek, flows from alpine basins into Mineral Creek. Both drainages were, for a brief time early in the county's history, important centers of prospecting.

The climate in the San Juan Mountains presented the mining industry with conditions that some observed were second in difficulty only to Alaska. The editors of the *Silverton Standard* summed the general weather pattern in a simple sentence: "Snow-banks whiten these upper elevations from January to August, and from August to January. The clouds weep about all the year round."[3] What the editors forgot to mention were the high winds.

The summers were the most important season for activity, and while they tended to be hospitable, they were remarkably short and cool. Summer begins in June when temperatures in the 60s and 70s, Fahrenheit, melt the thick snowpack from lower elevations and improve transportation. June is usually clear and bright, but by July, a regional phenomenon known as the monsoon shrouds the mountains in clammy and rainy weather until September, when reliable warmth and sun return. With occasional snows, the middle of summer in the San Juans could be mistaken for mild winter in more temperate climates. The fall begins in October, and while it tends to be dry, the weather has an element of unpredictability. At the least, the temperatures during both day and night are cooler, and cold snaps, snow, and prolonged warm weather are all possible through November. Winter sets in during November and lasts through April. Powerful

[3] *Silverton Standard* (7/27/95): 1.

Pacific storms blowing in from the west deposit up to several feet of snow at a time and send temperatures plummeting well below zero degrees. Cold air masses that follow the storms force the temperatures down as low as -40 degrees, although readings in the 30s and 40s are more typical. Because the cold air tends to sink, the mountain canyons, where most of the settlements were located, channeled streams of frigid air, while the areas on the slopes where the mines lay tended to be much warmer. Despite such conditions, mining thrived in the San Juans by the 1880s and all-year residence became common. Nevertheless, both the geographic and climatic factors contribute to a distinct sense of physical isolation.

SAN JUAN COUNTY'S MINING DISTRICTS

In general, prospectors across the West organized mining districts as a primitive form of frontier government to regulate claim activity and some behaviors of miners. The boundaries of a mining district were usually drawn around concentrations of mineral claims. When prospecting and mining spilled outside of an established district, the boundaries were usually amended to incorporate the additional activity. An elected board set regulations that defined the types of claims, claim sizes, requirements to maintain title, rights for infrastructure and engineering projects, and discovery rights for placer and hardrock deposits. The board also kept records, defined laws that governed behavior and enforced law and order. With the rise of effective county governments throughout Colorado, the majority of these responsibilities fell to a clerk and recorder, while the sheriff administered law enforcement. Mining districts, however, continued to be recognized.

Roughly between 1870 and 1880, prospectors in San Juan County established seven formal mining districts: Animas, Bear Creek, Eureka, Ice Lake, Mineral Creek, Mineral Point, and Poughkeepsie. The press, industry experts, and local interests often attributed new centers of activity to the nearest district and substituted popular names for original designations. As a result, some of the county's districts are known by several names, and their exact boundaries remain nebulous.

Las Animas Mining District

The Las Animas Mining District enjoys the status of first district in the county and probably the greater San Juan Mountains. Prospectors organized the entity, often known simply as the Animas district, on June 15, 1871, to govern claim activity throughout the Animas River drainage.[4] The original district proved unwieldy in size, and when prospectors arrived in significant numbers in 1873, they began carving other districts out of the Las Animas. The Eureka district was the first and took in the territory north of the Animas River and east of Cunningham Gulch. Mineral Creek was the second and assumed the Mineral Creek drainage and mountains west of the Animas River. This left the large cluster of towering peaks southwest of Silverton as the Las Animas district, and they included Kendall Mountain, Kendall Peak,

[4] Allen Nossaman, *Many More Mountains: Volume 1: Silverton's Routes* (Denver: Sundance Publications, 1989) 103.

Hazelton Mountain, Round Mountain, King Solomon Mountain, and North Star Peak. Silver Lake Basin lay near the center. In terms of final boundaries, the Animas River defined the district's west and north edges, Cunningham Gulch was the east side, and Whitehead Peak marked the south line. Silverton anchored the district's northwest corner and Howardsville the northeast corner.

Eureka Mining District

Ruben J. McNutt and George W. Howard, two of the county's pioneers, were the driving force behind the Eureka Mining District. They formalized the district in 1873 and, while the original boundaries are unclear, they designated the region north of the Animas River, east of Cunningham Gulch, and west of the Continental Divide. The boundaries became defined in 1874 or 1875 when prospectors created the Mineral Creek district to the west, and the Mineral Point district to the north. Ultimately, the Eureka district assumed a complex shape. Silverton lay at the southwest corner, and from here, the west boundary passed northwest through the series of peaks that culminated as the Red Mountains. In particular, the west boundary passed through, south to north, Anvil Mountain, Ohio Peak, McMillan Peak, and Red Mountain No.3.

The district's north boundary was inconsistent. It started at Red Mountain No.3, followed the ridge east to Red Mountain No.1, and wrapped around the head of Cement Creek to Hurricane Peak. The north boundary then followed the ridge northeast to Tuttle Mountain, east to Houghton Mountain, and crossed over the North Fork of the Animas to Cinnamon Pass. In essence, the entire north boundary followed the separation between south-flowing and north-flowing drainages.

The east boundary followed a similar principal. That boundary was drawn along the Continental Divide from Cinnamon Pass south to Stony Pass. The Divide also served as the separation between San Juan and Hinsdale counties.

The south boundary was almost as complex as the north. Specifically, the boundary extended from Stony Pass west to Cunningham Gulch and then followed the gulch northward to Howardsville. Thus, the mountains on the west side of the gulch remained within the Animas district while those on the east side belonged to the Eureka district. The south boundary then followed the Animas River west to Silverton.

Cement Creek Subdistrict

It remains uncertain whether the Cement Creek Mining District was formally organized, but archival sources, including mining journals and mine inspectors', reports allude to the existence of a district by that name. The Cement Creek district was limited to the Cement Creek drainage and can be considered a subdistrict within the Eureka.

Mineral Creek Mining District

When prospectors fanned out into the western portion of the county in 1874 and 1875, they found enough mineral deposits to justify a mining district. The prospectors organized the Mineral Creek Mining District, and because the discoveries were widely scattered among the peaks and drainages, the district boundaries remained poorly defined. In general, we can assume that the district included the Mineral Creek drainage west of the Animas and Eureka districts. Most of the activity in the district occurred along the forks of Mineral Creek.

Ice Lake Mining District

During the late 1870s, prospectors found a concentration of mineralized veins in Ice Lake Basin, near the head of the South Fork of Mineral Creek, at the county's west edge. Because the collection was a distinct entity, they organized the Ice Lake Mining District, which was limited to the basin and head of the creek. Ground largely devoid of mineralization between Ice Lake Basin and the mines on Mineral Creek helped the district maintain recognition as distinct.

Mineral Point Mining District

The county's northern extent featured a second Mineral Creek, and it was center to another early district. When Albert W. Burrows and Charles H. McIntyre prospected the area and staked a number of claims in 1873, they almost certainly organized a district at the same time. The original name probably contained the term Mineral but excluded Point because the name Mineral Point did not come into being until 1875 when the Postal Service recognized the settlement of Mineral City as Mineral Point. Afterward, the mining industry adopted the name Mineral Point, and the district was one of the most remote, highest, and difficult to work in.

The district straddled southeast Ouray and northeast San Juan County and encompassed the Mineral Creek drainage. The northeast edge followed the Continental Divide between Wood and Engineer mountains, and extended west from Engineer Mountain across several unnamed peaks. The west edge went almost due south to Tuttle Mountain and respected the divide between the Mineral Creek and Poughkeepsie drainages. The district's south boundary was the same as the Eureka district's north boundary. In particular, the south edge connected the crests of Tuttle and Houghton mountains, and leapt over the North Fork of the Animas River to Cinnamon Pass. The east edge then followed the Continental Divide from the pass north to Wood Mountain, closing the loop.

Poughkeepsie Mining District

The Poughkeepsie Mining District encompassed the Poughkeepsie Gulch area, which was also the headwaters of the Uncompahgre River, in the county's northern portion. From another perspective, the district occupied a pocket of territory west of the Mineral Point and north of the Eureka districts. McNutt and Howard may have formulated a version of the district as early as 1873, when they staked the Poughkeepsie and other claims. The original boundaries are uncertain, but the district became well-defined by 1875. The Poughkeepsie district's east

boundary was the same as the Mineral Point district's west edge. In particular, the boundary formed a line from Tuttle Mountain north over Mineral Creek to the crest of an unnamed peak. Originally, the west boundary may have extended as far as Ironton Park and Red Mountain Creek, but this was pushed eastward with the creation of the Red Mountain Mining District in the early 1880s. As a result, the Poughkeepsie district's western edge followed the crest of Brown Mountain, which was also the boundary between San Juan and Ouray counties. The district's southern edge respected the divide between the Cement Creek and Poughkeepsie drainages and extended from the south end of Brown Mountain through Poughkeepsie Pass to Hurricane Peak.

Bear Creek Mining District

The Bear Creek Mining District was one of the last designated in San Juan County. Prospectors discovered gold on Bear Creek in 1893, prompting a small rush the following year. The district centered on Bear Creek, which flows northeast into the headwaters of the Rio Grande River. Deep in the mountains southeast of Cunningham Gulch, the district was so remote that mining companies found Creede in Mineral County to be easier to reach and relied on it as the nearest point of commerce instead of Silverton. The district extended west over the Continental Divide and included the headwaters of Elk Creek.

THE HISTORY OF MINING IN SAN JUAN COUNTY

Each subheading in Section E itemized below refers to a discrete Period of Significance in San Juan County mining history as defined by historical events, trends, and patterns:

The Gold Rush, 1860-1861
Return to the San Juans, 1870-1874
Settlement and Establishment of Industry, 1875-1881
The Early 1880s Boom, 1882-1885
The Value of Silver is Restored, 1890-1893
The Silver Crash, 1894-1897
The Great Mining Revival, 1898-1910
World War I Revival, 1915-1921
Great Depression Era Revival, 1933-1939
Post World War II Recovery, 1946-1954

The Gold Rush, 1860 – 1861

Mining in San Juan County began not in the San Juan Mountains, but far to the northeast in California Gulch near present-day Leadville. A prospector named Charles Baker postulated that the gulch lay within a huge mineral belt extending from Boulder County southwest to points deep in the mountains. Baker came to Colorado with the Pikes Peak Gold Rush in 1859 or 1860,

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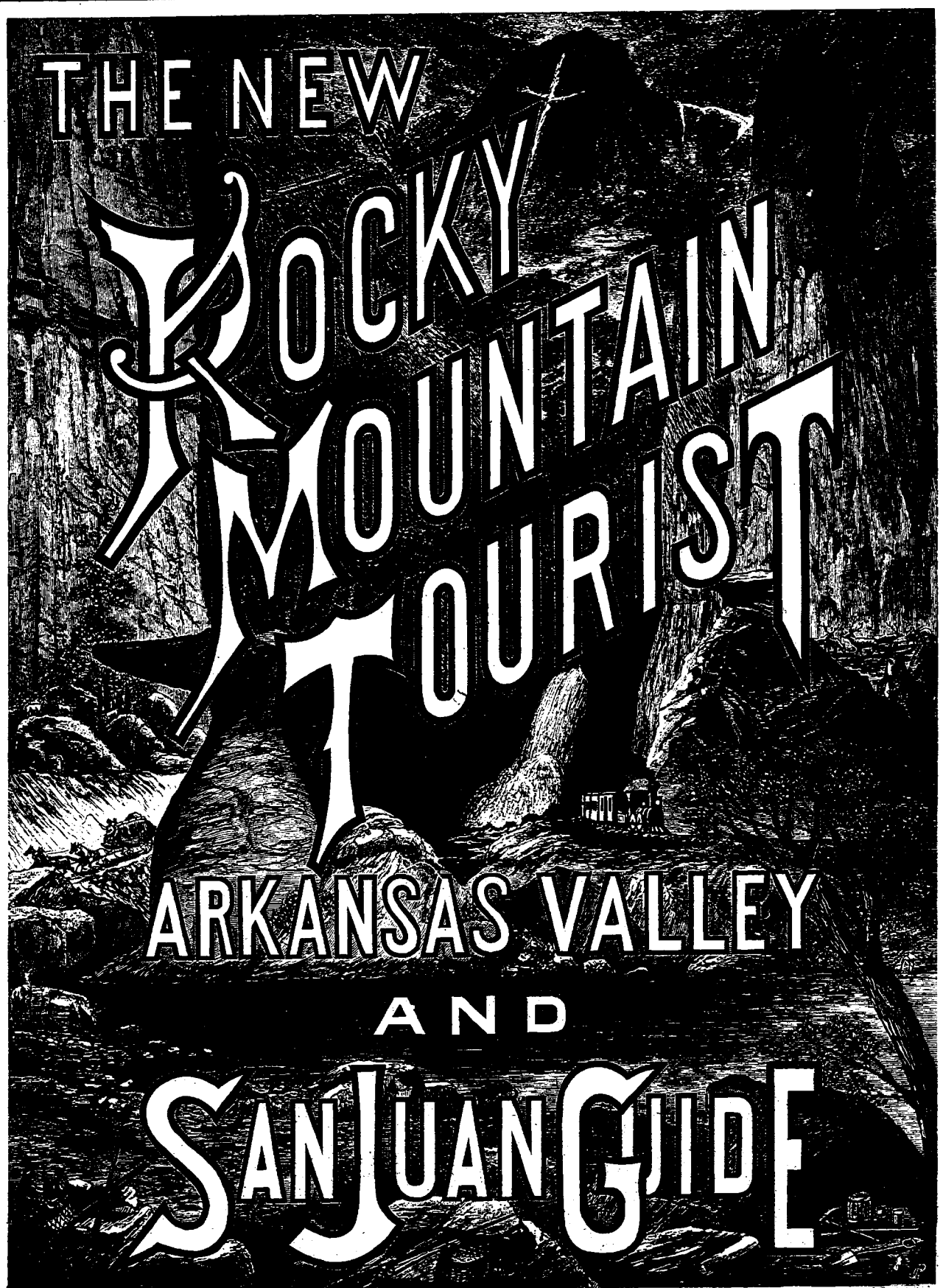
THE NEW
ROCKY MOUNTAIN TOURIST
ARKANSAS VALLEY
AND
SAN JUAN GUIDE

THE NEW

ROCKY MOUNTAIN TOURIST

ARKANSAS VALLEY

AND

SAN JUAN GUIDE.

THE TOUR

THROUGH THE GRAIN DISTRICTS OF THE ARKANSAS VALLEY, THE SHEEP AND CATTLE RANGES AND HUNTING GROUNDS OF SOUTHWESTERN KANSAS, TO THE PLEASURE RESORTS OF THE ROCKY MOUNTAINS, THE SANITARIUMS, SPRINGS, THE SAN JUAN MINES AND THE HUNTING AND FISHING GROUNDS OF COLORADO.

BY J. G. PANGBORN.

THIRD EDITION.

CHICAGO:
KNIGHT & LEONARD.

1878.

PREFATORY.

THE ROCKY MOUNTAIN TOURIST requires no formal or extended introductory, the edition of 1877 having won lasting admirers throughout the United States, the Canadas and Europe. The original object of the TOURIST, that of a publication devoted to the wonderfully attractive country beyond the Missouri, has been rigidly adhered to in the present edition, but in scope of information, in practical detail, in official data and in lavish illustration, the new TOURIST far surpasses the old, while in elegance of design, in artistic beauty of engravings and in high standard of typographical excellence, it is worthy of closest comparison with that grandest illustrated work ever issued in the United States — Appleton's Picturesque America.

For the convenience of all interested, intently or casually, in the glorious expanse of country between the Missouri and the great Continental Divide, the new TOURIST has been arranged into chapters, to which reference can readily be made for such particular information as is desired. For instance: the agriculturist and the economist, interested in the development of the greatest grain section on the continent, find in the chapter devoted to Kansas such official figures from national and state authorities as cannot but occasion profound surprise. The capitalist looking for investment will learn much of great value in the chapter on wheat raising, while the chapters assigned to the wool growing and cattle raising interests must impress all with their point and force. To the tourist, seeking only the pleasures of a jaunt in the Rocky Mountains, the series of chapters devoted to the resorts, the sublime scenes and exhilarating surroundings, will prove of unending attraction. The invalid seeking new life for the lungs, by careful perusal of the chapter on climate will learn of the ailments most benefited by sojourn in mountains, and also discover much of interest and importance in the chapter giving location, character and extent of the leading mineral springs of Colorado. With the return of silver to its original standard of value, and the constantly decreasing supply of gold in the former great gold regions of the world, the facts of the development of the as yet barely opened districts of the San Juan country, as set forth in the chapters devoted to the gold and silver mining interests, must impress capitalist and miner alike with the unparalleled richness of all that vast section of mineral wealth in southern Colorado. To the devotee to gun and rod, as well as to the amateur, the chapters on hunting in Kansas, and hunting and fishing in Colorado, will be almost an actual realization of the glorious sport pictured, and cannot but tempt many to brief or extended rambles in fields where game is so abundant and variety so exciting.

The aim throughout has been to combine the practical with the descriptive, and the artistic with the illustrative; hence distances, time and expense are among the most careful of notations, and may be depended upon as wholly reliable in every instance.

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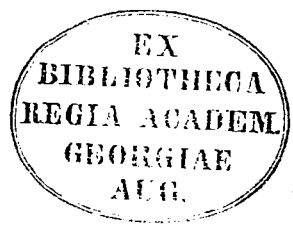

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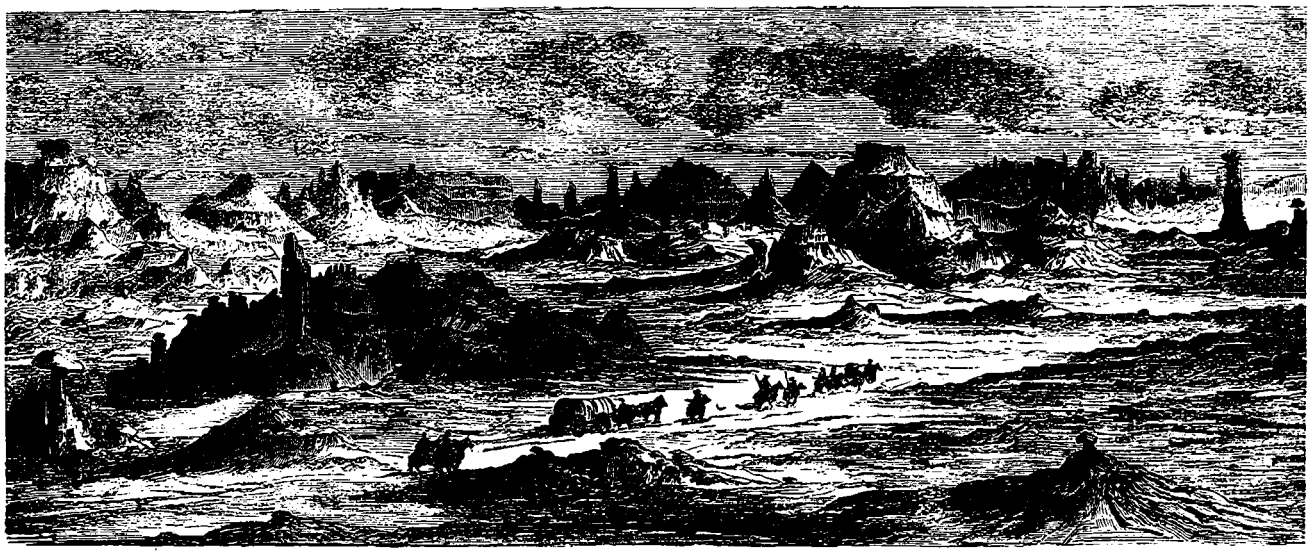


ROCK SCULPTURE ON WHITE RIVER.

PREPARATORY.

"MAPS are so unexpectedly made over nowadays that even we young people who are rather proud of not yet having forgotten our multiplication table and syntax are not a little put to it to bound American America or United Germany or dismembered France. There was a happy time when a 'pent-up Utica' judiciously contracted our powers, and when we were limited toward the pole by undiscovered countries which we were taught to call respectively Russian Possessions and Upper and Lower Canada—which was which of the twins last mentioned the infant mind never clearly apprehending. In those days our national Northwestern estate was represented on the Atlas by a green and a brown patch of uncertain outlines severally labeled 'Indian Territory' and 'Oregon.' In the common mind they stood only as irregular polygons on the map, and not as so many acres of soil, stones, forests, lakes, rivers, habitable places over which familiar heavens arched, and where rains fell on the just and unjust, the former class being represented by wild animals and the latter by wild men. Even the wise geographers skated nimbly over the thin ice of their ignorance, lingering only long enough for a single observation to the effect that this vast, unexplored country was chiefly trackless desert and unexplored forest and mountain fastness. Alas for the infant schools! Out of that dull, green patch has broken a wealth of offshoots, as out of the scrimp and ugly cactus bursts its superb blossoms. A list of States and Territories that dizzies the arithmetic of memory insists on place and nomenclature, and blessed be Providence which ordained that we should not be our own grandchildren to encounter a tale of three hundred and sixty-five political divisions by them doubtless to be comprehended in the description of their dear native land."

The mania prevailing to so widespread an extent among book writers—good, bad and indifferent—of launching their literary barks upon the high seas of public favor under the pilotage of poetic quotations, a verse or couplet being as familiar a preliminary as the inevitable preface, the writer in the present instance, having no desire to appear presumptuous, has followed in the wake of others, taking the liberty merely of substituting prose for poetry.

The quotation just made is from one of the brightest chapters by that most charming of writers in Appleton's Picturesque America, Mr. L. J. G. Runkle, and if illustrative of the march of progress when it was written, six years or more ago, how much more vividly is it suggestive of the present?

Maps have again and again been "unexpectedly made over," and in the completion of the Atchison, Topeka & Santa Fe Railroad to the base of the mountain ranges of southern Colorado, the "trackless desert" has been spanned as by a mighty bridge, and an ocean of wilderness thus transformed into so glorious a region of thrift and plenty that already it is most aptly termed "the future granary of the world."

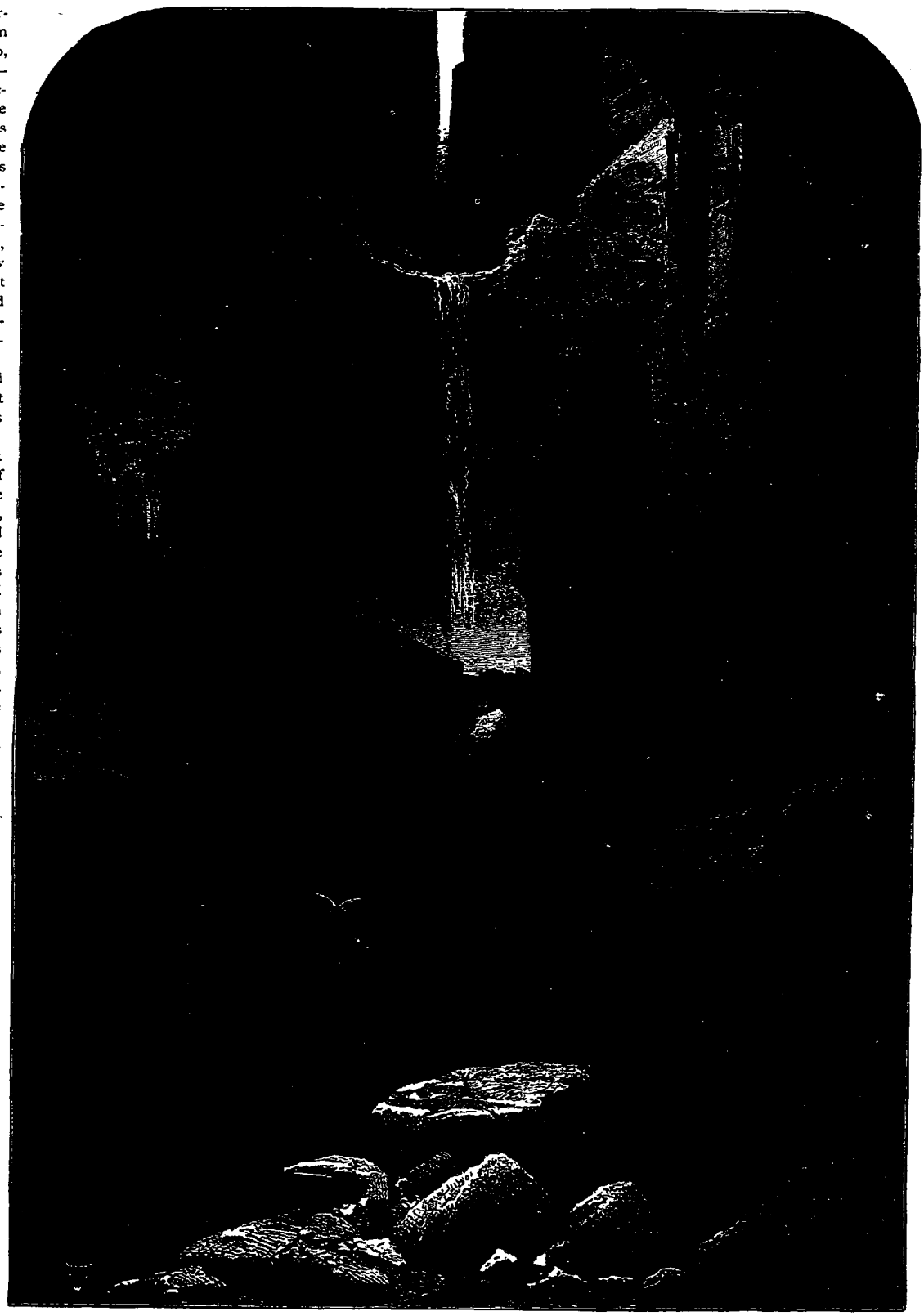
Beyond, the "unexplored forest and mountain fastness" no longer afford barest shadow of thinnest ice of ignorance for the nimble skating of wise geographers, and the "pent-up Utica" once "judiciously contracting our powers" has given way to an expansion knowing no limit.

"Our national Northwestern estate," once represented by "a green and a brown patch of uncertain outlines," lies now before us as distinctly as New England, and in everything that tends to patriotic ambition, "to bound American America," far more attractive. How an American, with that love of native land inspired by memories of the cost to attain and perpetuate its independence, can crave personal knowledge of United Germany, dismembered France or distracted England before learning even the rudiments of the wonders of his own country passeth all understanding.

The time was when the journey to the Rocky Mountains was the question of months of time, of fair weather or foul, of life or death, but with the old Santa Fe trail hidden beneath the ties and track of the Atchison, Topeka & Santa Fe Railroad, time is the rest of a day, the weather, to one comfortably ensconced in the most luxurious and elegantly appointed Palace cars on the continent, immaterial, and the perfect system extending to the most minute details in the management of the road, renders the matter of the hereafter one of no more than ordinary concern.

From New York to Kansas City the distance is less than fourteen hundred miles, and the time required in the journey by rail is two days and two nights, with but one change of Pullman cars. With New York as a center or basis, the time required from almost any point in the country may readily be determined, the perfection of the system of railroad connection east and west rendering all important trains on intervening roads merely links in one grand chain of locomotion from the Atlantic to the Pacific. During the tourist season, extending in railroad calendars from May 1 to October 1, round trip, or, as is possibly better known, tourist tickets are sold from all the principal cities of the Union to the Rocky Mountains and return, at rates greatly reduced from those in vogue at other seasons of the year. These tickets cover a period of ninety days, and are good over all

the principal lines of railway making connections with roads leading to Kansas City or Atchison, where from either point they become as passports to the mountains direct by the Atchison, Topeka & Santa Fe Railroad, which has termini at both Kansas City and Atchison. Passengers arriving at Kansas City from St. Louis, via either the Missouri Pacific or the St. Louis, Kansas City & Northern; from Chicago via the Chicago, Burlington & Quincy or the Chicago & Alton, or from Hannibal and Quincy via the Hannibal & St. Jo, or arriving in Atchison from Chicago by the Chicago, Rock Island & Pacific, or via the Burlington route, or from Toledo via the Toledo, Wabash & Western,—all make direct connection with the Santa Fe route for the mountains without further change of cars. All the roads named run the finest of Pullman Palace cars, from the different points enumerated, through to Kansas City or Atchison without change, making grand highways in direct conjunction with the Santa Fe from St. Louis Mo., Chicago, Ill., and Toledo, Ohio, with but a single change of cars to the Rocky Mountains. From New York and the great cities of the East generally there are but two changes, while from principal points of the South the continuity of travel has few, if any, additional breaks. The time from Atchison or Kansas City to the mountains is twenty-eight hours, thus making the period from New York a trifle over three days. Comparatively but few years ago the same journey could not have been accomplished in three months. Then a tenth of the distance was a task of the severest character, now it is a pleasure so keen that few make it without determining to repeat it at the first opportunity. Many of the Eastern lines and several of those forming direct connection with the Santa Fe run cars rivaling the most noted hotels in the land in sumptuous entertainment for the inner man; and these hotel cars, in conjunction with drawing-room and sleeping cars, enable one so choosing to remain upon the train day as well as night. No trouble is experienced with baggage, as it is checked from end to end of the journey.



WALLS OF THE GRAND CANON.

LARNED FROM THE EAST.

SOUTHWEST KANSAS AND THE ARKANSAS VALLEY.

AT Atchison we stand upon, and at Kansas City we have merely to put foot over, the threshold of Kansas, whose early history is as memorable in the blood-stained annals of the nation as is her development of late years in the record of the nation's progress.

Of Kansas, wrote Horace Greeley, in the early summer of 1857, "I believe I have now descended the ladder of artificial life nearly to its lowest round, and the progress I have made during the last fortnight toward the primitive simplicity of human existence may be roughly noted thus:

"May 12.— Chicago; chocolate and morning newspapers last seen on the breakfast-table.

"May 23.— Leavenworth; room-bells and baths make their last appearance.

"May 24.— Topeka; beefsteak and washbowls, other than tin, last visible. Barber ditto.

"May 26.— Manhattan; potatoes and eggs last recognized among the blessings that 'brighten as they take their flight.'

"May 27.— Junction City; last visitation of a bootblack, with dissolving view of a broad bedroom. Chairs bid us good-bye.

"May 28.— Pipe Creek; benches for seats at meals have disappeared, giving place to bags and boxes. We write our letter in the express wagon that has borne us by day and must supply us lodgings at night."

"Pipe Creek" is now less than a half day's journey from Kansas City.

In 1870 Mr. Greeley made another trip to Kansas, and in October of that year wrote to the New York *Tribune:* "Settlers are pouring into eastern Kansas by car-loads, wagon-loads, horse-loads, daily, because of the fertility of her soil, the geniality of her climate, her admirable diversity of prairie and timber, the abundance of her living streams, and the marvelous facility wherewith homesteads may here be created. I predict that the child is born who will see her fifth, if not fourth, in population and production among the states of our Union." Mr. Greeley might have gone farther in his prediction than the birth of the child — might well have declared that the man had reached his maturity who would see Kansas the fourth or fifth state in the Union in production, if not indeed in population. The prediction was made in 1870, and the official report of the United States Department of Agriculture in 1871, placed Kansas the seventeenth state in the Union in the production of wheat, ninth in corn, fifteenth in rye, fourteenth in oats and nineteenth in barley, the five grains enumerated being the principal marketable crops of the country. The child born that year would hardly have been in his ABCs ere he would have seen Kansas spring from the seventeenth to the eighth state in the Union in the production of wheat, from the ninth to the fifth in corn, from the fifteenth to the first in rye, from the fourteenth to the ninth in oats, and from the nineteenth to the fifth in barley, such being the status of the state just five years later as shown by the report of the Department of Agriculture for 1876, issued in December, 1877.

While whirling along the banks of the Kansas river, between Kansas City and Topeka, over the steel rails of the Santa Fe, or perchance leaving the banks of the Missouri at Atchison and gliding through the beautiful valley of the Grasshopper to the common central point, the two eastern arms of the Santa Fe joining the body as it were at Topeka, a comparative study of the reports of the Department of Agriculture for the years 1871 and 1876 cannot but prove of very decided interest. Placing the two reports side by side, we find that Kansas had 13,816,000 bushels more wheat in 1876 than 1871. Following out this same line of comparison between the wheat product in the states of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Delaware, Maryland, Virginia, Arkansas, Texas, Kentucky, Ohio, Michigan, Indiana, Illinois, Wisconsin, Minnesota, Iowa, Missouri and Nebraska in 1871 and in 1876, we find that the increase of the wheat product of the single state of Kansas was 257,000 bushels in excess of that of the twenty-four states enumerated combined. This is an astounding result to reach, but nevertheless is the fact, as the official figures substantiate. The two years were upon almost exactly equal footing so far as general average of crop, while the total product of the United States in 1876 was 56,634,100 bushels in excess of the total product of 1871. The increase of wheat in the one state of Kansas, 1876 over 1871, was upward of double the increase in all the other Western States combined, and was greater than that of any state in the Union. Neither Illinois, Michigan or Wisconsin had as much wheat in 1876 as in 1871, while Iowa, with 1,181,542 more acres of wheat in 1876 than in 1871, had 800,000 less bushels. Continuing the comparison we find that the increase of corn product of Kansas in 1876 over 1871, as was her wheat product, was greater than that of any state in the Union, and two and a half times that of the greatest corn state in the Union — Illinois; more by upward of ten million bushels than that of Illinois and Ohio together; more by nearly five million bushels than Iowa, Michigan, Wisconsin and Minnesota combined; and nearly twenty million more than Indiana, Missouri, New York, Pennsylvania, Maine and California. The increase of the rye product of Kansas in 1876 over 1871 can be summed up in a few words. As it has now become almost monotonous to state, Kansas showed similar increase in rye as in the case of wheat and corn: the greatest in the Union being within a million and a half bushels of the entire increase in the United States. The increase of oats in Kansas as between the years named was upward of double that of Indiana, Michigan, Iowa and Missouri combined, and within 197,000 bushels of that of the three greatest states in the Union — New York, Pennsylvania and Ohio — in the aggregate. As regards barley, the increase in Kansas was upward of a million bushels in excess of that of the states of Illinois, Ohio, Indiana, Michigan, Wisconsin, Missouri, Nebraska, New York, Pennsylvania, Kentucky and Maine. In no one of the three leading grains did Kansas show an increase of less than one and three-quarter million

bushels, running from that up to eighty odd millions. In the three greatest of all marketable crops, Kansas led every state in the Union. Verily, Horace Greeley might have predicted that his own grown-up children would live to see Kansas the fifth, if not indeed the fourth, state in production, and their grandchildren see it the greatest grain-producing section in the world.

A KANSAS HOME.

Students in the great problem of supply, scholars in the attainment of learning cause and effect, and masters in the intricacies of commerce, one and all, must from facts such as these learn lessons of inestimable benefit. If they would know yet more, let them turn to page 87 of the report of the Department of Agriculture for 1876, whereupon commences the work of the government statistician, and follow his remarkably complete tabular statements of the grain yield of the United States. In opening his report the statistician says: "The period covered by the work of this division has been emphatically an era of statistical progress. The advance of the world in industrial invention and social science has demanded increased activity in statistical investigation and greater breadth in statistical statement. The progress of nations in beneficent legislation and good government has been found dependent upon the work of the statistician. The profit of the tradesman and the thrift of the farmer are greatly affected by the accuracy of the information upon which the business operations of each are based. The truth in its plainest garb subserves best the live interests of consumer and producer." The tabular statements commence on page 91, and the accuracy of the comparisons now to be made as between Kansas and the other states of the Union, are open to the test of minutest reference to the official figures.

Kansas led every state in the Union in corn average to the acre; New Hampshire second; Vermont third; the product of Kansas being upward of twenty-one times greater than the combined product of the two states following her in ratio of average. In number of bushels Kansas ranked fifth, her 82,836,000 bushels being nearly ten times greater than the combined product of the New England States; upward of 6,000,000 bushels greater than the combined product of the Middle States, which include, of course, both the great commonwealths of New York and Pennsylvania; within 2,250,000 bushels of as much as the New England and the Middle States combined; greater by 500,000 bushels than the aggregated product of the ten states of New York, Connecticut, New Hampshire, Vermont, Maine, Massachusetts, Rhode Island, Michigan, Minnesota and Nebraska, and seventeen times greater than the combined product of the Pacific States, with the territories thrown in — and all this with but one tenth the tillable land of Kansas under cultivation. The product of Kansas was one third that of the entire South. Of the Western States, Kansas had as much as Michigan, Wisconsin and Minnesota together, and considerably more than 27,000,000 bushels to spare.

BY THE WAYSIDE.

As if aught more was required to prove Kansas the great corn state of the Union in average yield to the acre, the product of 1877 is estimated at one hundred and five million bushels, or an increase of from thirty to forty per cent over 1876. Though the report of the Department of Agriculture for 1877 is hardly as yet fairly under way, and will not be ready for issue until some time in the fall of the year 1878, it is confidently believed that Kansas will again be found at the head of all states in the Union in average, and show her right to the third instead of fifth place in aggregate of production.

Nevada was first in the Union on wheat average to the acre in 1876; Massachusetts second; Oregon third; Delaware fourth; New York and New Hampshire a tie for fifth place; Vermont seventh. Kansas came eighth, so far as the tabular statements went, but when the official figures of the report demonstrate, as they do beyond all question, that the wheat product of Kansas was greater by 144,500 bushels than the combined product of the seven states ranking above her in average per acre, few indeed of those having practical knowledge of the ratio of average to acreage would hesitate a moment in according Kansas the first place. In extent of production Kansas ranked as in average eighth; and as in average per acre so in total product in bushels was the situation strikingly peculiar, inasmuch as Kansas, eighth in average per acre, had greater aggregate of yield in bushels than all the seven states ranking above her combined, so did Kansas, eighth in aggregate of product, show greater average per acre than any of the seven states having greater product in the aggregate.

Kansas, the fifteenth state in the Union in 1871, in the production of rye five years later, as the Report for 1876 shows, led the entire United States not only in production, but in average per acre as well. Oregon had 21 bushels to the acre from the small space of 247 acres, but Kansas, with 165,865 acres, had an average of 20.8, only two tenths of a bushel to the acre less than the one little patch in Oregon. None could question the right of Kansas to first place under these circumstances. The next highest average was that of Texas, 17.5, but she only had a little over 50,000 bushels all told. New York and Pennsylvania each had, in round numbers, 65,000 more acres than Kansas, but Kansas had over 1,000,000 bushels more than Pennsylvania, and nearly 1,000,000 bushels more than New York. Kansas had more rye by upward of 250,000 bushels than all the Southern and the Pacific States put together; more than four times as much as all the New England States combined. Illinois, next to Kansas, had more rye than any other one state, but Kansas had nearly 750,000 bushels more in the aggregate, and nearly six bushels more to the acre than Illinois. Kansas had ten bushels to Iowa's one, and more than Ohio, Michigan, Indiana, Wisconsin, Minnesota, Missouri and Nebraska combined.

THE FIRST CROP.

Oregon led the United States in average of oats to the acre in 1876; Vermont second; California third; New Hampshire fourth, and Kansas fifth, with nearly a million and a half more bushels than the four states having higher average combined. In aggregate of production Kansas was ninth among the states; but of the eight states preceding her in production, not one equaled her average; or in other words, Kansas had more bushels in the aggregate than all of the states excelling her in average combined, and more bushels to the acre than any of the states having greater number of bushels in the aggregate. Notwithstanding the dense city populations of New England, and consequent great demand for oats for feed, Kansas had 2,500,000 more bushels than the whole of New England, and upward of double

the aggregate of the Pacific States. Kansas had over one and a half to every one bushel to the acre in Illinois, and almost the same proportion to the yield in Missouri. Her average was the largest of any Western, Middle or Southern State, 5 bushels greater than Ohio, 9 greater than Indiana, 5 greater than New Jersey and Delaware, 6 greater than Iowa, Nebraska and Minnesota, 8 greater than Maine, 11 greater than Arkansas, 7 greater than Kentucky, and all the way from 8 to 20 greater than the Southern States generally. Kansas had more oats than Minnesota or Michigan and almost any three of the Southern States combined.

Oregon and Texas tied in 1876 on highest average of barley to the acre, though both together they did not come within a million and a quarter bushels of the total barley product of Kansas; Nevada third; Massachusetts and Connecticut, a tie for fourth place; New Hampshire sixth; Kansas eighth with upward of a half million more bushels than the combined product of the six states just enumerated. In point of production Kansas was the fifth in the lists of states, having in round numbers a million more bushels than all of New England, and a million and a half more bushels than the entire South. With the exception of Iowa and Illinois, Kansas had more barley than any other western state, upward of double that of Ohio, more than four times that of Missouri, Nebraska or Indiana, and more than three times that of Pennsylvania.

Wheat.		Corn.		Oats.		Barley.	
State	Value	State	Value	State	Value	State	Value
Kan..	$12.55	Kan..	$10.44	Kan..	$6.97	Kan..	$10.57
Ill....	8.64	Iowa.	7.50	Ill....	5.20	Ill....	8.85
Minn.	7.65	Minn.	10.16	Iowa.	5.84	Neb..	7.04
Ind...	11.22	Ind...	10.20	Mo...	5.25	.....	.....
Iowa.	5.49	Ill....	7.55	Neb..	5.81	.....	.....
Wis..	9.09	Neb..	8.10	.....	.....	.....	.....
Neb..	8.39	Mo.	7.88	.....	.....	Potatoes.	
Oreg.	11.90	Ark..	9.36	.....	.....		
Ark..	7.79	Tobacco.		Buckwheat.		Kan..	$52.50
Rye.						N. Y.	44.00
		Kan..	$70.00	Kan..	$14.00	N.J...	48.00
Kan..	$8.94	N.Y..	58.80	Mass.	6.45	Pa...	42.50
Ohio.	8.70	Md...	55.20	N.J...	9.46	Ohio.	43.40
Neb..	5.60	Va...	48.00	Ohio.	9.15	Mich.	39.60
Iowa.	7.42	N.C..	49.50	Mich.	9.78	Ind...	35.60
Ind ..	8.66	Tenn.	50.50	Minn.	9.99	Ill....	44.75
Ark..	8.69	W.Va.	51.20	Ill....	11.98	Wis..	39.20
Mich.	8.04	Ohio.	52.65	N.H..	12.35	Minn.	34.56
Ill	8.28	Ill....	43.12	N.Y..	12.00	Mo...	30.92
Wis..	8.22	Wis..	48.00	Conn.	12.04	Neb..	24.64
Min..	8.76	Mo...	54.25	Penn.	10.04	.....	.....
Mo ..	8.43	Ky...	52.65	.....	.....	.....	.....

COMPARATIVE VALUES OF PRODUCTS TO ACRE.

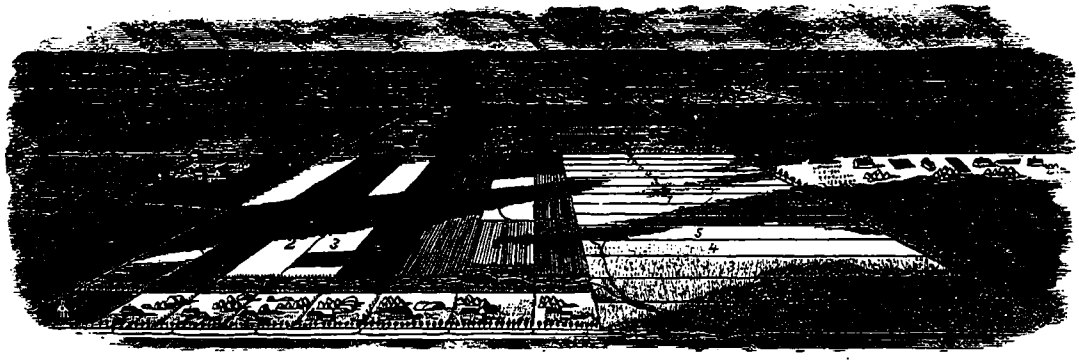
Merely as illustrative of the capacity of the soil of Kansas in the vegetable line, the figures on potatoes are quite interesting, and at the same time suggestive. In 1871 Kansas was the fifteenth state in the Union in point of production, and the sixteenth in average per acre. Just five years later, as per the report for 1876, she was the seventh state in production and the fourth in average, being excelled in the latter respect by only the three states of Vermont, California and Oregon, leaving the average of Kansas greater than that of any of the Western, Middle and Southern States, and with the bare exception of Vermont, the New England States.

Having thus followed the figures on acreage and yield so closely, the next question naturally occurring would be as to the comparative money value of the different crops, the doubt possibly of the market keeping pace with the increased supply. The Commissioner of Agriculture,—who, by the way, was a Pennsylvania man, and hence not to be suspected of far western preferences,—appears to have rightly conjectured the raising of this very point, and on page 103 of the report will be found a decidedly interesting table giving in most minute detail the average cash value of farm products for the year 1876. This complete covering of the ground in the table given herewith shows more strikingly than even the comparisons hitherto submitted the tremendous strides Kansas has made the past few years.

On page 158 of the report, and under the head of Sorghum, will be found the following: "The value of sorghum is scarcely realized by the general public. In a state not in existence when sorghum was introduced into this country, Kansas, the production of syrup has attained a volume equal to one third of the entire yield of 1860." On the opposite page will be found a paragraph as follows: "As an illustration of the increase in a new western state, the product in 1875 in Kansas is reported as 2,542,512 gallons, to 449,409 gallons in 1869. The crop of 1875 was produced on 23,026 acres, average per acre 110 gallons."

An examination of the statistics on sorghum shows Iowa to have been the first state in production in 1860, Indiana second, Illinois third, Missouri fourth, Ohio fifth, Tennessee sixth. In 1870 Indiana was first, Ohio second, Illinois third and Iowa seventh. In 1875 Kansas takes first place, her 2,542,512 gallons, at .65 per gallon, reaching $71.50 per acre, or $1,652,632.80 for the crop.

On page 104 is given a tabular statement of the average yield and average value per acre in the United States as a whole: The yield of corn per acre was at 26.1, while the yield in Kansas was 43.5 bushels; average value per acre of farm products is placed at $9.62, Kansas $10.44. Average yield per acre of wheat in the United States, 10.4 bushels; average yield of wheat per acre in Kansas, 14.6 bushels; average value per acre, $10.86; Kansas, $12.55. Average yield of rye, 13.8 bushels; Kansas, 20.8. Average yield of oats, 24 bushels; Kansas, 31.7. Average yield of barley per acre, 21.9; Kansas, 23.5. Average yield of buckwheat per acre, 14.5; Kansas, 18; average value per acre, $10.53; Kansas, $14.40. Average yield of potatoes, 71.6; Kansas, 105; average value, $48.14; Kansas, $52.50. Average yield of tobacco, 700 pounds; Kansas, 700 pounds; average value, $52.33; Kansas, $70.



HOW THE MENNONITES LAY OFF THEIR LAND.

As to be expected, the finances of so healthy a state as Kansas are of a character calculated to farther increase one's admiration of the unparalleled thrift of her people. Upon the authority of Hon. Jno. Francis, Treasurer of State, is the statement made that Kansas has no floating debt of whatever character, having for the past three years paid upon presentation every warrant or order drawn on the treasury. The bonded debt, January 1, 1878, amounted to $1,182,175. Of this amount there has been purchased by the state $713,600, leaving a balance of $468,575 actually outstanding, and which if called on Kansas could pay upon sight, having more actual cash in the treasury than would cover the indebtedness named. Of the balance of $468,575, however, $382,500 was issued for military purposes, and is due from the United States government to the state of Kansas. A bill is now pending before congress to reimburse the state for this expenditure, and which will reduce the debt of the state to the nominal sum of $86,075. This amount the state is desirous of purchasing, having more money in her treasury lying idle than the bonds come to. In 1865 the population of the state was 135,807, and the state taxes per capita $1.60; in 1870, with a population of 364,399 the state taxes per capita were $2.22; in 1875, with a population of 531,156, the state taxes per capita were $1.37, and in 1877, with an estimated population of 700,000, the state taxes per capita were $1.12, or a decrease within a fraction of one hundred per cent in seven years, and the lowest debt per capita in the United States.

GERMAN THRIFT.

Having learned from national and state authority of the remarkable position Kansas has so rapidly assumed among her sister states, by the time Topeka is reached few indeed, with even ordinary comprehension of the facts already stated, could restrain a desire to inquire to a more or less extent into the inner workings of a state of such commanding influence upon the markets of the world. Topeka is not only the capital of the state, but the location of the main or home office of the Land Department of the Santa Fe road, an institution honestly and justly credited with the lion's share of the proud work done in peopling the state of Kansas with the strong-armed, big-hearted, industrious men who have made the old Santa Fe trail blossom like a very garden. Granted by the government some three million acres of land, which up to the time of transfer to the company was hardly removed from a desert, and utterly without revenue to state or nation, it has been transformed into so vast a granary that since the completion of the Atchison, Topeka and Santa Fe Railroad to Kansas City that point has become the greatest grain centre of the new West. We say, transformed it, meaning but such portion only as has been transformed, for within its grant the Santa Fe has yet nearly two and a half million acres of land unsold, and much of this in the Arkansas Valley, the growth, capacity and fertility of which is utterly without parallel on the continent. As have the statistics of the National Department of Agriculture shown Kansas to stand toward the other states in the Union, so do the statistics of the State Department of Agriculture demonstrate the Arkansas Valley to stand toward Kansas.

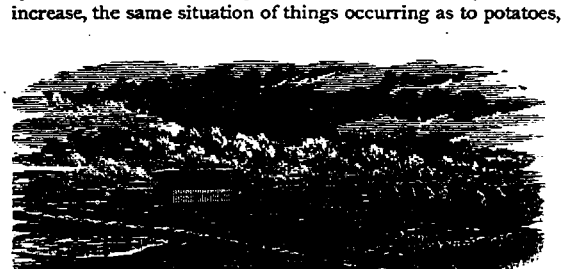
The Arkansas Valley does not, as some persons may think, take its title from the state by that name, but rather from the river from which the state of Arkansas takes its name. The line of the Santa Fe strikes the Arkansas Valley at Newton, in Harvey county, and from thence to the Pueblo in Colorado follows the banks of the Arkansas so closely as to rarely, if ever, lose sight of it.

In 1872 — five years ago — the entire acreage of all grains in the whole Arkansas Valley — comprising then five, and now nine, counties — was but 7,421. In 1877 the acreage in the nine counties of the Valley, as given upon the sworn statements of assessors and county clerks, was 582,868, an increase in the five years of 575,446 acres, or nearly 800 per cent. Possibly the extent of increase year by year in detail would please the reader, and it is here given: Increase 1873 over 1872, 31,843 acres; 1874 over 1873, 91,910 acres; 1875 over 1874, 97,277 acres; 1876 over 1875, 96,369 acres; 1877 over 1876, 201,428. The acreage of the different years up to 1877 is given from the highest, and in reality only, official authority in the state, the Board of Agriculture; the acreage of 1877 is from the supplementary report, the official report for 1877 being only in its incipient stages. The basis of all the reports of the board are the sworn statements of county officials especially designated by legislative enactment to perform such duty, hence the figures given are of record and susceptible of proof by that record. Of the entire wheat acreage of the state in 1877, nearly one fourth, was in the nine counties of the Arkansas Valley, while the increased wheat acreage of the Valley over 1876 was nearly four times greater than the net increase of the entire state. Of the corn acreage of the entire state, one thirteenth was in the Arkansas Valley, and of the net increase of corn acreage in the state, one seventh was in the Valley. Of the barley acreage in the state, more than one seventh was in the Arkansas Valley, and while the state as a whole showed a decrease, the Valley showed an increase. Of the oat acreage of the state, one sixth was in the Arkansas Valley, and though the state entire showed a decrease, the Valley had an increase. Of the rye acreage of the state, one twelfth was in the Arkansas Valley. Of the potato acreage of the state, the Valley had one twelfth, and an increase, whereas the state at large showed a decrease. Of the sorghum acreage in the state, the Arkansas Valley had one ninth, and nearly one fourth of the increase. The tobacco acreage of the Valley showed an increase, while the state at large showed a decrease. The broom-corn acreage of the Arkansas Valley was nearly one half that of the entire state, and the increase within 1,410 acres that of the whole state; and in millet and Hungarian an increase nearly equal to one fifth that of the state. The total acreage of the Arkansas Valley, that in 1872 was but a trifle over 7,000, was in 1877 nearly one seventh that of the whole state, and showing nearly one third the increase of all Kansas over the previous year. When it is taken into consideration that there are some seventy odd counties in the state of Kansas, and the majority of them old in organization when the Arkansas Valley was known as a portion of the "Great American Desert," the growth of the Valley cannot but assume a wonderful interest.

CORN BOTTOMS.

A word or two as regards Mr. Alfred Gray, the secretary of the Kansas Board of Agriculture, would not be amiss at this juncture. A more conscientious, conservative or faithful statistician never lived than Mr. Gray, and no man ever worked more diligently, energetically and unsparingly in the interest of a state than has he in the interest of Kansas. So conscientious and careful is he in all his statement of yields that it is often said of him that were he to secure absolutely exact figures to the very gill to the bushel of an aggregate yield, he would straightway deduct from ten to fifteen per cent, and so give it to the world. The Department at Washington having the fullest confidence in him, and knowing his almost universal rule of being below rather than above the actual result strikes a happy medium between him and its own extensive corps of correspondents in the state, and the consequence is the Department returns are often, if not always, a shade above Mr. Gray's.

And now for a brief glance at the yield of the Arkansas Valley in 1877 as compared to the state entire. In bushels of wheat, the nine counties known as the Arkansas Valley, equaled one-fourth of the state of seventy odd counties entire, while in increase of bushels over the previous year that of the Valley, exceeded by twenty-three times the net increase of the state. In bushels of corn the Arkansas Valley had nearly one-fourth the entire increase of the state, and in bushels of barley upward of one-half the entire net increase of the state. In bushels of oats the Arkansas showed an increase nine times greater than the net increase of the state as a whole, while of the decrease of rye in the state but one-eighteenth was in the Valley. In bushels of flax the state at large showed a decrease, but the Arkansas Valley had an increase, the same situation of things occurring as to potatoes, both Irish and sweet. In gallons of sorghum the Arkansas Valley had one-eighth the aggregate of the state, and nearly one-half of the increase. In pounds of broom-corn the Arkansas Valley had within a little over a million, the entire increase of the state. A general summary of product in the aggregate shows the Arkansas Valley to have had an increase of 8,455,394 bushels of wheat, corn, barley, oats, rye, flax, buckwheat, Irish and sweet potatoes and castor beans, an increase of 127,478 gallons of sorghum, an increase of 4,376,933 pounds of tobacco and broom-corn, and an increase of 18,559 tons of millet, Hungarian and timothy, an increase all around averaging fully one hundred per cent. In bushels the Arkansas Valley equaled one-tenth of the state, and in increase of bushels upward of one-fifth that of the whole state. In gallons, one-eighth of the state, and in increase of gallons, nearly one-half that of the state. In pounds, the Arkansas Valley equaled nearly one-fourth the entire state, and in increase of pounds within a million, or little more of the aggregate increase of the state. In tons the Arkansas Valley equaled one-



DAIRY FARM.

thirteenth the state entire, and in increase of tons one-seventh. None of the statistics thus far given have included the 10,526 acres of clover meadow, 501,006 acres of prairie meadow, 4,201 acres of timothy pasture, 1,433 acres of clover pasture, and 551,093 acres of prairie pasture (under fence), which properly come under the head of total acreage of the state which in 1877 was 5,545,765.

Certainly no excuse could be demanded for thus devoting so much time to statistics so closely concerning not only the welfare of the nation but thousands of its best men, who, in the overcrowded sections of the older states, view with dread and anxiety the future as it looms up so blackly to them. The earnings of years of patient toil and sacrifice, if not already ruthlessly swept into the fearful vortex so rapidly swallowing up the savings banks of the country, are mayhap upon its very verge; and with the workshops closing up, the tightening upon the money-bags of the rich, and fear of investing in anything requiring free use of capital, all combined render life dependent upon the confidence of others simply unbearable. There was a time when labor was safely and happily distributed; manufactures and commerce were conducted by private firms of two or three individuals who depended on their own capital and were cautious in risking in hazardous speculations. Under the private regime labor was freely mobilized and equally distributed among all the industrial occupations. The force needed by one of them was not weakened by the demands or attractions of another, and capital and labor moved on hand in hand. But when congregate industries, established by incorporated capital, drew vast amounts of labor from agricultural life and occupation, and massed it in manufacturing towns, the market soon became gorged with the production of so many competing wheels, and then came the inevitable result: Thousands of sturdy men stranded upon the beach of speculative life, and forced to look to themselves rather than great corporations for sustenance, have already become their own masters in this land of thrift and plenty; and how better solve the problem of relief for the idle manhood of the country than by a simple showing of what those have done who, in the full conviction of the fact that God ever helps them that help themselves, have demonstrated their faith by their deeds? The record of the unparalleled increase in grain production in the Arkansas Valley itself tells of an immigration of no ordinary magnitude. Latest census statistics give details of such character as cannot but impress one with the firm belief that the Valley is destined at no distant day to rival the grandest agricultural districts of the world. In 1870 the entire population of the nine counties comprising the Arkansas Valley was but 2,019, in 1876 it reached 45,868, and by as close an estimate as possible to make, in the summer of 1877 it had then reached 67,450, or an increase of upward of 22,000 new people within less than a year. There is not the slightest question of there having been a further increase of fully 8,000 people by the close of the year, for outside of the vast amount of railroad land sold, the official report of the transactions of the government land office at Larned, on the line of the Santa Fe, denotes an increase of business of astounding proportions. The transactions for the year 1877, as reported over the official signature of Hon. Charles Morris, U. S. register, show upward of 600,000 acres presented by the government to those asking in a single year at a single land office in the Arkansas Valley, and yet rabid demagogues of every political stripe blatantly repeat and insist that railroad corporations have gobbled up all the public land worth having. Register Morris has yet from ten to twelve millions of acres of public land in his district, any or all of which is to be had by those asking it for homes. The 600,000 acres taken up in 1877 at the Larned office represented in round numbers 5,000 claims, and averaging claimant families at five persons each,—certainly a light estimate,—we have an increased population at the western end of the Arkansas Valley in the year from this one source alone of 25,000. At Wichita, Sedgwick county, there is another government land office, the business of which for the year 1877 was very much larger than ever known since it was established. The official figures of the year's transactions are not before us, but well authenticated reports place the number of acres taken up during the year at something over 400,000, representing 3,500 claims, which, at the rate of five persons per claim, would show an increased population in the eastern end of the valley from this one source of 17,500.

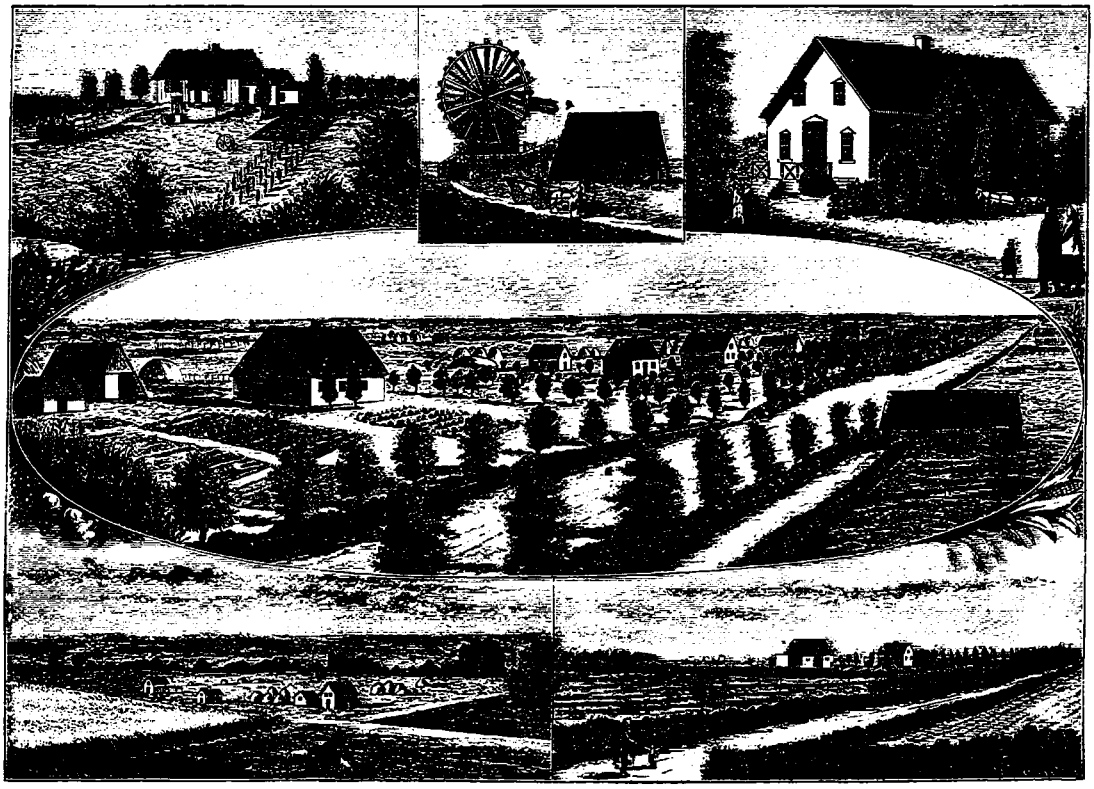
Having learned thus much of the line of the Santa Fe, the embarking for the trip over it is accompanied with anticipations all the more keen, and once fairly off, the sensation while novel is none the less pleasing, for what is more enjoyable to the experienced traveler, as we will suppose the reader to be, than a break in the routine of finished country. The newness of the new world is conspicuous always. The towns are young and precocious, the villages are young and awkward, and the lumber-yards young and green with the freshly-cut verdure of the forest, and the universal boast seems to be, "See how young we are." You stop at a city of 10,000, and upon every side you will hear it casually remarked that but a few years ago it was almost an unbroken wilderness. You stop at a thriving town of 5,000, and they will tell you that three or four years since there wasn't so much as a shanty within a mile, and bright and early of a morning you wake up to find a new town upon the site of which the month before there was not even a clump to mark the spot.

In this very newness, this babyhood of prattling pride, there is a something that causes our blood to leap again, as it did when we were new to the world, so new that every thought was of activity, every muscle hard, yet flexible, and every breath one of conscious power that in us was the stuff that made man worthy of Him in whose image he was created. So with these lusty young cities of the new West. Beauty in their infancy they have but little; in this, however, they not infrequently verify the old saying, to the effect that pretty babies make ugly grown folk, and vice versa. What is lacking in beauty is more than made up in muscle, nerve and industry; and if the streets are not thronged with multitudes, it proves that the people have something else than sidewalk measuring to occupy time and feet; and if no grand palatial mansions, a healthy scarcity of savings bank presidents and cashiers is indicated.

As fancies of such character flit through our mind we have glided into the valley watered by the Cottonwood, and backed by hills with gentle acclivities from the summit of which you see directly beneath you the fertile valley dotted with farms, and broken here and there by patches of woodland, smiling in the sunlight, and constantly changing as the waves of shadow chase each other across the varied mass of green. The rich bottom lands so abundantly watered are not surpassed in the world in yield of corn; and the high uplands, covered with most luxurious grasses, afford pasturage for cattle not to be excelled anywhere. As we continue on through the very heart of the Valley we gain new admiration for the thrift of those who, appreciating the wonderful adaptability of this region for dairy uses, have brought here splendid herds of fine graded cattle, which, seen from the train, look fat, sleek, and healthy enough to enter any sweepstake-ring in competition with the best in the land. As we near Florence, the country becomes more broken, more diversified in its features, and would set an Eastern dairyman's palms to itching to control it for grazing purposes, as it is certainly eminently fitted for it. Cropping out on either side of the road the visible supply of limestone is such as to at once set at rest any doubts one may have of the abundance of building material in this section, the quarries about Cottonwood Falls and Florence having long been worked with decided profit. That portion of the capitol building erected since the opening of the Santa Fe road to Florence, as well as many others in Topeka, were built of stone from the Cottonwood Valley, and several of the finest structures in Kansas City of the same material. There is excellent water-power almost anywhere upon the Cottonwood, there being a never-failing supply of water and ceaselessly rapid current. There are several mills already running with power from this one source alone, and the erection of others is merely the question of time required for construction. The counties of Chase, Marion, Butler and Morris are all in the Cottonwood group, and of the greatest producing counties in the state.

At Newton we are at the end of the first division of the road, and at the entrance, or gateway, so to speak, of the Arkansas Valley, the most glorious domain of rich, fertile and well-watered land on the western hemisphere. To the north of Harvey county, of which Newton is the commercial centre, is McPherson county, and to the south Sedgwick county, like pillars of a gateway, and forming in their imposing development most fitting entrance to the garden of the continent. Beyond, step by step the landscape leads you over swelling plain to vast distance, which melts by imperceptible gradations into the gracious sky, and impresses the heart with a conviction that just beyond your power of sight is a better, nobler clime—a lovely land where all is beautiful. The first sensation of the prospect is simply one of immensity. The sweep of the vast spaces are bounded only by the haze of distance. Opening out at Halstead to a width of fully fifteen miles the Valley glows with universal vegetable profusion, the earth is carpeted with vernal green, and the prodigality of vegetation reigns supreme. The line of the road for a long distance before us is on the north side of the river, which constantly bends and curves, knotted like a broad, tangled, golden ribbon over the green country. Back from the

river the long slopes of ideal fat fields, which a New England farmer can only see in his dreams, extend for twenty miles to the northern limit of the Santa Fe's land grant, which marks the top of the divide from which the streams feeding the Arkansas and its branches flow east and south. A long, smooth, southerly slope of twenty miles to the Arkansas river is, then, the grant of the Santa Fe, an unbroken fertile prairie with scarcely a square foot of untillable land for two hundred miles, or to the extreme western limit of the present agricultural settlement. Halstead, while possibly of itself not deemed worthy of more than a passing glance at its neatness and general air of comfort, is from its associations one of the most interesting points on the road. It is the commercial center of the Mennonites, those peculiar people transplanted from the steppes of Russia to the rich Valley of the Arkansas, and who, in bringing with them habits and customs of a hundred years ago, form one of the most interesting and suggestive features in the rapid development of the New West. They are a distinctly religious people, and make their settlements in colonies with mutual interest and a common church for bonds of fellowship. There are now about 8,000 of them in this section, and more coming every year. They own something more than 200,000 acres of land on the line of the Santa Fe, all purchased of the railroad company, and mainly for cash. Each colony has a village consisting of one long street, with houses a few rods apart all built in the same style, and the farms of the colonists lie contiguous to these villages. The church, which is also a schoolhouse, stands at one end of the single-streeted town, and around it cluster all the moral and social interests of the colony. It is a plain structure, always, and the minister, like all his parishioners, is a farmer, who with his own hands supports himself and family, and preaches only because "called of God" so to do. The religion he expounds is similar in many respects to that of the Lutherans—its patron saint, Menno Simonis, having been contemporary with Luther in Germany. It opposes infant baptism, the bearing of arms and the taking of oaths, and inculcates practical moral laws and duties rather than abstract theological speculations. It is not a cheerful religion, by any means, but it seems wonderfully adapted to its stolid professors, and it certainly makes honest men and good citizens of them. The Mennonites take no part or interest in politics, and rarely fellowship with other religious denominations; indeed they have as little as possible to do with "the world's people" in any way, though if you visit them you will find them remarkably hospitable, polite and communicative. Their homes are plain and neat, without carpets or stoves, and with very little furniture. The houses are heated by huge brick ovens in the centre, where most of the cooking is also done. Their food is of the most frugal kind, and principally vegetable. Their favorite fruit is the watermelon, which they raise in abundance and eat without stint. As farmers, the Mennonites are models of thrift and industry. Their fields are cultivated with scrupulous thoroughness and their yields of grain are enormous. They raise corn and wheat mainly, though they do something also in smaller crops, and they are preparing to go into silk culture, an industry to which they say the soil and climate of Kansas are peculiarly adapted. They have good live stock, as a general thing, though they do not devote special attention as yet to that branch of husbandry. The women are a plainly-clad, good tempered set of beings, "a little lower" than the men in point of force and intelligence, but equally industrious and practical. In fact, personal industry is the Mennonite crown. A drone or shirk cannot live among these toiling and economical people. Their very religion has labor for its corner-stone and chief glory, and "a good crop" is the outward and visible sign of moral and spiritual grace—or at least without that sign, unless the season has been notably unfavorable, the possession of grace is seriously doubted.



MENNONITE SETTLEMENT AND SURROUNDINGS.

The Mennonites have contributed largely to the rapid development made in Harvey and McPherson counties the past five years. The former county had in 1872 a total acreage, under cultivation, of 1,994, and in 1877 75,552 acres, an increase in the five years of 73,558 acres. The figures are all from the official reports for the year named of the State Board of Agriculture. Newton, the business centre of Harvey county, is a lively, thriving town of 1,200 to 1,500 people, and division headquarters of the Santa Fe road.

McPherson county, north of Harvey, is eminently an agricultural section, having no towns of any note, and is as yet without direct railroad communication, though living in great hope of becoming the main support of a division of the Santa Fe—by no means to be classed as insignificant. The development of the county has within the past five years been most marked, having in 1872 had but 3,615 acres under cultivation, all told, and an idea of the remarkable progress made since may be gleaned from the fact that in 1877 the county had a total of 119,619 acres, an increase in the five years of 116,004 acres.

Sedgwick county, south of Harvey, is another illustration of the amazing growth of the Arkansas Valley since 1872, not only so far as relates to the production of grain, but in the building up of leading commercial centres, the city of Wichita being the metropolis of the southwest and the fifth city in population in the state. The trains of the Santa Fe run to Wichita direct, with fine prospect of continuing on through the counties of Cowley and Sumner before the summer is over. Sedgwick county in 1872 had but 894 acres in the aggregate under cultivation, and five years later, or in 1877, the county had a total of 129,222 acres.

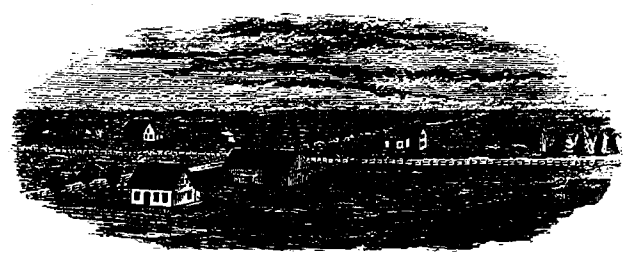
WELL TO DO.

Thus in the three first counties of the Arkansas Valley as you enter it, Harvey the arch and McPherson and Sedgwick the supporting pillars, we are confronted with a development in the short space of five years that cannot but fairly stun one from the older and finished states. In all these three counties there was but the pitiful little batch of 151 acres of wheat in 1872, and in 1876 145,439 acres. But 6,503 acres under cultivation in 1872, and the enormous aggregate of 324,393 acres under cultivation in 1876. Truly this is a crusher on the arithmetic of one's comprehension, yet we are not through — have not reached the climax of stupendous progress — only barely reached the Valley in fact.

Following the main line of the Santa Fe we leave Halstead behind and are soon at Burrton, the centre and heart of the greatest width of the Arkansas Valley, and the full realization of one of Nature's most charming pictures, a Kansas prairie. Seen in the early summer time, the rich emerald green carpeting of its gently rounded billowy surface form as beautiful background for the many-colored and delicately-tinted flowers that deck its breast, lovely as that of a virgin. It is a charming scene, and, as if to inspire its enjoyment to the very greatest degree, the purity of the atmosphere lends an exhilarating effect, and stimulates to the keenest the pleasure of the ever-varying panorama presented as we glide swiftly on. In the picture before us we feel something of the enthusiasm inspiring Bryant when he wrote: "Lo they stretch in easy undulations far away, as if the Ocean in its gentlest swell stood still; with all his rounded billows fixed and motionless forever."

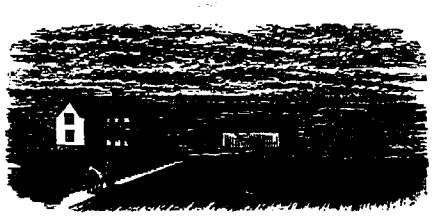
Owing to the line of the Santa Fe having been constructed on the north side of the river, the towns have naturally clustered upon that side, and the river also acting as a barrier, settlement until of late on the south side was rather meagre. Within the past year or two, however, much new ground has been broken south of the Arkansas, and some of the finest crops known in all the Valley raised from the sod or first breaking. Just opposite Burrton there is one of the largest and finest bodies of unoccupied land on the eastern end of the grant, and with the erection of a bridge over the river early in the spring, as determined upon, this splendid tract will be rendered as advantageous for settlement as any in the Valley. Bridges now span the river at all leading points from Hutchinson westward, and judging from the rapidity with which settlement on the south side has followed their completion, the new bridge at Burrton will prove a most profitable investment for the people of that and adjacent townships.

Pulling up at Hutchinson, a glance from the car window adown the busy main street tells truly of the thriving character of the place. It is a metropolis in miniature, with its handsome stores, substantial brick buildings and general commercial character. Its inexhaustible water-power cannot but render Hutchinson something of a manufacturing center at no distant day, and if ever the Arkansas is made navigable this will be one of the most important points on its course. Just as the train comes to a halt, the spacious doors of a large and exceedingly attractive school house are dashed open, and from them bursts forth a troop of lusty-lunged, rosy-cheeked children, the girls vying with the boys in all outward manifestations of perfect health. There must be fully a hundred youngsters in the merry groups that go tearing about like so many frolicksome colts, and what with the children so strong-limbed and bright-eyed, school-house so substantial and roomy, homes so inviting in their nests of abundant foliage, stores so attractive in their bright plate-glass fronts, churches so imposing in their towering spires, and citizens so well conditioned generally, any idea one may have entertained of the Arkansas Valley being simply a remove from the very borders of civilization takes wings never again to appear even in a dream.



A NEW SETTLEMENT.

Aside from the hallucination entertained by a good many people, to the effect that the main streets of business centres hereabout constitute favorite grazing ground of the wild untamed bison, equally preposterous notions are cherished regarding the ruling prices for such commodities, not to say necessities, without which life would be drear and forlorn. The fact is, the cost of necessities as well as luxuries throughout the entire Valley is so exceedingly reasonable as to cause surprise even among those supposed to have a very fair theoretical knowledge of the country. While in the smaller towns the demand for luxuries is not so great, there is an ever-present conviction that the very best of substantials are the cheapest, hence one will find stocks of goods in all lines of trade which will compare favorably with those carried in the oldest of New England towns. In the way of every-day demands, No. 1 coffee runs from three to four pounds for a dollar; sugar from five to eight and a half pounds for a dollar; flour from two and a half to four dollars a hundred; canned fruits, vegetables, etc., two pound cans for twenty cents, three and four pound cans in similar proportion; salt three dollars per barrel, and so on through the long list. Calicoes range from eight to sixteen yards for a dollar; cotton eight to twelve cents. "Indian Head," "New York Mills," "Wamsutta" and other well known brands of muslin, ten to twelve and a half cents per yard. Boots, shoes, clothing, hats and caps, and such sort of things, run about the same as in the East. One can get a good stove with accompanying utensils from twenty dollars upward, while in all classes of hardware the prices range equally reasonable. Not only are the stocks carried as extensive and well selected as in places of similar population at the East, but in very many instances throughout this Valley the stores are a long way in advance, both in dimensions as well as in handsome, and in not a few cases really elegant, appointments. To some it may appear incomprehensible that merchants so remote from the great business centres of the East can equal the advantages of brother merchants in the Middle and the New England States in respect to low range of prices for all descriptions of staple goods. To those so puzzled the single item of freight appears to be insurmountable. Granted that the freight on all classes of goods, and particularly on hardware and other heavy merchandise, is an item of no inconsiderable importance, it is more than counterbalanced by the much lighter range of store expenses. Here the merchant is his own head clerk, his own book-keeper and cashier, to a greater or less extent. If occasion demands, he is his own porter, is first up in the morning and last to bed at night. His rent is less, gas bills ditto; in short he lives upon what many of those East would consider the unavoidable loss incident to business life. This is the class of business men, close and keen in their purchases, liberal in their dealings, and untiring in their energy and enterprise, who have built up the thriving, prosperous commercial centres which now line the beautiful Valley of the Arkansas, and render the Atchison, Topeka and Santa Fe Railroad the great artery of communication it is from river bank to mountain base.

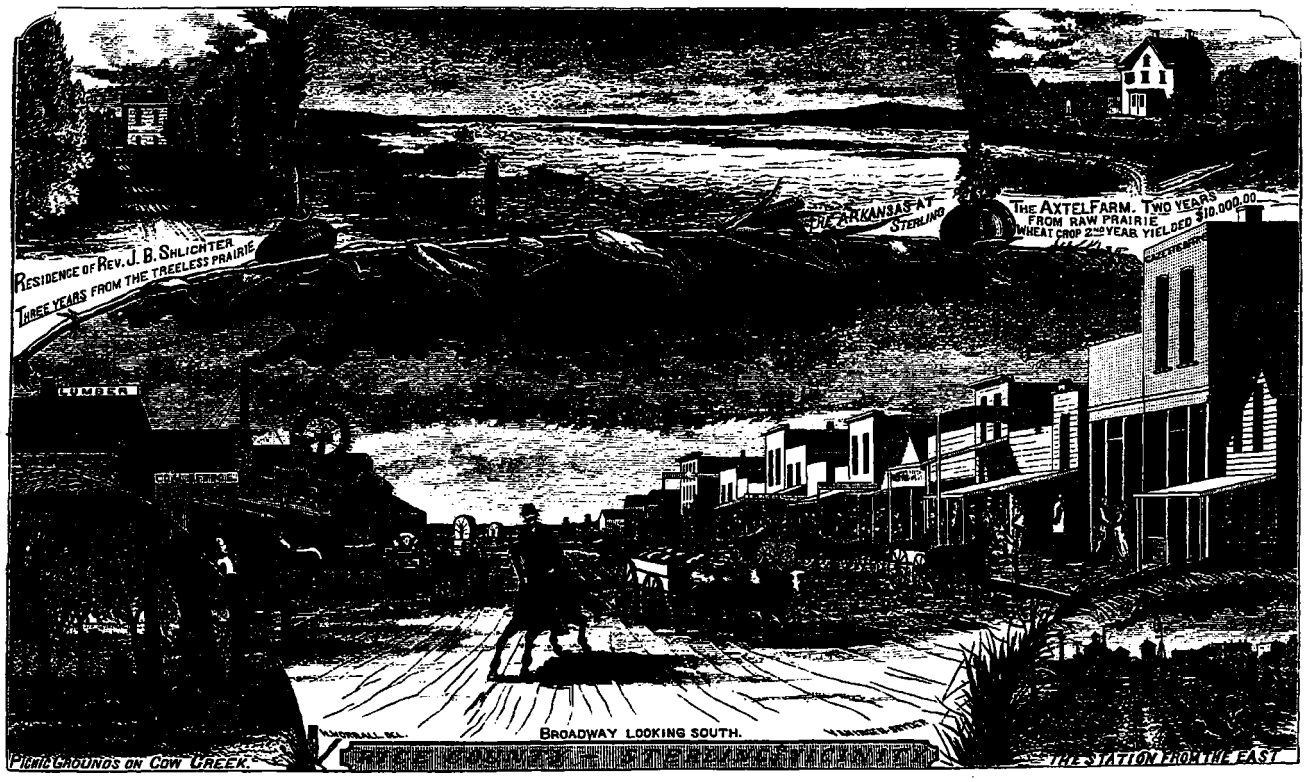


TWO YEARS' DEVELOPMENT.

Hutchinson is the business centre of Reno county, and some conception may be formed of the agricultural wealth of its surroundings from the fact that though in 1872 Reno county had only 894 acres in all under cultivation, in 1877 the county had a grand aggregate of 79,298 acres, an increase in the five years of 78,404 acres. Southwest of Reno is the great cattle range of the Medicine Lodge country, where immense herds have been gathered for years, and wintered year after year with no other feed than that afforded by the wonderfully rich grass of the range. Beyond Hutchinson a few miles we stop for water at a little station known

as Nickerson, and at which point, as well as just opposite on the south side of the river, there are fine bodies of land as yet unbroken, and waiting only the sturdy arm of the husbandman to blossom into gardens of vegetable profusion.

Reaching Sterling, the seat of the local commerce of Rice county, we have another near view of busy life, the little town being fairly thronged with farmers' vehicles of every description, and a general air of ceaseless activity pervading everywhere that bodes well for the future of the young city. The centre of trade in Rice county, with Reno county just opposite on the other side of the Arkansas, Sterling cannot but thrive so steadily and substantially as to become at no distant day one of the most important points in the whole Southwest. The country around and about it is settling up with wonderful rapidity, the sales of land at the local agency in Sterling the past few months having been enormously large. Rice county must have fully doubled her population in a single year, it being little of the hazardous to estimate the present population at 8,000 to five persons all told in 1870. Indeed one cannot wonder at this remarkable rate of progress when viewing the beautiful country that lies within the confines of the county's boundaries. The lay of the land, to indulge in a common agricultural phrase, is most captivating to those who can appreciate a perfectly natural drainage, the prairie gently undulating between stream and stream, and so absolutely smooth its surface that one could drive in the dark over almost any part of it without the slightest danger of accident. From Sterling north nine miles to Lyons, the county seat, the road the entire distance is all the way through a beautiful pastoral country where in the happy harvest time the fields laden with bearded grain rise and fall in billowy slopes as if waving graceful recognition to the babbling brooks permeating the rich bottom lands as they go singing on their way. After an early supper and the coming of the cool invigorating breezes that ever fan to sleep the hottest of midsummer days in this locality, the ride, or perchance the canter horseback, from Sterling to Lyons is beyond description in glorious commingling of landscape and atmospheric delights. The entire beautiful, boundless and priceless expanse lies before you all aglow with color under the low sun, and out to the west the color deepens and deepens until it seems to be no longer atmosphere, but substance like some supernal gem. If ever one had asked himself if by any other name a rose would smell as sweet, he could not but think in crossing



Cow Creek that by any other name it could be more picturesque in sparkling purity of water, in high grass-covered banks, or in exquisite profusion of densely foliaged trees. There was little of the romantic in the herdsmen that but a few years ago ranged this section over in winter grazing immense herds of cattle, and the mere chance of a stray cow being found chewing her cud of contentment under the shady banks of the stream would have sufficed to have given it the anything but suggestive name which it must doubtless bear evermore. There is the Little Cow Creek and the Big Cow Creek and numberless smaller streams watering the country for miles about, and from the roof of the Court House they so enhance the fascination of the view as to make one despair of ever reproducing it in pen or pencil picture. Everywhere one gets delicious effects, and so beautiful as to be beyond all expression. Truly one might exclaim, Here indeed are the lungs of the continent!

Rice county in 1872 had barely a single quarter-section of land—160 acres—under cultivation, while in 1877 so grand had been the progress that the total acreage of the county reached 51,139.

Next beyond Sterling is Raymond, a little hamlet now, but who dare tell of the possibilities of the future hereabouts? From Raymond it is but a short run to Ellinwood, a German settlement of far from insignificant proportions. Already there are two churches completed, and the stores, dwellings and general character of the place has the solidity of appearance betokening years rather than months of progress. Ellinwood, as well as the territory immediately surrounding it, is settled largely by a class of rich, well-to-do farmers from the older states, coming here with plenty of money to almost instantly transform the prairie into an agricultural section, vying with New England in all that goes to make the farmer's heart glad. A good many of the people in this immediate section are from Pennsylvania, and with the perfect ease of preparing the ground in the Arkansas Valley for the seed, so thoroughly appreciated, can laugh heartily over the early accounts giving such ludicrous pictures of attempts in their own state to clear land. A number of hardy, stalwart pioneers would assemble around some giant sycamore. Part of them would pull at the branches with ropes, and others would hack at the trunk all around until the ground would be covered with chips and the tree gashed from top to bottom. A whole day would be spent in the task, and when at last the tree fell, it generally carried with it some of its awkward executioners. To get rid of the fallen tree they would make a trench alongside, and with many a shout push it in and bury it out of sight.

It would certainly be absurd to claim that there is now any such novel method of clearing land as this in vogue in our free and enlightened country, yet nevertheless there are thousands to-day who go to more expense in simply clearing land than better land itself still costs in the Arkansas Valley. And when they have their land cleared they suffer continually from the forests not cleared, and if not tempted to write, as did one of the early pioneers in New York: "The harvest cost me nothing, as it was most effectually done by the squirrels, coons and other wild beasts of the forests," often think of the primitive days and sigh at the little progress made since. Constantly running afoul of snags of stumps long since thought to be completely demolished, turning short here to avoid a huge rock, or barely there escaping collision with a full fledged tree in its prime, latest improvements in those marvels of labor-saving achievements, agricultural implements, are vexations rather than blessings, for without them their value was not known, and with them a mortification that it cannot be profited by. On the other hand, the farmer in the Arkansas Valley has not only no clearing to do, but in the breaking of the virgin soil, the pulverizing, seeding and cultivating, the cutting and the harvesting is enabled to take fullest advantage of the grandest triumphs of the inventor, having no fears of running the most intricate of mechanism over his fields day or night. It is like driving over some great monster floor or mighty roll of beautiful carpet stretched by cunning hands so that perpetual motion might at last be achieved by simple perfection of level. Last summer, when the rapidity in which the grain ripened in some localities caused the straw to become so heavy and brittle as to be handled with difficulty during the heat of the day, many farmers cut at night with headers, reapers and mowers, or harvesters, as readily and effectually as by daylight. In no country can the most approved farm machinery be worked to such advantage as here, and certainly no country of four times the age of the Arkansas Valley has more improved machinery at work. Harvesting was once considered the laborious season of the year, but so far as this section is concerned is so no longer. The old cradle has completely given way, and for that matter the old style of reaper as well. It no longer requires a man to drive, one to rake, five to bind and one to shock, or eight men to a reaper. Even the self-raker has almost disappeared before the harvester, the latter requiring one driver, two binders and one shocker, just half the force of the old reaper. Then comes the "self-binder," doing the same work with only two men—driver and shocker. And there is still, as a good many think, a speedier and cheaper method than the "self-binder"—the header. This machine, used to so great an advantage upon the broad, level lands of the Valley, simply takes the heads off of the standing grain and deposits them in a wagon driven alongside; when loaded, the wagon is driven to the stack—or to the threshing machine—and another takes its place at the "header." With the header there is neither binding nor shocking, and with those who have become familiarized with its use claim they can do the work of harvesting at less than half the expense attending even the binder. With the latest improved haying machinery hay can be cut and stacked at less than $1 per ton—how much less depends upon how thick it stands on the ground. Corn is planted and cultivated at a corresponding reduction of labor and expense. Instead of one man to "mark," one to "drop" and three or four to "cover" with hoes, two men with a planter mark, drop and cover two rows at the same time, and do on the average fully as much as ten men could in the same time by the old method. In cultivating corn one man with a modern cultivator plants the corn twice as fast as with the old one-horse plow, and hoeing corn is entirely unknown in the Arkansas Valley. In plowing, the neat iron sulky on which the driver rides and drives three horses reduces human labor to the mere guidance of the team, and the amount of work is regulated entirely by the strength and endurance of the horses. Then there is the gang plow, similar to the sulky, and to which two or three plows are attached, the team driven and the plow operated by one man. Of late, a steam plow, with attachments for not only cutting but threshing the grain, has been invented, and will doubtless be tested in the Valley this season. In sowing wheat in the Arkansas Valley drills are used almost, if not quite, without exception, wheat drilled in thoroughly having by experience been proven to do incomparably better than when sown broadcast. With the drill the seeder rides as in a sulky-plow, doing more effective work, in the sowing of the grain as well as placing it in the ground, than five men sowing it broadcast.

To many readers these are familiar if not common-place facts, but to many more they are new and almost romantic in interest, while to all they tell a story of achievement at the very base of human industry that cannot be measured. Labor is reduced and relieved of many of its old forms of endless drudgery, and in comparison made easy if not indeed attractive. With such machinery as is now provided for the farmer, and such land as is offered by the Santa Fe Company at from $3 to $8 per acre, thousands of young men in the great cities of the East, now idle, or the next thing to it, can here find, not employment only, but by industry and economy, soon place themselves above the fluctuations of the labor market of the overcrowded manufacturing centers. While money in the Arkansas Valley, as elsewhere, commands many advantages not otherwise secured, still, here industry, energy and a will that knows no daunting, go far toward supplying the place of dollars. Good land can be bought of the Santa Fe Company for $5 per acre and eleven years' time had in paying for it with seven per cent interest. On this plan of purchase all the money required for the first payment on 160 acres, upon taking possession, would be $80, with the interest on the principal $50.40 or $130.40 all told, while at the expiration of second and third years there would simply be the interest to pay, $50.40 each year. For the nine years following the yearly payments would be $80 each with the constantly decreasing interest, which from $44.80 the fourth year ends at the eleventh year at $5.60. Now supposing a young man with one team of horses, a breaking plow and a harrow, purchases 160 acres on these terms. He commences work early in the spring, has no fences to build—the herd law requires all stock to be herded—no stumps or stone to clear, the land being free from both. He commences breaking his land at once, and within a few weeks has enough sod turned over and pulverized to put in a fair crop of barley, rye or broom-corn, and possibly a little spring wheat. From these, and such vegetables as he puts in during spare time, he clears profit sufficient to carry him through the summer, and the ground broken and planted in the spring will in the fall be in good condition to seed in winter wheat. If at all energetic the young man will have prepared enough ground to enable him to put at least fifty acres in wheat in the fall, and with say 15 bushels to the acre—a light yield—will the following June harvest 750 bushels, which, at the low rate of 90 cents per bushel, will give him $675 cash, out of which to pay his second payment on the land, $50.40, leaving the proceeds of his first summer's crop of barley, rye, broom-corn, etc., to support him until he realizes on his wheat. This support may or may not be meagre, but whatever it proves to be it must be made the best of, for the young man starting with say no more than $150 in cash, cannot expect to live upon the fat of the land. He may have to work for others, break land for so much per acre, or perchance spend the greater portion of his winter doing chores, and attending to odds and ends about some more fortunate man's farm. But his own wheat is growing all the time, his own land becoming of more value in the future to him than a mine. If miserably poor and depriving himself ofttimes of the very necessities of life he will enjoy his comfort all the more when earned. He harvests two crops from the same piece of ground within fifteen months, and after his first crop of wheat commences to realize his reward. Each year adds to the number of acres cultivated and to the productiveness of the farm, and the young man would be doing no more than many others before him, if at the expiration of the third year he pays for his land in full and takes a perfectly clear deed to it, securing the cash discount. We have gone thus far upon the supposition that the young man has none to care for but himself. If, on the other hand, he has wife and children, so much the better, if the wife is what the name implies, a helpmeet. If there are no funds in the mutual purse wherewith to build a house, there lies the material to build it without money and without price. Not lumber, nor brick, nor stone, but the warm, solid breast of good old mother earth. A half day's work with a common breaking plow and the sod is ready for the builder's hands. "What, live in a sod house!" exclaims the man whose wife and children have known not a new garment for a year, and whose grocery bills have expired by the statute of limitation—"never!" Yet this same man will poison wife, children and self with the foul air of the low ceiling, illy lighted and reeking walls of a filthy tenement house, beside which a sod house on the broad open prairie is a very palace. We have been in sod houses far preferable in every way to many buildings of wood, brick or stone of much greater pretensions. Cool in summer and warm in winter, as roomy as the builder pleases to make it, a little plastering inside and as much on the outside renders the interior susceptible of all the ornamentation of houses of any material, while that upon the outside may be blocked off in squares, and resemble stone or mastic so closely as to deceive the most experienced eyes. A man of any taste, no matter how crude, and with willing hands, and not absolutely witless, can make for himself a home out of the sod of the prairie that will improve with age and render himself and family so comfortable as not to dream of abandoning it until from the very land once covered by the sod of his

GREAT BEND AND VICINITY.

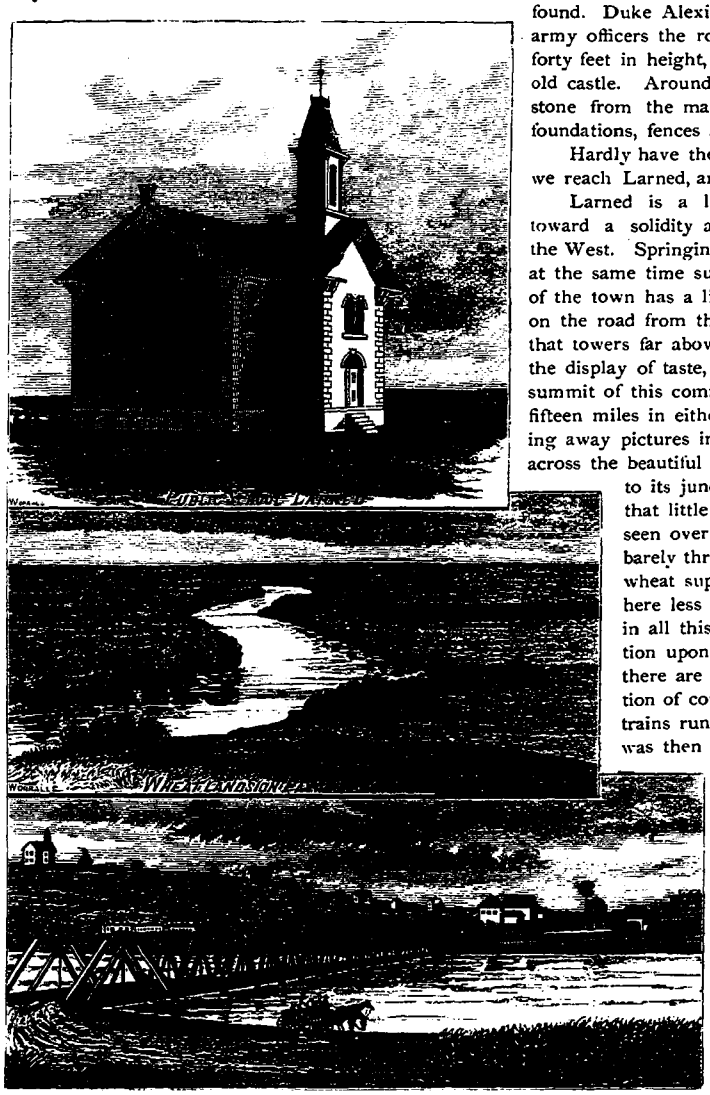
house he takes that which results in the money to build him such a home as his increased means justifies. Some of the least uncomfortable of sod houses are those in the construction of which not a stick of timber enters, the roof being of thatched straw. With the material for his dwelling thus afforded him, with no other cost than the labor necessitated, with no fencing to be done, and long term of years to pay for the land, the young man, with or without wife and children, has no cause to fear his future.

The young man with little means, should he prefer six to eleven years' time on his land, receives the benefit of the twenty per cent discount offered by the company, and with his payments of $106.67 for six years, with interest at seven per cent added, really pays but $4 per acre for the same land costing $5 per acre on the eleven-year plan. For all cash at the time of purchase the discount is thirty-three and a-third per cent, making the land costing $5 per acre under the eleven-year plan and $4 under the six-year plan cost but $3.33 per acre. Thus one can secure his home here almost upon any terms he wishes, paying for it according to his means. To those who may have a notion of coming here to rest, the advice unhesitatingly given is, don't—that is, unless you have plenty of money and contemplate a sojourn in this section for pleasure or health. If for the latter, you cannot in all the country find a more inviting place. The altitude of the Valley ranges from 1,445 feet at Newton to 2,224 feet at Kinsley, an average found to be most beneficial, especially to those who cannot without very serious danger ascend at once to the altitude of the mountains. Of late numbers of invalids en route to Colorado have adopted the plan so generally advised by experienced medical men, of stopping over at various points in the Arkansas Valley, primarily with intent to proceed as soon as recuperated, but in many instances the clear, pure, invigorating air, the even temperature and great preponderance of sunny days have led to the determination not only to go no farther, but to locate in the Valley permanently. The climatic advantages have thus tended to the settlement of not a few men of large means in the various towns, and their, in many cases, really elegant dwellings serve largely in enhancing the attractiveness of these places. Others of this class have gone quite extensively into fancy farming, as Western people term vineyards, orchards of great varieties and expensive grains. Grapes grow in the greatest possible profusion in the Arkansas Valley, and many of the wild varieties rival the most luscious of the hot-house varieties in exquisite flavor. Wild plums are also wonderfully abundant. Kansas has for years, as is well known, ranked among the greatest of all fruit states in the Union, having for seasons in succession been awarded the highest prizes at the American Institute in New York and other noted competing exhibitions throughout the country. The annual apple crop of the state has become so great as to have commanding influence in the markets of the country, Kansas apples being known and ranking with Michigan apples in all leading centers. In the production of grain, of tobacco, cotton, fruit, vegetables,—in fact eveything embraced in the scope of land cultivation,—Kansas ranks as do few, if indeed any, other state, while in the raising or improving of live stock no state has equal advantages of range, grasses, water and climate. The man of wealth, of impaired health himself, or invalid wife or weakly children, finds in the Arkansas Valley not only that most priceless boon, health, but opportunities without end to invest capital, brains and judgment.

From Ellinwood we glide on to Great Bend, the county seat and principal business point of Barton, one of the garden counties of all the West. The town takes its name from what was known, in the days when the Santa Fe trail was the only means of communication between the Missouri and New Mexico, as the big bend of the Arkansas. The pride of the residents is the splendid great Court House that looms up so grandly above the prairie, and certainly it is worthy of their pride, for it is not only a really imposing structure, but was built for just what it cost, or in other words, exactly as a man would build with his own money, with no ring of plunderers to have their division of double prices charged for everything. From the apex of the tower one is as if upon a very ocean of land, the eye finding no resting place even in the horizon, and the mind actually oppressed by the incomprehensible immensity of the situation. While none of us can fathom the future, we are here almost as much at loss to comprehend the past. It seems almost as but yesterday when all this glorious country to the southwest was one vast expanse of nothingness so far as any good came of it, to human kind. Then rank grass tangled the feet of the buffalo, the wolf, the coyote and kindred, and when startled by sight of man, jack rabbit, prairie dog and owl sank on the instant from sight into its wondrously luxuriant depths. Now the broad, beautiful prairie is transformed into diversified divides of grain, the ripe rich heads of which the wind sends in long sweeping billows until they become as very oceans of golden wealth. Turning to the north and letting the

eye roam at will westward to the very boundaries of Rush county, nothing can be more exquisitely perfect in every detail than the picture before us. Winding its serpentine way as far as the vision carries us is the gloriously foliage-fringed Walnut river with its long and gracefully modulated southern slopes, as it follows its easterly course to the Arkansas. To the westward, where the Dry Walnut comes into the Walnut proper, we challenge the world for a finer scope of country than the triangle thus formed by the Walnut and the Arkansas, with the Dry Walnut piercing its centre. Watching the cloud shadows sweeping over the broad plain, and witnessing the going down of the sun in all its beauty, and the stillness of twilight overstretching the happy valley, we cannot but declare with others who have come before us that in diversified scenes, in slopes and wooded streams, in rich and luxuriant foliage and park-like valleys, Barton is the garden county of southwestern Kansas. Six years ago Barton county was not in existence, had no mention of whatever character in the report of 1872 of the State Board of Agriculture, and was wholly given up to the cattle herders. The following year, 1873, Barton had a total of 1,049 acres under cultivation. Four years later, 1877, the aggregate reached 41,929 acres. North of Barton county lies Rush county, isolated from railroad communication, but possessing great bodies of land of unsurpassed excellence. Though hardly known until within the past year, so rapidly has Rush settled up that her acreage for 1877 aggregated 6,472, nearly half of which, or 3,096 acres, was in wheat.

Leaving Great Bend with regret, the next point of interest is the historical — even in this new country there are histories — old tower of stone known as Pawnee Rock, the battle-ground for centuries before settlement in this Valley, of the Indians from the old Indian territory south, and north to what is now known as Nebraska. Here the Indians came with most terrible regularity to intercept the traders en route over the Santa Fe trail for New Mexico. The battles between the opposing forces, the traders always traveling in numbers, and prepared for anything, were ofttimes frightful in extent of bloodshed, and not infrequently resulted in one party or the other being completely annihilated. In those days the Santa Fe trail was looked upon as as near to an air line as wood and water could make it, and in the construction of the Atchison, Topeka and Santa Fe, the road first crossed the old trail at Burlingame within twenty or thirty miles of Topeka. Thence the trail ran northwestward to Council Grove, and then due west to Sterling, where the Santa Fe road again crossed it and followed it closely to Ellinwood, where a junction between the old and the new was made and continued to the river bank beyond Fort Dodge, passing Pawnee Rock on the way. The old rock looms up high over its surroundings, an ancient landmark bearing upon its abrupt face thousands of deeply-graven names, dating back to the earliest days of the Santa Fe trail. In those times a pleasant rivalry existed among young army officers ordered to duty on the plains to cut names in deeper and higher than those already upon the rock, and Pawnee Rock became the goal for the time being of the young soldier's ambition. Upon the rock are still plainly discernible the names now of great historical interest,— Robert E. Lee and Albert Sidney Johnson, placed there by the hands of each when fresh from West Point. Many great scientists of latter days have sunk their names deep into the rocky face, while hardly the name of any noted frontiersman ever visiting these parts is not to be found. Duke Alexis cut with his own hands his name, while of old and distinguished army officers the roster is almost complete. The rock now stands some thirty to forty feet in height, but formerly attained double this height, and much resembled an old castle. Around and about it the land teems with richness, and great boulders of stone from the main rock have been sundered from it and broken into material for foundations, fences and the like.



LARNED AND VICINITY.

Hardly have the thoughts of the past obtained full possession of the mind before we reach Larned, and the present crowds the past back into its graveyard.

Larned is a little giant of a town in the powerful strides it has made toward a solidity and importance rivaling very many of the oldest points in all the West. Springing up out of the prairie as if by magic, its spirited, energetic, and at the same time substantial manner of progress is indicated in everything. The site of the town has a little character of its own, and is in strong contrast to most points on the road from the fact of being backed up by a long, sloping, symmetrical hill that towers far above the business streets and affords most charming opportunities for the display of taste, if not indeed elegance, in the building of residences. From the summit of this commanding elevation the Arkansas river is plainly visible for fully fifteen miles in either direction. The sight is grand, and few witness it without carrying away pictures in memory which remain distinct for many a year. Looking out across the beautiful valley of Ash Creek from its source as far as the eye can reach to its junction with the Arkansas, it is difficult, almost impossible, to believe that little over three years ago not a house, if indeed a man, could have been seen over all this now widely-diversified territory. Had any one predicted barely three years ago the present status of this portion of the Valley as a wheat supply, he would have been laughed at, and the hunter who came here less than four years ago as the best centre for buffalo and antelope in all this part of the Southwest, would have shot him without compunction upon the score that this was no place for such arrant fools. Doubtless there are those reading these lines who will readily remember all this section of country as they first saw it from the car windows of the "mixed" trains run upon the Santa Fe road following its construction over what was then deemed but a monstrously long bridge, so unproductive was this end of the Valley in anything approaching business. Indeed, very few capitalists would have undertaken the laying of a single rail, let alone two, for ten acres, where the Santa Fe received but one in the way of land grant. The entire magnificent expanse of country hereabout was looked upon as fit only for buffalo, antelope and their kind, and an officer at Fort Larned who would have attempted the cultivation of the most insignificant of the products now grown so successfully in the extensive gardens about the post, would have been eyed with suspicion and promptly reported for medical examination. So much for the absurd fallacy that because of distance away from old-time farming sections, land is less rich and susceptible of tilling to a profit. Another and equally absurd notion as to the state of society in the new West is being rapidly, if it is not in fact already wholly, done away with. At least ninety per cent of the purchasers of rail-

KINSLEY AND VICINITY.

road land are actual settlers, not speculators, and coming as these people do very largely from the oldest and most cultivated farming centres of the country, it is sheerest nonsense to believe that with their coming west they are transformed into little less than brutes in taste and cultivated instincts. The very absence in an entirely new country of such as they had been habituated to in their old homes renders the desire to again enjoy the privileges and blessings of church, school and library all the more intense, and leads to their completion without thought of delay. As a consequence the establishment of churches of all denominations follows as naturally as the construction of schoolhouses that in all modern conveniences, in ventilation and general solidity put to shame those as a rule to be seen in very many of the oldest towns and cities in the country. The character of the churches, schoolhouses, libraries, and in fact all buildings denoting public as well as private enterprise in the towns throughout the Arkansas Valley prove beyond all question the class of people who have made up and composed the wonderful flow of emigration into the Valley the past five years. Of the family of sons in over-crowded communities, the one who resolves to strike out for himself in the new West is invariably the one of all others of grit, energy, and a will that falters not at obstacles, no matter of whatsoever character. He will have as soon as possible such cultivated surroundings as he was familiarized with at home, and if his house be at first only one of sod, the surroundings will show the cultivation bred in the very bone. West of the little baby-town of Oferlee we saw a piano in a sod house, and upon a sod floor, while the character of the music in the music-stand denoted an education thoroughly up in the classic as well as the popular music of the day.

Larned has undoubtedly a future such as few new places can boast of, being the key to so wide and bountiful a territory that its possibilities are absolutely beyond estimating. The Government Land Office, notations of the transactions of which have hitherto been made, is located here, and Fort Larned, one of the prettiest and most romantically situated of all government posts, but seven miles west. It is an exceedingly pleasant drive to the fort, and the officer in command, as well as his subordinates, receives all visitors with that free, openhearted and generous hospitality for which our American army officers are proverbial the land over. Pawnee Fork, the parent stream, as the name implies, of the Pawnee, and also of the Buckner and Saw Logs, the main streams with their numerous smaller tributaries surging like veins throughout the county, runs through the grounds of the government at the post, and lovers of the picturesque cannot but go into raptures over the charming situation of the bridge leading to the fort. The banks of Pawnee Fork are quite high, and so densely studded with trees locking their richly-foliaged branches in archlike embrace overhead that the deep-running crystal stream is almost darkened out of sight, and save only from the dazzling sheen where the sun shoots its bright rays upon the waters its existence would be almost doubted. Immediately adjacent to the government reserve there is a fine large body of land still unbroken by plow or spade. South of the river, which at Larned is spanned by a most substantial bridge, a New York colony has but recently located, the country around and about having been originally settled by a colony of the best class of farmers from Illinois. Subsequently quite a colony came in from Iowa, principally from Lee county, and now the few New Yorkers who had already secured their homes are reinforced by many friends from their own state.

Until within the past year there was not a solitary farm south of the Arkansas in Pawnee county. A range of low sand hills, varying in depth from one to three miles, was looked upon as an insurmountable barrier and led to the wholesale condemnation in the minds of the majority of all the land back of them. But finally one and another quietly commenced operations on that side of the river, and now no more beautiful country to look upon, or more prolific land in production, can be found in all the West. The sand hills that but a few years ago presented faces as bare as a baby's are now covered with vegetation growing so rank and green as to leave no doubt of a depth and wealth of soil far as yet from being properly appreciated. One or two venturesome parties have, however, of late gone into the very heart of the hills and raised not only corn, but wheat as well. The entire region of these hills is astonishingly fertile in wild fruits, plums and grapes growing in such lavish abundance as to waste half their sweetness upon the desert air. Back from the hills in Pawnee county there are now fully a thousand people, several of whom have paid for their farms from a single season's crops.

The first farm was laid off in Pawnee county in 1874, and that year the county had a total of 18,047 acres, an increase in three years of 16,588 acres, or upward of 800 per cent. The character of the country in Pawnee cannot fail to awaken enthusiasm in the breast of the veriest dullard. Drained perfectly from one end to the other, the rises are as gentle as the falls are even and regular, while the thickly-sodded buffalo grass, that sure indication of deepest and richest soil, suggests one vast carpeted hall of nature.

Distant thirty miles from Larned and near the eastern line of Hodgeman county, watered by the same splendid system of streams, rendering the soil of Pawnee so fertile, is Brown's Grove, a recently established little town, its originators a thrifty and enterprising set of young men, and the object the occupying of the beautiful country immediately adjacent. It was, as one of them enthusiastically declared, so beautiful, that though they did not intend stopping there, they simply couldn't help it. Hodgeman is merely a county in name, having no organization as such, and until within a very short time little else than a wilderness, so far as human habitation was concerned. There are immense bodies of most inviting and beautifully located farming lands in the county, and such as is not government land is included in the railroad land grant, the one to be had for about as much per acre as the other. It cannot but rise in value very rapidly from the tide of immigration destined to pour in during the early spring. As yet, however, owing to its sparsely settled character, the ruling rates per acre are very low. Just north of Spearville, in Hodgeman county, a large body of land has been taken up by parties going into sheep raising, their ranch being upon the Saw Log. North of them a few miles is the most remarkable abnormal thing on the prairies, a huge range of limestone cliffs, averaging fully a hundred and fifty feet in height, with face almost absolutely perpendicular. It is known as Gorham Point, and is looked upon by the sheep men as a natural shelter for stock that money could not command.

Beyond Larned on the line of the railroad is Garfield, so named from the fact of its being largely settled by people from General Garfield's old Congressional District in Ohio. The surrounding country is similar in all respects to that tributary to Larned, and equally valuable land can here be secured very much nearer the town site than at Larned at much less rate per acre; Garfield being a new station but recently established. The same is true of Nettleton, the next station, which has sprung up within a year, nearly, if not quite all the buildings as yet standing having been shipped direct from Illinois. A few miles west of Nettleton is Kinsley, now one of the most important points in the west end of the Valley, and upon the site of which barely three years ago was nothing but an eating station, and the principal meats of its tables buffalo and antelope. All the country around and about was unbroken prairie, dotted here and there with monster herds of cattle, while now and then great numbers of buffalo would dash in upon the scene and render things exciting to those unaccustomed to such breaks in the monotony of life. Though in all the country from Maine to the Pacific Coast there are no more perfect sweeps of rich and wholly unobstructed land, no grander slopes, no more thoroughly drained valleys than here in Edwards county, still the prevailing opinion appeared to be that it would not pay to farm in this end of the Valley. In the first place it was declared to be too dry, then it was claimed to be too far west, and so on to the end of the chapter. At first the awakening to a fitting sense of the situation was slow, some two hundred acres of wheat being sown in 1875, but though done in the half-hearted way ever characteristic of an experiment, and very few fields worked up to that degree of excellence incident to perfect confidence in the undertaking, the average yield of the good, bad and indifferent was fifteen bushels to the acre. Certainly anything but discouraging results when considering that the crop was entirely from the sod. In 1876 the total acreage under cultivation was increased to 1,642. In 1877 business was commenced in earnest. In the meantime the influx of thoroughly experienced farmers was remarkably large, colonies coming in from Massachusetts, East Pennsylvania, Maryland and from the Western States generally, the county springing into prominence as no other county since the first plow entered Kansas. The statistics of the acreage of the county for 1877, as taken from the official report, aggregated 3,752 acres, an increase of 2,110 acres in a year, and this too in a county on the extreme southwestern limit of grain cultivation. The yield of wheat, as shown by the supplementary report of the State Board, averaged 20 bushels to the acre; rye, 22 bushels; corn, 30 bushels; barley, 30 bushels; and oats, 40 bushels; two-thirds of the year's crop being made from entirely new ground—the first turning of the sod. Pawnee and Barton counties, east of Edwards, each averaged 20 bushels of wheat to the acre, while the little about Spearville, the baby town in Ford county, next west of Edwards, also averaged 20 bushels, and Rush county, immediately adjacent to Edwards county on the north, likewise had the average of 20 bushels. If this fails in proving to the satisfaction of the most exacting that the west end of the Arkansas Valley is destined to become the great wheat belt of all the West, it could further be shown that these five counties, three of them the newest in the state, and one of them hardly organized a year, show greater average to the acre than any ten counties immediately adjoining each other, and nearly eight more bushels to the acre than the average of the state as a whole.

Edwards county was first settled by a Massachusetts colony, almost immediately followed by others from New England, East Pennsylvania and Maryland. It is the county selected by the committee of the Baltimore and Philadelphia colonies, of which so much has been said in the eastern press. Quite recently one of the largest colonies ever made up in the United States, that at Cincinnati, decided upon locating just south of the road between Offerle and Spearville, and not only decided, but made first payment on no less than fifteen sections, or 10,000 acres in the aggregate.

Next west of Kinsley is Offerle, established by an enterprising and well-to-do colony of German farmers from Illinois, and through them the introduction of a population largely German. The fame of the place has already extended beyond the ocean, and a large colony in Saxony is preparing to come over and settle here during the early spring. Another colony destined for this immediate point is forming in St. Louis, and quite a number of those composing it are already here and at work. In addition to these, this has become the chosen location for a large and substantial colony from southwestern New York and northern Pennsylvania.

Offerle is a one-year-old, but the next station we reach is a baby, Spearville, as it is called, being in the very earliest stage of existence and the frontier settlement, agriculturally speaking, of southwestern Kansas. It is in Ford county and the very heart of an inexhaustible expanse of richest lands. What its future may prove can only be judged by the progress of those behind it.

WHEAT RAISING.

At no other period of our country's existence has so great an anxiety prevailed among men of money to discover investments of even a reasonably safe character as now. It is the conviction of the ablest thinkers in the land that relief must come through an increase of the natural, not the manufactured production of the country, and President Hayes in his last message to Congress fully coincides with such conviction in declaring that we must turn to the agricultural industry of the Union, "the most important of all our resources," for the revival of the depressed industries of the country. Wheat, as all know, is the most important result and outcome of the agricultural industry of the country, and this the case, its source of supply is one of the most important questions of the day. We have already shown the tremendous strides Kansas has made of late years in becoming one of the greatest of all states in the Union in production, not only to the acre but in the aggregate as well. Seventeenth in the list of states in the production of wheat in 1872, eighth in 1876, and at least seventh in 1877, though, as the Report for that year is hardly commenced as yet, there are no official data to go by. Kansas will go to the fourth place in 1878, indeed it is not altogether improbable that she will rank third. The State Board of Agriculture has recently issued a supplementary report of the acreage of winter wheat in the ground November 1, 1877, and though incomplete, so far as including all the counties of the state, is still so replete with detail as to show the amazingly great increase of wheat acreage for 1878 as over 1877 of forty-seven per cent, with strong probability when the returns are all in of the increase reaching fifty per cent. A jump in a single year of from 857,125 acres to upward of 1,250,000 acres, or in actual figures, 1,243,515 acres, and several counties yet to be heard from. When completed it is hazarding nothing to predict that the total winter wheat acreage of the state will reach nearly, if not quite, 1,500,000. So great was the success in 1877 with spring wheat, that there can be no question of its rate of increase equaling that on winter

wheat, and in fact it will doubtless be greater, owing to the thousands of new people that have settled in the state within the past few months, and too late to get in winter wheat. All things considered, spring wheat can hardly show less increase than sixty per cent, which would aggregate 124,120 acres, or an entire acreage of 330,988, making the aggregate wheat acreage of the state for 1878 upward of 1,800,000 acres, as against a trifle over 1,000,000 acres in 1877. The condition of winter wheat in ground is reported by the State Board of Agriculture as thirty per cent above a fair average, a condition as remarkable as is the breadth sown. So favorable a fall and winter as that of 1877–78 was never known in Kansas, if indeed in any state in the Union. It appears almost impossible to imagine anything that could affect the crop now, and if an average of twenty bushels to the acre is reached, the aggregate of production will exceed 36,000,000 bushels, the greatest total yield ever known in a single state in the Union. If the yield per acre reaches only the average of 15 bushels, the aggregate crop will equal the greatest aggregate ever known in any one state, with the single exception of California's great crop of 30,000,000 bushels in 1876.

Here are developments, results that none can but pause to consider when the question comes before them as regards the single item of wheat supply. With wheat produced in Kansas cheaper than any state in the Union, with a steady average per acre greater by far than in almost any state where one acre cannot be bought for what would buy all the way from fifteen to twenty-five acres in Kansas, and with an average market rate per bushel, when taking into consideration the value of land and cost of production, far in excess of most states, what better, surer and safer investment can be made than in wheat raising in Kansas. Where will money command such remuncrative returns on such slight risks? It is not necessary for the capitalist embarking in such enterprise to live on the land, or for that matter within a thousand miles of it; he need not own even a spade, hoe or rake, has no necessity for house, barn or shed; simply farms by contract, leaving those with whom he contracts to do his work to furnish everything. The capitalist having his money at command, visits the state, selects his section of land, 640 acres, or more as he chooses, contracts for the breaking, pulverizing, seeding, cutting, stacking, threshing and delivery at the nearest railroad station. He knows the exact cost of the land, the work done upon it, and that so many bushels per acre over the cost per acre of everything are clear profit. As he is going into wheat, he quite naturally seeks such locality as is best adapted to its cultivation, and how more effectually demonstrate this than by careful examination of the results in wheat reached by others? In other words, he finds the wheat belt of Kansas through the unquestioned evidence of the official reports of the State Board of Agriculture. This testimony, as adduced in the latest supplementary report of the wheat acreage of the state, is decidedly of the most emphatic character, for the six counties showing the greatest increase of acreage over the previous year are in a single cluster in southwestern Kansas, all six adjoining, three of them in the Arkansas Valley, two directly on the Arkansas river, and the other upon a tributary to the Arkansas. The increase of these six counties, three of which, as heretofore stated, are in the new Valley of the Arkansas, is 169,889 acres, and adding to this the increase in the remaining six counties of the Arkansas Valley,—all of them in the newest portion of the Valley—58,505, we have an aggregate increase in the southwest of 228,394 acres, leaving but 157,996 of the total increase of 386,390, as the share of all the remaining 58 counties in Kansas. All this great body of wheat as shown in southwestern Kansas lies in counties immediately adjoining each other, and forms the grandest wheat belt on the continent. Five counties of the state show a decreased acreage. The greatest increase in any one county is in Cowley, on the Arkansas river, southwestern Kansas, 37,966 acres, and the greatest decrease is in Dickenson, on the Kansas river, western Kansas, 6,304 acres. The aggregate of the year's acreage of wheat in the ground in the twelve counties of the southwest shows even more amazingly their commanding position as constituting the great wheat section of the West, it being within 124,173 acres of the half of all the wheat sown in the entire state. Cowley county has the greatest acreage in the state, and McPherson second by a little over 300 acres less than Cowley, the one having 88,587 acres, and the other 88,266 acres. McPherson was the only county in the state in 1877 reaching a total yield of a million and more bushels of wheat, and in value of all crops as a whole led every county in Kansas. Yet this banner county in aggregate of yield in the Arkansas Valley only five years ago had but 125 acres in wheat, and all told but 3,615 acres under cultivation. McPherson county is only the forerunner of the fame as a wheat section the whole Arkansas Valley is destined to win in the very near future. As we have already shown, the average per acre in the five farthest west counties in 1877 was twenty bushels, which was a greater average than the eastern counties of the Valley could show, being three bushels better than McPherson, and five bushels greater than the general average of the four eastern counties. Of the increase of the wheat acreage of the state as a whole, the Arkansas Valley has more than a third, and while of the total acreage of wheat in 1877, the Arkansas Valley had nearly a fourth, of the total acreage of 1878 the Valley has nearly a third. Harvey county with no wheat in 1872 now has 36,480 acres; Sedgwick with 26 acres in 1872 now has 73,681; McPherson county with 125 acres in 1872 now has 88,266 acres; Reno county with 2 acres in 1872 now has 52,972 acres; Rice county with 10 acres in 1872 now has 42,189 acres; Barton county with 18 acres in 1873 now has 37,602 acres; Pawnee county with 33 acres in 1874 now has 18,968 acres; Edwards county with 206 acres in 1875 now has 3,112 acres, and Rush county with 417 acres in 1875 now has 5,420 acres, a grand total of wheat acreage in the Arkansas Valley for 1878 of 358,690 to 163 acres in 1872, and the spring wheat acreage of 1878 not mentioned. The acreage of spring wheat in the Valley in 1877 was 9,809, and adding an increase of 60 per cent for 1878, we have a total acreage of 15,694, and a grand aggregate of wheat acreage of 374,384 in 1878 to 163 acres in 1872.

In addition to the extraordinary fertility of the soil in the west end of the Valley, the high average yield per acre in all that section, the marked facilities and unequivocal success in wheat demonstrated by those who, in the remarkably large increase of acreage, have shown their faith in its continuance by their deeds, large bodies of land can be had in uninterrupted tracts and at prices ruling, for cash, very low. The advantages of having the money actually in hand when commencing operations are many, for in addition to securing the thirty-three and a third per cent discount made by the Santa Fe company for cash at the time of purchase, it often happens that one can get a reduction in the ruling rates on breaking and preparing the land for its harvest, by paying in installments as certain stages of the work are reached. With the cash discount a section of land, 640 acres, rating at $6 per acre, is secured for $4 per acre, or $2,560. Many a field of wheat on land in Barton, Pawnee and Edwards counties rating at much less than $6 per acre harvested in 1877 all the way from twenty to thirty bushels to the acre. The price of the land is graduated not so much by quality as location, that near principal towns ranging much higher than some distance away. On the north side the land rules higher than on the south side of the river, owing to the railroad being on the north side. Land no poorer in any respect than that ruling at $10 to $15 per acre near leading points can be had ten miles from town for from $4 to $6 per acre, and in this country where all the roads are like race tracks, so level and hard, a ten miles' drive is a mere bagatelle.

The section of land, an item of $2,560, the next step is to contract for its breaking, harrowing, seeding, in short for everything to its delivery for shipment. Prices for this work vary somewhat. At Sterling the rate given for the work complete per acre is $6.25, at Great Bend $8, at Larned $7.10, and at Kinsley $7.25. About $7.50 is the average price for thoroughly good work, this including the breaking, $2 per acre, preparing the sod for the seed, $1, wheat for seed, $1, drilling, 50 cents, cutting and stacking, $1.50, and threshing and storing, $1.50. With riding plows, from three to four acres are broken in a day, six acres cut, pulverized or harrowed, eight to twelve drilled, and with header thirty acres cut and stacked. It will be noted that at the prices given and the capacity for accomplishing the work, the opportunities for fair reasonable profit are excellent. At $7.50 per acre the cost of production for the 640 acres is $4,100, making the entire outlay $6,660. With every possible precaution taken to insure a good crop, the average yield per acre should be at the least twenty bushels, which at 90 cents per bushel, certainly a fair average rate, would be $10,240, or $3,580 in excess not only of the cost of production, but the cost of the land as well. Putting the average yield per acre at 15 bushels, and the wheat at 80 cents per bushel, the aggregate of receipts would be $6,912, or $252 more than the cost of production and the land, and the latter worth the $2 per acre paid for the breaking more than when first purchased. Allowing say $200 for traveling expenses in visiting the land, as much more for the party on the spot who may have charge of it, interest at 10 per cent for a year on the total investment $660, and taxes $10, the margin of profit remaining is certainly most inviting. The local agents of the land company at Hutchinson, Reno county; Sterling, Rice

county; Great Bend, Barton county; Larned, Pawnee county; Kinsley, Edwards county, and Spearville, Ford county, do a great deal in the way of superintending the work on wheat land for parties residing out of the state, attending to the breaking, harrowing, seeding and other details of the preparatory proceedings. During the winter and growing months generally they keep careful eye over the fields, and at harvest time supervise the cutting, threshing and storing. They are responsible, reliable and thoroughly experienced gentlemen, and any or all of them will take contracts for the production and delivery of the wheat at $8, or thereabouts, per acre. These agents, as well as Col. Johnson, the land commissioner at Topeka, cheerfully respond to all requests by mail for such information as one would naturally desire regarding the country and its capacity, and send at the same time maps showing lands sold and unsold, terms, preëmption law, and in short everything possible to a thorough acquaintance of the land by other than personal inspection. The best plan, however, for those seriously considering the advantages of this country, is pay it a visit in person, and this may be done at a very light expense by purchasing what are known as land-seekers' tickets, at much under the usual rates, the fare from any point in the country, going and returning, being about equal that generally charged one way. Upon purchasing land of the railroad company such fare as has been paid over its line is refunded.

WOOL GROWING.

Southwestern Kansas is preëminently adapted for the raising of sheep, as throughout the entire country on either side of the Santa Fe road east of the cattle quarantine at Dodge City, the range is practically unlimited. In this fact alone lies one of the greatest advantages possessed by the Arkansas Valley over Colorado, the claim of the cattle men of the latter state of priority of the occupation of the range causing no little ill feeling between those engaged in the two interests. While certain portions of Colorado and New Mexico are already practically closed against sheep raising, it is thought by many who have considered the matter seriously, that it is but a question of time when the sheep range of Colorado will be confined to such exceedingly narrow limits as to render the herding of large flocks anything but profitable. It will well repay those impressed with the advantages of wool growing in this section to write to the Land Commissioner of the Santa Fe road at Topeka, who in response will at once forward a pamphlet devoted to sheep interests, maps showing the grant of the company, the lands sold and unsold, and much other valuable information not only as to railroad lands but government lands as well.

The securing of a pleasant home with a well-tilled farm about it in the beautiful Valley of the Arkansas in southwestern Kansas, with full and profitable control of an unlimited sheep range, has great attractions for those who in the older states keenly appreciate the advantages and pleasures of such a life, and while greatly desiring to enter upon wool growing extensively have only such facilities as enable the gratification of this desire upon a small scale. In the Arkansas Valley a thousand sheep wintered at home may early in the spring be sent out upon an unlimited range, and, cared for by experienced herders, return late in the fall, old and young in perfect condition, the only expense of the spring, long summer and protracted fall being the pay of the herders, any number of whom can be had at the rate of $10 to $15 per month. But the sheep men who make wool growing their sole business, and to whom all other pursuits are secondary, are rarely if ever content with less than a range entirely under their control, and this class find in the Valley inducements not equaled, or in fact approached, on the continent. There are millions of acres of government land, the finest for sheep raising in the gift of the nation, to be had in southwestern Kansas merely for the preëmption fees, while the thousands of acres of railroad land are to be had at prices hardly averaging $2.50 per acre. Millet and rye are two of the surest crops in the section of country referred to, while timothy, alfalfa and tame grasses are grown with the greatest facility. When permanently located one may readily raise corn, rye, millet, clover, any or all, and thus always have feed for stock, while if it be deemed advisable to go into winter wheat, experience has proven that its growth in the spring is greatly enhanced by permitting sheep to range upon it during the winter months. While many of the sheep men in the Valley carry their flocks through winter as well as summer without feeding a pound of grain, it is generally looked upon as a good thing to have it on hand in case of an emergency. The loss from disease in this section is exceedingly light—Mr. Wadsworth, one of the heaviest breeders in these parts, not having lost a single sheep from disease in all his herd of three thousand and more for upward of a year. Mr. Wadsworth says: "In regard to this country as compared with others for sheep raising, I would say I do not see how any one in any of the eastern states can compete with those here in the production of wool; it costing so much to winter stock where there is no winter range, and requiring too much high-priced land to feed upon in summer. As to Colorado, I think the country there overcrowded now with all kinds of stock; and even if such were not the case, it is liable to very hard storms and deep snows, and without hay or grain very heavy losses of stock are often suffered. In addition to this the cattle and sheep men in Colorado are not on the best of terms, and are having trouble regarding the right of range. Another disadvantage is the low price Colorado wool rates in the market; and summing all up, I think this country far preferable to any I know of for the wool business. I am confident that any one can come here with sheep, managing them as they should, and realize fifty per cent on the investment." To prove that it can be done, Mr. Wadsworth declares the following to be a summary of his first year's result: 1,000 ewes, second cross, $3,000; 15 bucks, $150; hay, $75; corrals and sheds—lumber, $300; loss on sheep, $100; shearing and other expenses, $300; one shepherd, $300; total, $4,400. Credit by 800 lambs, $2,000; credit by wool, $1,200; total credit, $3,200. Less expenses, $1,250, net profit upon the investment of $3,000, and aggregate of expenses $1,250—$1,950. The item of $300 for corrals and sheds should really appear as a portion of the investment, being permanent improvement and reducing expenses of subsequent years.

The Hon. Cyrus Frye, postmaster at Larned, gives his expenses upon an original flock of 478 sheep for twenty months, including the $1,075 paid for the sheep, at $1,516; and the returns $2,885.85, a per cent of profit on the investment in twenty months of 90¾, equal to 54.2 per cent per annum. No account is made of sheep killed for family use, averaging two per month during summer and one per month during winter. Only 38 sheep, including those killed for family use, were lost during the entire twenty months.

Mr. Samuel Archer, of Kansas City, the most noted fine-wool breeder in the new west, says of the Arkansas Valley and southwestern Kansas generally, quoting his exact words: "I regard the grasses of central and southwestern Kansas as better than those of Colorado, New Mexico, or any portion on the west side of the plains. The east side of the plains—southwestern Kansas—is undoubtedly the best in every respect; the grasses grow thicker on the ground and grow longer. I am persuaded that alkali is injurious to the wool; in fact, experience with the wool of northern Colorado and northern Kansas has proven this beyond all dispute. The water facilities are much better in southwestern Kansas than in any other section I know of in the west. Another great advantage over northern Kansas and Colorado is the milder winters, fewer storms and lighter winds, thus not calling for so much expense in providing shelter and feed."

CATTLE RAISING.

Passing Spearville, the next point of prominence on the line of the road is Dodge City, the centre of the cattle shipping interests of southwest Kansas, northern Texas and eastern Colorado. Dodge City is on the eastern limit and inside the Texas quarantine grounds, or, as every one hereabout terms it, the cattle dead line. It is for the protection of the native cattle of the state that the legislature defines the boundaries within which

stock fresh from Texas shall remain for a certain period of time; though this, as a matter of course, has no bearing upon the shipment of cattle to the Eastern markets immediately upon arrival at Dodge, it applying entirely to driving and grazing. In this almost limitless expanse of Nature's own domains for supplying beef for the continent the portion of the country restricted by the quarantine line is as a mere garden patch, the cattle man having open to him the entire territory from the line of the Santa Fe in Ford county, south to the Indian Territory, southeast to the Sumner county line, including the incomparable cattle range throughout Barbour, Harper, Kingman and Stafford counties, known as the Medicine Lodge Country. Southwest the territory is unrestricted, not only to the boundaries of Kansas, but as far out upon the great stock plains of Colorado as one cares to go. Throughout this vast and unsurpassed section for cattle herding, grazing and driving the advantages for handling stock are simply beyond computation or detail, and the opportunities for gaining large returns from investments innumerable. Until recently, and during the many years the great cattle drive from Texas has centered in southwestern Kansas, the cattle arriving from that state, or "the drive," as it is so generally called in the West, was, as a whole, shipped East, the cattle being driven in, in fact, for no other purpose. The cattle men who make the drive and subsequent shipment their business visit Texas during the fall and winter months, and, making their purchases of large mixed herds, bring them up to graze in the Arkansas Valley and other regions north and south of the road. If the Eastern markets are in condition to warrant it the cattle are shipped at once, if not they are sent forward from time to time during the few succeeding months, improving of course all the time they may be held on the range. But of late an entirely new feature of the cattle business has been most successfully inaugurated, that of buying small herds, from two or three hundred up to one or two thousand, out of the drive and taking them back into the sheltered and broken country found within fifty to one hundred miles on either side of the road, but more especially south, and there hold and graze them for one or two, or as many years as one may choose.

In these terribly dull times in the East, when it is so exceedingly difficult for young men to get any sort of start in life, the advantages of operating even upon a small scale in this great feeding ground of the nation are all the more strikingly apparent, and already a very considerable number of young men of highest standing in Eastern commercial and social circles are actively engaged here.

The total "drive" from Texas last spring and summer—May 15 to July 15—was 280,000. Of these 100,000 went north to the Union Pacific country, some 60,000 were held in southwestern Kansas and the remainder shipped East. In 1873, in the country south of Great Bend and Dodge City—Great Bend being then the cattle shipping point—to the state line there were not to exceed 10,000 cattle upon the range. In 1874 there were about 25,000, in 1875 about 35,000, in 1876 45,000, and last year, 1877, as hitherto stated, 60,000. In addition to the thousands wintered in southwest Kansas last winter there were some 30,000 in the northern part of the Pan Handle of Texas and tributary to the Santa Fe road.

Of the drive the early cattle are usually in the best shape, because these come from northern Texas and have a shorter drive. They are also a better class of beeves than coast cattle, which are coarser and longer horned. The profit in the business of purchasing either class of cattle with judgment is owing to the little expense from the country, being so peculiarly adapted to stock—such nutritious grasses, plenitude of spring water that never freezes, and no outlay for shelter or feed. The change of climate adds immensely to the condition and value of the cattle, for here they take on fat readily, having no troublesome flies or extremes of heat to annoy and debilitate them. Texas two-year-olds can be grazed and fattened here for one year and sold at three years old for from eighty to one hundred per cent profit. The ruling rates at Dodge City prove this beyond all question, as for instance, Texas two-year-olds sold last summer for $14, and the same beeves wintered and grazed in Kansas until the present year, when they are of course three-year-olds, sell for $24. And now the question naturally arises as to the expense of the year's keeping. There are almost any number of parties with herds of their own upon the range, and it being practically unlimited, the expense of adding to the extent of the herd is simply one of increased help, and as herder's wages per month average about $25, the item is not of very great proportions. It is a common practice for other owners, non-residents or those not caring to devote their time individually to their cattle to place their herds with those of parties attending personally to the stock upon the range, and the ruling rates governing such proceedings are $2 each for yearlings and $2.50 each for cattle two or more years old. Each owner's stock is branded with his own recorded brand, hence there can be no trouble as to proprietorship, and as the owner of the main herd recognizes it as his own best interests to take the best possible care of his stock and the combined herd grazing in common there can be no discrimination, and all in the herd necessarily receive equal attention. Generally three or four owners giving their time to the care of the cattle lay claim by right of occupation to some particular range with running streams of water permeating it, and driving their stock upon it locate their camps or cabins at equidistant points. Twice a day, every morning and afternoon, the entire limits of this range are visited, some one riding in both directions from each habitation, and, meeting at half-way points, retrace their respective routes to starting places, this being called in herdsmen's parlance "riding the range." Thus the range is patroled every day in the year, and the cattle not only prevented from roaming beyond the particular range upon which they are placed to graze, but all outside intrusion guarded against. The percentage of loss by death during the year will not exceed two per cent, and one can figure for himself what his profits would be upon an investment in Texas two-year-olds at $14 per head, paying $2.50 per head for their keeping, allowing two per cent for loss, and selling them at three years old for $24 per head.

The same cattle kept in Texas until three years old would increase in value but very little, the change of climate making a most marked difference in weight and condition. Most of those who have engaged in the business of purchasing cattle and holding them for the year, as indicated, have found it so profitable as to decide upon reinvesting their profits in more extensive operations, and of this class we will take the figures of a gentleman who copied them from his own books, from accounts opened last spring, when he commenced in his enlarged field of investment. His total of expenditure for live stock was $23,075. His expenses at the expiration of the year will be $3,000. At the end of the year, his herd, which cost him $21,600, will be worth $33,750, leaving a net profit for the year of $9,150, or 42 per cent, and this not taking into account the cost of mules, horses, bulls and outfit still on hand. An allowance should, however, be made for loss during the year, which, at 2 per cent for the herd entire, would reach 30 head, worth $450, and which, deducted from the net profit as given, would make it $8,700.

A calculation made upon a basis of two years' keeping brings interesting results. Take, say, 1,000 Texas yearlings bought September 15, at Dodge City, for $8,000; keep them two years, and sell at corresponding date—these three-year-olds, double wintered, which is much better than single wintered, should weigh 925 lbs., and at the very lowest estimate would bring 3 cents per pound, $27.75, at Kansas City. The freight per head from Dodge to Kansas City would be $2; commission for selling, 50 cents; yardage, 20 cents, or a total expense of $2.75, leaving the net receipts per head $25. The loss by death per annum, at 2 per cent, would be 40 head, which deducted from the 1,000 head would leave 960 at $25 per head, $24,000. The next thing to consider would be the expense, which would be $5,000, which, added to the $8,000 paid for the cattle, would make a grand total of investment and expense of $13,000, leaving a clear profit of $11,000, or 44 per cent per annum for the two years' operations requiring but $13,000 in way of capital all told.

Another gentleman, engaged quite extensively in breeding and fattening cattle, hands us a careful balance of the books, which show an aggregate value of $53,280, and aggregate expenses of $24,000, leaving the very comfortable profit of $29,280 on five years' operations, based upon an original capital of less than $10,000. Should one wish to commence upon a smaller capital, say $4,500 to $5000, the figures given by a young New Yorker, who started in last summer, cannot but prove of value, based as they are upon the operations of a gentleman of no previous experience whatever with capital. He invested $3,300 in cattle, $550 for an outfit, and his running expenses, reaching $460, make the aggregate of expenditures the first year $1,000, and his stock being now worth $7,580, the net profit reaches $2,280.

These figures require no extended comment, carrying, as they do, the impress of fact upon their face, and proving most conclusively the preëminence of the cattle business in southwest Kansas as a source of profit, which is rarely, if ever, below 40 per cent upon the investment made. The great demand that has sprung up in England the past year for American beef, the introduction of refrigerator cars, and the limited area of grazing grounds east of the Missouri all tend to farther enhance the value of southwestern Kansas as the great feeding grounds of the continent.

TEOCALLI MOUNTAIN.

IN THE MOUNTAINS.

WITH Fort Lyon on our immediate right and Las Animas but a mile away, we catch between the two points our first glimpse of the mountains, the outlines of the Greenhorn range being plainly discernible, although fully ninety miles distant. On particularly clear days, and when the peaks are snow-capped, with the rich evergreen foliage densely covering the sides of the mountains, the contrast is exquisitely effective; and later in the season, when the range is covered with snow and stands out bold against the soft graded light beyond, one would scarcely believe the distance twenty miles. At times, when the intervening plains are hidden 'neath one of the wondrously deceptive mirages characteristic of this elevation, the mountains appear to double their height, the hoary-headed old peaks extending so far heavenward as to realize one's most enthusiastic dreams of towering grandeur. As we pass on beyond Las Animas, we strain our eyes forward, catching for a moment faint outlines of higher mountains so dark in the blue of the lessening distance as to cause hesitation as to their being real substance or mere formations of rapidly changing clouds. A few moments, and we are satisfied of the fact that the shadowy outlines are stationary, and we realize one fond ambition, that of beholding Pike's Peak, though it may be one hundred miles away. A few miles more and the symmetrical pyramids known as the Spanish Peaks steal out from the clouds entwining their snowy heads, and bid us welcome to the confines of the Spanish range over which they have for unknown centuries stood faithful sentinels. Nearing Pueblo, the southern hills which will soon be mountains shift rapidly their wavy outlines, and the thick forest growth becomes more and more distinct. Stretching far away to the left, perfectly outlined in its characteristic smoky-blue, appears the Greenhorn range. As we approach, the smoky whiteness of the enveloping haze is dissipated and gives place to a more pronounced blue; the billowy hills roll more sharply clear to the eye; the irregular lines of the foliage stand out distinct, and here and there shaggy and wind-

disheveled pines cut the sky-line upon the summit ridge. At Pueblo we have merely reached the foot-stool, as it were, of the greatness, the sublimity and immensity of the rock-ribbed heights of Colorado. Bye and bye, when we shall go from forests of luxuriant splendor to mountains of unutterable bareness and grandeur, from still lake to roaring cataract, from verdure and cultivation into galleries of Nature's strangest fantasies, without the slightest hint of what the next transition may be, then we shall confess that each picture has a hundred phases rivaling each other in beauty and interest, and that all that is exquisitely perfect in mountain scenery, in lake, river and valley scenery, is garnered here.

Our train is now at a standstill at the Union depot, Pueblo, and we leave the cars of the Santa Fe with sincere regret. The entire distance from Kansas City, something over six hundred miles, is one succession of most pleasurable novelties to the eastern man informed as to the progress of the great west only through the medium of others. Certainly nowhere upon the continent are there more elegantly-equipped trains than those upon the Atchison, Topeka & Santa Fe, and running as they do upon a track second to none in the country for smoothness, and through the most charming country in the Southwest, it cannot be otherwise than that the tourist in looking back over the pleasures of his trip should accord the journey over the Santa Fe one of the keenest of all.

With the trains of the Denver & Rio Grande running from Pueblo north to Colorado Springs, Manitou and Denver, south to Trinidad, El Moro and Garland, and west to Cañon City, the tourist has before him so bewildering an array of attractions reached by rail as to be at a loss which to select as the initial centre of his tour.

Those unfortunately compelled by press of business or other causes to confine their tour within the limits of a week or ten days, may run over to Cañon City, spend a day at the Grand Cañon of the Arkansas, return to Pueblo, thence to Colorado Springs, visit the Garden of the Gods, Glen Eyrie and Monument Park, drive over to Manitou, do Ute Pass with its wondrously beautiful falls, ramble among the mineral springs and, if agreeable, make the ascent of Pike's Peak. All this could be done in a week from the time of leaving Pueblo—arrive Pueblo 3 p.m., reach Cañon City 5:30 p.m., take early supper if in summer, and enjoy a two hours' ride up Grape Creek Cañon to the Temple. An early start for the Grand Cañon the following morning, spending the day at the Royal Gorge and about the cañon, returning in time for a mineral bath at the springs near the city. Return second morning to Pueblo, thence to Colorado Springs, reaching there at 4 o'clock p.m., and in time for a delightful drive over the Mesa to the Garden of the Gods, and return for supper. Third morning drive to Monument Park, returning by Glen Eyrie, and after dinner drive with fresh team to Cheyenne Cañon. Fourth morning take carriage to Manitou, spend the time until dinner at the different springs, and if you are a good walker stroll up Williams Cañon, returning to the hotel by Lovers' Walk. After dinner stroll up through Ute Pass and clamber over the mountains at will, the exercise on foot being decidedly pleasurable after going about so much on wheels. The fifth morning mount your pony, make the ascent of Pike's Peak, and sleep that night at an altitude of 14,216 feet above the level of the sea. Return the next (sixth) day to Manitou or Colorado Springs, and leave on the morning of the seventh day for Pueblo, where you make direct connection with the Santa Fe for the East. This rapid transit of a week covers many of the most attractive of the best-known resorts of Colorado, and while by no means satisfactory to those having any admiration and reverence whatever for Nature's most profound creations, still the trip, forced as it is, is far from tiresome. The expense of the tour would be comparatively very light, not aggregating more than $75, and if the party were composed of two or more persons, proportionately lighter, the expense of livery hire shared by all alike. Two days more would enable a trip to Denver and return, or if preferred, the crossing of the Sangre de Cristo range over Veta Pass, on the Denver & Rio Grande Railway. In two weeks one could visit all the points named, and in addition spend a day on the Colorado Central in making the trip through the famous Cañon of Clear Creek. But to really enjoy the mountains one should have a month's time at the least, and as much more as possible to command. Freedom as to time imparts much more enjoyment to the tour of the Rockies than almost any other one feature, for then one can give himself completely up to the delights of the surroundings, seeking new scenes at will, and rambling out of beaten paths for weeks at a time. To most tourists the very wilds of nature afford keenest pleasures, and the absence of steam among the facilities of locomotion, is a novelty of intense enjoyment. The best of recreation and recuperation is attained where familiar scenes are fewest, where the constant succession of newness, so to speak, leaves no room for recollections of the old. In such rest as this the business man's home cares take wings; he is as a boy again, and as a boy grows and develops into strength until as once he assumed the trials and perplexities of maturity, so he returns to them fresh, eager and undaunted.

Our trip having no definite limit, we will proceed to Cañon City first, and making the southern circuit by such stages of progress as best suits our fancy, will gradually work northward, and thus make the tour of the state. The ride upon the Denver & Rio Grande along the banks of the Arkansas is at all seasons of the year an exceedingly pleasurable one, the close proximity of the comparatively low walls of the broad cañon, with their fantastic carvings affording opportunities for inspection that few do not gladly profit by. The principal wall or ledge is upon the right, and is of sandstone crumbling into oddest of forms, and so constantly changing as the train glides swiftly by as to suggest fancies of weirdest character. Now the tiers of rock pile up higher and higher, and for thousands of feet run in bands of different color so clearly defined as to cause many an ejaculation of surprise. A sharp curve and a plunge almost to the very face of the wall gives us a near view of its little grottoes, caves and temples, and then we as swiftly bear away again and get the beautiful effect of the broad band of solid yellow rock just above another band of deep blue, while above on the summit of the cliff dome after dome arises, some startlingly perfect in proportion and outline, others picturesque in decaying projections and tottering spires. Every now and then we catch glimpses of long swelling slopes, grass-carpeted and tree-studded, forming strong contrast to the gnarled and wind-beaten pines torn and twisted by the same elements that for centuries have wrought their ceaseless attrition upon the rocks among which vegetation finds painful growth and weary years of hanging upon the skirts of destruction. From the summit benches and base of the cliff great boulders have torn themselves from the parent rock for the one mad race to the river bed below, and there they lie heaped upon each other in gigantic disorder, the bright, sparkling river dancing in and about them and wearing away their great rough faces until they shine like the pates of so many good old patriarchs. A quick turn to the right and away off in the dim distance shimmers the dreary summit of Pike's Peak flanked on the one side by Cheyenne Mountain, and on the other by Cameron's Cone. As we near Cañon City tall masses of rock rise abruptly like great buttresses, or

A PRAIRIE-DOG TOWN.

GRAPE CREEK AND TEMPLE CANONS.

still more like the massive and forest-grown ruins of mighty rock-structures. Now the scene is simply indescribable in its grandeur and beauty, for upon three sides tower the bald, bold, frowning masses of rock, and beyond mountain lines upon mountain lines until the very heavens appear peopled with snowy heads set against the exquisitely tinted clouds that hang so lovingly above them. Almost in the very centre of this amphitheatre is Cañon City, set as in a frame, and the eminences rise undulating now into cones, now into broad rotundity broken here and there by jagged cliffs and abrupt descents.

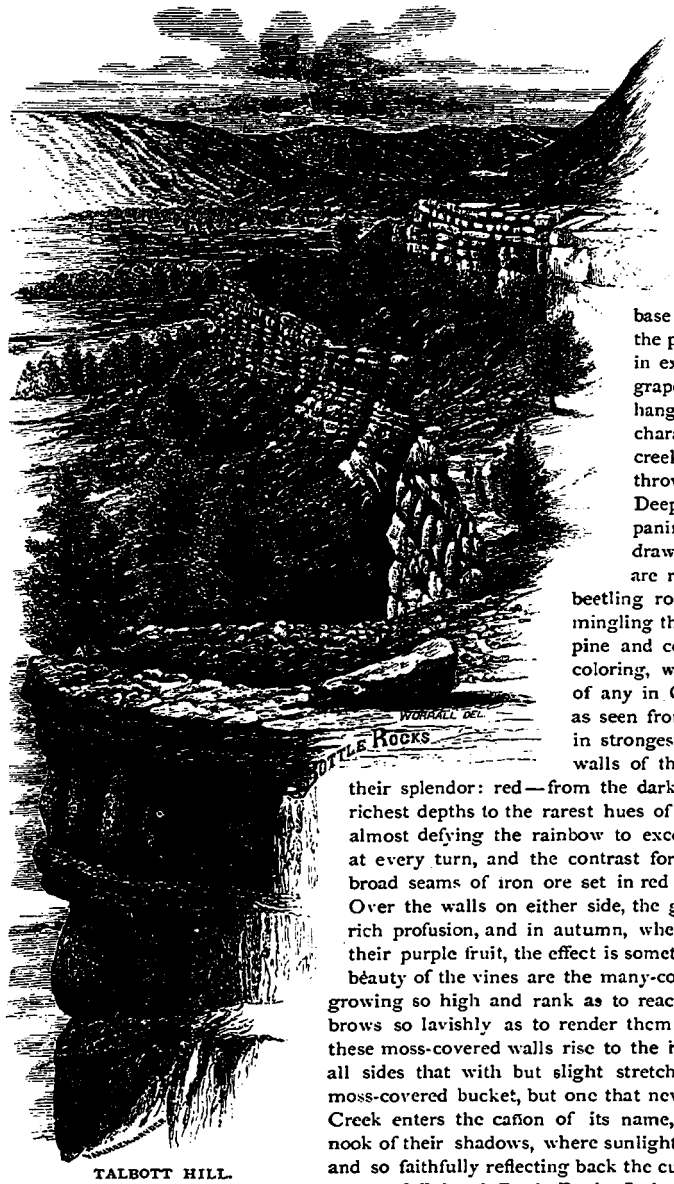
Cañon City is well-named, for from it radiate many of the most remarkable of Colorado's cañons — Grape Creek, by many pronounced the most beautiful, and the Arkansas, unhesitatingly accorded to be the grandest of all. It is a clean and scrupulously neat place, much frequented by tourists and invalids, the centre of the greatest coal region in the state, the location of several important mining interests, and outfitting headquarters for most of the San Juan country as well as of Chalk Creek and California Gulch districts. There are two excellent hotels, the McClure and the Sanderson, both, however, kept by the same parties. The rates for accommodation are from $2 to $3 per day; per week from $8 to $12.50, according to the location of rooms. The Western Union Telegraph Company is located in the McClure House, and from the Sanderson, stages start for Rosita, Fairplay and the San Juan country. Livery rates are quite reasonable, to wit: team and single buggy to Grand Cañon, one horse $5, two horses $6, this being with or without a driver; Temple Cañon, or Curiosity Hill, $2 to $3; Marble Cave, Oil Creek or Oak Creek Cañon, same as to Grand Cañon. Carriage for four by the day $6. For three or more passengers the tariff to the Grand Cañon is $7 to $8 for the party, and for five or more $1.50 to $2 each. The proprietors of the hotel, however, furnish transportation to all desirous of visiting the Grand Cañon at the uniform rate of $2, no matter what the number of the party.

After the two and a half hours' ride from Pueblo and an appetizing supper, the walk of a mile or more in making the circuit of the mineral springs is decidedly pleasant, and we return to the hotel to watch the purple shades of evening gather on the mountain sides long after the cañons and lower hills are wrapped in gloom.

Passing indoors with regret, the question to be settled before retiring is the objective point of the next day's trip. We have decided to remain in Cañon City a week, thus giving us a full day's jaunt in each immediate locality; one day, for instance, at Grand Cañon, thirteen miles, another day in Grape Creek Cañon, nine miles, taking in Temple Cañon, five miles, on the way; another day making the visit to Marble Cave through Oil Creek Cañon, eleven miles; the fourth day returning through Oil Creek Cañon to Talbott Hill, and spending fast-fleeting hours among the bones of the tremendous animals existing millions of years ago; fifth day to the head of Oak Creek Cañon, fifteen miles, returning by Curiosity Hill; sixth day a general ride, with a visit to the great coal mines, and a three or four miles' jaunt through coal veins five to seven feet square.

After some little discussion, it is decided to commence the week's pleasures with a day in Grape Creek Cañon, and ordering the team for seven o'clock sharp, we retire to such slumber as can only be successfully won in this amazingly perfect atmosphere.

Up with the sun, the bright, clear and bracing air acts upon the frame like champagne, and in the grandest of spirits we give rein to the impatient horses and are off at a spanking gait over the hard, smooth and level road. Rattling over the bridge spanning the Arkansas at the city's feet, we speed on through clumps of richly-foliaged trees, and in a few moments we are at the entrance of the cañon, catching a glimpse,



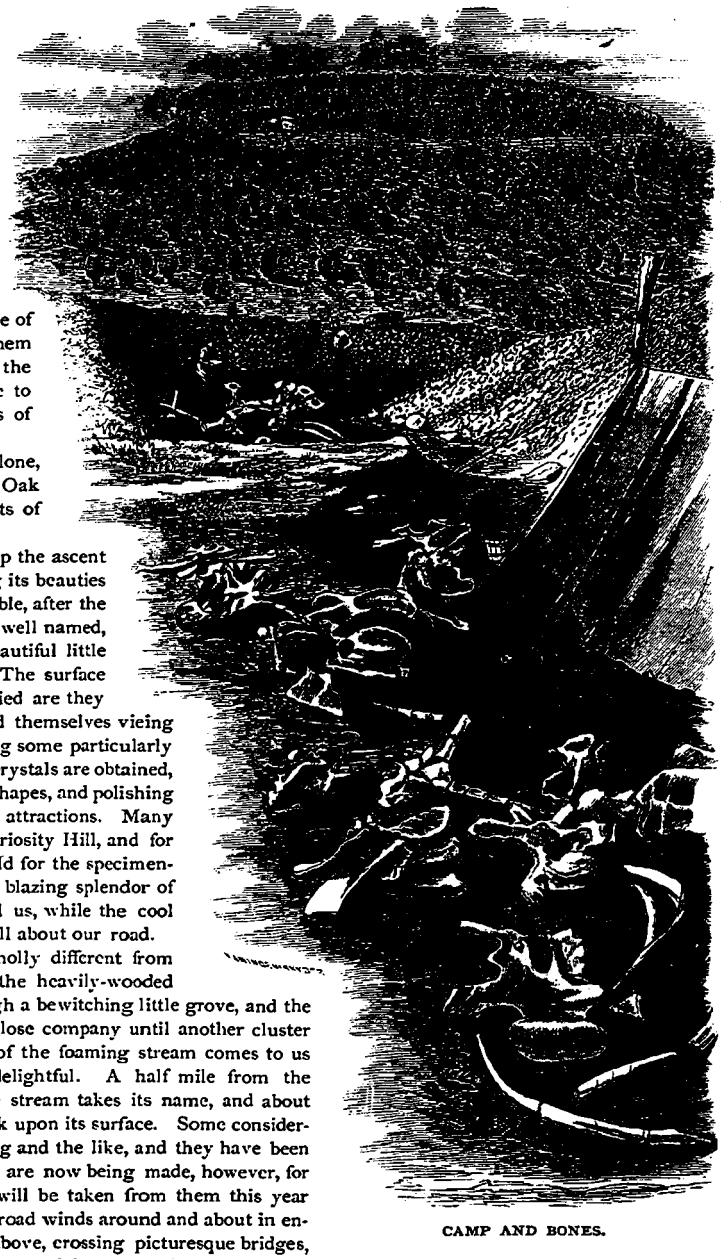
TALBOTT HILL.

just as we enter between its towering walls, of the Grand Cañon of the Arkansas and the cosy-looking bath-houses at the springs near by. A quick word of wonder at the height and the closeness of the walls, a sharp turn of the road, and looking back, the way is lost by which we came. Here in the solitary mountains we are alone. No world behind; no world before. Turn upon turn, and new walls rise up so abruptly before us as to cause an involuntary cry of terror, soon relieved, however, as our excited senses become more familiar with the new tension upon them. Awe still holds us bonden slaves, but the eye drinks in such beauty as fairly intoxicates the soul. On either hand the walls loom up until only the slender opal of a narrow strip of sky forms exquisite contrast with the pine-covered heights. Rifled boulders every now and then wall in the road on the river side, their base washed by the creek, wild and beautiful in its whirl and roar. Here the perpendicular piles of rock are covered with growths of trees that ascend in exact line with the wall and cast their shadows on the road below. Nature's grapevines trail along the ground and cling around the trunks of the trees, hanging like Arcadian curtains and making bowers of the most exquisite character imaginable. Between these we catch bewitching glances of the creek on its merry, tempestuous way to the Arkansas, its sparkling surface throwing back rapid reflections of masses of green foliage and trailing vines. Deep pools give back the blue of the cloudless sky, and as base accompaniments come in the dark shadows of the cañon walls with their sharply drawn ridges and truncated cones. Here and there all along the wild way are rushing cascades, tortuous twists of the stream, gaily lichened or dark beetling rocks, mossy nooks or glowing lawns, and overhead the cottonwoods mingling their rare autumnal splendors of red and gold with the sombre green of pine and cedar. The cañon is beyond question the most beautiful in marvelous coloring, wondrous splendor of foliage, picturesque cascades and winding streams of any in Colorado. The Grand Cañon of the Arkansas is deeper, but it is awful as seen from the only point of view, that from the top, and the sensations caused in strongest of contrast with those experienced in Grape Creek Cañon. The walls of the latter are so gorgeous a variety of colors as to fairly bewilder with their splendor: red—from the darkest tinge of blood to the most delicate shades of pink; green—from the richest depths to the rarest hues of the emerald; blue—from the opal to the deepest sea, variegated until almost defying the rainbow to excel in exquisite blending. These glorious transitions of color meet one at every turn, and the contrast formed every now and then by tremendous walls of bare black rock, or broad seams of iron ore set in red or green, render all the more striking the singular beauty of the cañon. Over the walls on either side, the grapevine, from which the cañon takes its name, climbs in wonderfully rich profusion, and in autumn, when the leaves become so delicately tinted and the vines hang thick with their purple fruit, the effect is something to call to mind but never to describe. Added to the indescribable beauty of the vines are the many-colored mosses which paint the rocks in infinite variety of hue, ofttimes growing so high and rank as to reach to the very pinnacle of the topmost rocks and fringe their craggy brows so lavishly as to render them almost symmetrical in appearance as seen below. At different points these moss-covered walls rise to the height of a thousand feet, and so completely do they hem one in on all sides that with but slight stretch of imagination the place could be viewed from below as a gigantic moss-covered bucket, but one that never "hung in the well." Just above Temple Cañon, and where Grape Creek enters the cañon of its name, the walls are exceedingly high and precipitous, and in the coolest nook of their shadows, where sunlight can never reach, is a quiet, placid pool of water clearer than a crystal, and so faithfully reflecting back the curiously and brilliantly colored rocks overhanging it as to have gained the name of Painted Rock Pool. It is a very gem in itself, and in its setting and the rare grandeur of the surroundings, is well in keeping. Those visiting the cañon should not fail to follow up the course of the creek from the point where it debouches into the cañon. It will have to be done on foot, but the wholly unexpected surprises of the hour-or-two's ramble will more than repay the exertion. The walls of the sides of the parent cañon are fully fifteen hundred feet in height, and so narrow that the tall pines and cottonwoods keep the gorge in a tender half-light, broken at midday by glaring rays that give a magical charm to the scene. On all sides from points in the walls of rock, tufts of grass and bluebells grow, forming with the grapevines most pleasing pictures in contrast with many-tinted rocks in the crevices of which their roots have found nourishment. The walls are of almost as many colors as there are sharp turns in the creek's course, and rare and perfect in beauty is the amphitheatre of black rock with pearly-white veins running in every direction, the whole overhung by climbing vines and their pendant berries. Just at the entrance to Temple Cañon is a little grove of cottonwoods. Their pendant swinging boughs meet in perfect arches overhead, and the profusion of their polished, brilliant leaves renders complete the most charming of bowers in which to take the noonday lunch and prepare for the climb into Temple Cañon, which must be done on foot. Temple is a side cañon, with entrance from Grape Creek Cañon some four and a half miles from Cañon City, and was discovered but a year or two ago. The climb is not steep, though rather rough, especially to effect an entrance into the Temple proper, which is to the right of the little cañon, and can only be accomplished by clambering over several huge boulders which if removed would render the illusion of a temple and stairway all the more striking. Once passing in through the great rifts of rock, for all the world like the stairway to some grand place of amusement, the body of the Temple is reached, and to the tourist's astonishment, before him is a stage with overhanging arch, with "flats" and "flies," with dressing-rooms on either side, and a scene already set as if for some grand tableau. If so intensely realistic from the parquet, as the broad circling floor might aptly be termed, or from the parquet or dress-circles as the higher ledges would suggest, the clamber up to the stage itself renders it all the more so, for there is found ample room for a full dramatic or operatic company to disport upon, while in the perpendicular ledges and caves on either side twenty-five to thirty people might retire and not be observed from the body of the hall. The stage is at the least thirty feet deep, and some sixty to seventy broad; the arch above fully one hundred feet from the floor of the cañon, the stage itself being about forty feet above the floor. The arch is almost as smooth and perfectly proportioned as if fashioned by the hand of man, and during the wet season the water from a stream above falls in a great broad sheet over its face to the floor of the cañon below. At such times the effect from the stage of the Temple is, as can be imagined, exceedingly fascinating, for there, entirely protected from the water, one looks through the

silvery sheen out upon the scene below. Upon the rear wall of the stage quite an aperture has been hewn out by some action, and the shape it is left in is peculiarly suggestive of tableaux preparation. Away up in the very highest crevice under the arch a pair of eagles have mated for years, and though most daring efforts have been made to reach the nest none have succeeded. The coming of visitors is almost invariably the occasion of a flight from the nest, and breaking in so suddenly upon the supernatural stillness of the place is apt to cause a shock to the timid not readily forgotten. There is absolutely not a solitary sign of vegetation about the Temple; all is bleak, bare and towering walls, and a more weird spot to visit cannot possibly be imagined. Coming out from the Temple itself the tourist should by all means clamber up to one of the lofty pinnacles in the adjoining cañon, for the sight from them down upon the mighty masses of rock below, the cottonwoods, the stream in Grape Creek Cañon and the lofty walls beyond is one to be treasured up among the brightest and pleasantest recollections of the tour.

One could spend days in Grape Creek and Temple Cañons alone, but our week demands that we should spend the second day in Oak Creek Cañon, with its wonderful formations of arches, deep tints of evergreens and wealth of wild flowers.

Oak Creek cañon is left with unfeigned regret, and as we toil up the ascent on the return trip cast many glances back to aid memory in fixing its beauties upon the mind. A couple of miles over a road the tamest imaginable, after the three miles of down grade, brings us to the base of Curiosity Hill, well named, as is speedily proven by the discovery of all sorts of odd and beautiful little specimens of ribbon moss and linear agate crystals and the like. The surface of the hill is one vast field of curiosities, and so plentiful and varied are they that even those usually wholly indifferent to such things soon find themselves vieing with the most enthusiastic in exclamations of delight upon finding some particularly attractive specimen. By blasting, large bodies of the most perfect crystals are obtained, invariably bedded in ribbon agate of the most beautiful colors and shapes, and polishing readily, they form beyond all comparison the loveliest of cabinet attractions. Many very valuable specimens of blood agate have been found on Curiosity Hill, and for agates of all hues and forms it is possibly the most satisfactory field for the specimen-seeker in southern Colorado. Trotting homeward we watch the blazing splendor of the sunset upon the lofty heads of the rocky monarchs around us, while the cool twilight of the open park between us and Cañon City envelops all about our road.



CAMP AND BONES.

Next morning we are off for Oil Creek Cañon, which is wholly different from others seen thus far. The windings of the road in following the heavily-wooded stream are decidedly of a romantic character, running now through a bewitching little grove, and the next moment joining with the merry waters and keeping them close company until another cluster of aspens or firs causes a separation of sight only, for the music of the foaming stream comes to us through the leaves, and rendering the meeting all the more delightful. A half mile from the mouth of the cañon we come upon the oil wells from which the stream takes its name, and about which its perfect purity is polluted by the petroleum that lies thick upon its surface. Some considerable surface work has been done at the wells in the way of tubing and the like, and they have been yielding more or less oil for the past fifteen years. Preparations are now being made, however, for boring for flowing wells, and the probabilities are that more oil will be taken from them this year than ever before since the first discovery. Beyond the wells the road winds around and about in enticing proximity to the stream, and then leaving it, winds high above, crossing picturesque bridges, and finally emerges into the open known as Oil Creek Park, hemmed in on all sides by ranges of sandstone that show a countless succession of rock sculptures, the effect heightened by the brilliancy and variety of the coloring. High up on the ridges are the crumbling ruins of castellated battlements, formidable bastions suggestive of frowning guns, lofty and imposing sally ports, portcullis, moats and drawbridges. Great cliffs have fallen, and avalanches of rock have plunged their way down the hillsides; yet here and there and everywhere upon the walls stand the grim battlements as if defying wind, storm and time. Of the most imposing of these tremendous ruins are the Twin Forts, standing upon the very verge of a precipitous wall of 500 feet of alternate layers of creamy yellow and brilliant red. One looms up a hundred feet or more above the wall, but the other is sadly battered and rapidly crumbling away. Along the wall are numberless towers of rock worn by the action of the elements into fantastic shapes, and many of them looking as if the breath of a child would topple them over. Progressing on through the park we fancy in each transformation of rock some familiar thing, while the mighty tiers extending toward us ofttimes call vividly to mind the bulwarks of great ships of the sea stranded here to be worn away to dust. Directly ahead of us as we near the centre of the park we catch full glimpse of new and singular rock sculpture, the entire south end of the park showing tier upon tier of rock so striking in resemblance to stockades and outlying fortifications as to cause one to involuntarily seek not only for the colors but the soldiers defending them. Back of the stockades, stern, dark and cold, rises Signal Mountain, and still back of it the long wave-like lines and great snowy domes of the Sangre de Cristo range, their stupendous proportions dwarfing all below into littleness.

The road, as it nears the head of the park abruptly dashes into a thickly grown grove of pinion trees. We halt for a moment to get a full view of the largest pinion tree in Colorado, and probably in the country, and after entertaining something of a contempt for the scraggy little trunk of the average pinion tree, it is quite refreshing to behold one fully three feet in diameter, though all the more uncouth and ugly for its unwonted circumference. The pinions bear extraordinary quantities of sweetest little nuts, but outside of this they are of no possible worth. Around the sharpest and steepest of curves, a dash across the madly-surging stream, and a helter-skelter scramble up a low but exceedingly rocky ascent and we are at the mouth of Marble Cave, so near in fact as to barely escape falling into it in looking for it. The ragged, jagged crevice by which the cave is entered is anything but enticing, and the sensation experienced as one's head is all there is left above ground is far from the pleasantest.

The descent is almost perpendicular for a hundred feet or more, and the staircase formed by the broken ledges on either side of the chasm far from soothing to one's nerves, especially as all the light obtained are the meagre shadows which steal through the three-cornered opening above and struggle faintly half way to the bottom of the rift of rocks. Stumbling over unseen boulders, and barely escaping serious contact with the encompassing walls, we grope to the point where our guide has kindled a fire, and find it the intersection of the two main halls of the cave. The ghastly flare thrown upon the walls by the burning pine chills us to the bone, and a tremulous inspection of the situation adds no warmth. We are in a strange and awful rift in some buried mountain, the walls so narrow that our elbows touch on either side, and so weird and terrific in height, as seen through the heavily-rolling smoke, as to look ten times the hundred and fifty feet our guide informs us is the distance to the roof. The pine burns brighter, the smoke grows thicker, but we press on, now crawling on all-fours into some wondrous chamber of stalactite and stalagmite, and anon tugging up a strand of rope over frightful boulders that have fallen from the dizzy height above to obstruct man in learning the secrets of this awful convulsion of nature. We penetrate into Satan's Bower, we look shudderingly into his Punch Bowl, and gasp as we throw ourselves into his Arm Chair. We draw longest of breaths in Queen's Grotto, and the shortest when thoughts of the way back over those fearful rocks crowd in and demand consideration. Certainly the clear blue sky never was half so lovely as when we finally stand under it again. The cave is, as its name implies, encompassed by marble walls, and the specimens of marble brought from its innermost recesses, as seen in the full glare of the sun, are exceedingly beautiful in their mottled surface of red and white. The marble is susceptible of the highest and richest polish, and parties in Cañon City use it for artistic as well as practical purposes. All about the hill, from the low crest of which the cave is entered, are the finest specimens of jasper, agate and shell rock, and not far distant are immense trees petrified to solid rock, and where broken often showing beautiful veins of agate and crystals. On the return trip we take more notice of the cosy and comfortable farm-houses scattered throughout the Park, and become much interested in the details of the yield of grain—principally wheat—secured through the system of irrigation practiced so extensively in the state; in fact, no grain whatever can be successfully cultivated in Colorado without irrigation. Midway in the Park we pull up at the pleasant home of the gentleman who is to show us to the top of Talbott Hill, where Prof. Marsh, of Yale College, and Prof. Cope, of the Academy of Natural Sciences, Philadelphia, have parties at work exhuming the recently-discovered bones of animals, compared to which in proportions and importance the mastodon sinks to insignificance. We at once leave the road and make direct for the wall of blood-red rock on the west side of the Park, and a short drive bringing us to its base we alight. Reaching the summit the long-drawn breath of relief is half choked by the indescribable magnificence of the view, and for the first time we appreciate the sublimity and grandeur of the Sangre de Cristo range. A few more steps and we are at the tent of Prof. Cope's party, and all within and without is heaped-up bones, rocks now, and many of them so perfectly agatized that at a casual glance it would stagger any but a scientist's belief that they were ever covered with flesh. As seen here, however, it is so palpably apparent that the seeming rock and agate are bone as to leave no room for shadow of doubt. Before us are perfect parts of skeletons so huge as to prepare one for the belief that Noah's Ark was a myth; sections of vertebra three feet in width; ribs fifteen feet long; thigh bones over six feet in length—and the five or six tons of bones thus far shipped east comprising only the parts of three animals. In one pit the diameter of the socket of the vertebræ measured fifteen inches, width of spinal process forty-one inches, and depth of vertebræ twenty-nine inches. In another place there was a thigh bone six feet and two inches in length; a section of backbone lying just as the monster rolled over and died, with eleven ribs attached, the backbone 20 feet long and from 16 to 30 inches deep, and the ribs 5 to 8 feet in length and six inches broad. Just showing upon the surface was a part of a thigh bone 22 inches in width and 30 in length, and near it a nine-foot rib four inches in diameter, a foot wide at six feet, and where it articulated with the vertebræ, 23½ inches in width. The entire rib was fifteen feet in length. All over the hill we come upon little piles of broken bones which will require days of patient labor and skillful handling to properly set in place. The first discovery of the fossils was made in April last by a young graduate of Oberlin College, who, teaching a country school in the Park five days in the week, spent his Saturdays about the hills hunting deer, and occasionally getting a shot at a grizzly. Immediately upon satisfying himself of the character of the discovery the young man wrote to his old Professor in Ohio, and subsequently to Prof. Cope, of Philadelphia. Hardly had the latter organized his party of exploration before Prof. Marsh had his, under the leadership of Prof. Mudge, of Kansas, duly equipped, and by the middle of May both parties were actively engaged excavating, setting up and preparing for shipment the bones which Prof. Marsh declares are seven million years old. The first animal discovered was of entirely new genus and species in scientific circles, and was named the camarasuras supremus, from the chamber or caverns in the centrum of the vertebræ. Of the first petrifactions exhumed was a femur or thigh bone six feet in length, scapula or shoulder-blade five and a half feet long, sacrum, or the part of the backbone over the hips—corresponding to four vertebræ united in one—forty inches. Vertebræ immediately in front of this measured in elevation two feet six inches, and the spread of the diapophises was three feet. Prof. Hayden, the widely-known chief of the United States Geological Survey, upon visiting this place and inspecting these and other parts of the animal, declared it his conviction that the beast must have been fully a hundred feet in length. The thigh bone, measuring some six feet, stood over the hips 18 to 20 feet. The animal was undoubtedly shorter of front than of hind legs, and Prof. Marsh thinks it had the power to raise up like a kangaroo on its hind legs and browse off of the leaves of the trees from sixty to eighty feet in height. The professor also gives it as his opinion that the "critter" fed entirely upon grass and leaves, the vertebræ of the neck being some twenty-one inches in length and the spread of the diapophises three feet, this being understood as cervical vertebræ. The skeleton is not completely exhumed, though between 7,500 and 8,000 pounds of bone have been shipped to Prof. Cope. A part of the jaw of a lælaps trihedrodon ten inches long and containing eight teeth varying from five to eight inches in length, has also been shipped. Recently a leg bone of this same animal was exhumed and found to measure a little over four feet, and with a portion of the head all crushed into small pieces, sent on to the professor. A part of the femur of another animal has been found, it measuring six feet, but somewhat lighter than the others. The vertebræ are three feet six inches in elevation, showing a very tall but not so heavy a brute as the camarasuras. When found, it was lying on the right side with vertebræ and ribs of that side in place, the ribs measuring over six feet in length, and the prongs where they join the back fifteen inches in width. Many of the bones of the camarasuras are misplaced and broken up, quite a pile being found at the spot where several of the teeth of the trihedrodon were discovered, thus indicating the preying of the one upon the other. While the general estimate of the age of these petrifactions among American geologists is seven million years, English scientists declare them fourteen million years old. Both the camarasuras and the trihedrodon were of the jurassic period, being found in beds which according to Prof. Marsh correspond with the Wealden beds of England. All this section of the country must have been a plain when so much of Colorado was covered by an ocean, and before the mountains were formed. The fossils are found in rock long upheaved, its character now a sort of shale or marlite which upon being dug out and exposed to the air crumbles to pieces. In most instances it is free from bone decay, the parts of animals taken out being remarkable for their clean and perfect solidity. Marsh and Cope agree that the camarasuras was the largest and most bulky animal capable of progress on land of which we have any knowledge, it being very much larger than the mastodon, which was of a much later period.

Prof. Mudge with his party is working about three-quarters of a mile distant from Prof. Cope's camp, and very recently discovered portions of an animal of even more monstrous proportions than those already referred to, and of entirely different genus and species from either. The explorations of the Marsh and Cope parties will be pushed with all possible vigor, the entire scientific world being intensely interested not only in the work here on Talbott Hill, but in the setting up of the gigantic skeletons at Yale College and the Academy of Natural Science at Philadelphia. Excursions from several of the leading colleges to the scene of the discoveries are planned for the summer, and the season's work promises to add to the lively interest in scientific circles.

For the information of those concerned, we add that the time from Kansas City via the Santa Fe road to Cañon City—all rail—is thirty hours, and the distance from Cañon City to Talbott Hill eleven miles. Two weeks' absence from New York would give one a full week among the explorations. The Santa Fe is much the shortest and more than a day's quicker time to Cañon City, the traveler arriving at early supper time and ready for the trip to the hill bright and early the next morning.

THE ROYAL GORGE.

The next morning our way is southward ten miles or more to the coal mines, stopping at the iron spring little over three miles from town. It is up a short dry gulch leading off from the road, and quite peculiar, inasmuch as the water springs from and has worn its tiny channel up the very edge of a long thin ridge that juts out into the gulch. Over the face of the ridge the water has scattered its iron sediment with lavish freedom, but only in this is there anything that to the eye indicates aught but spotless purity in the wonderful clearness of the spring. To the taste, however, the iron at once asserts itself, and the water is so strongly surcharged with it as to render it healthiest of beverages. We drink our fill, and are off for the coal mines. An hour, and we are bowling along in a coal truck attached to a blind mule, through a vein of solid coal something over five feet in diameter. It is a weird ride, this mile or more into the inky bowels of the earth, the faint shadows from our diminutive lamps causing a ghastly effect not at all lessened by the blackness of the coal on either side and overhead. Every few feet we peer into the dusky depths of the apparently unending series of side chambers, catching quick glimpse of the little fire-bugs, as the miners look to be, as we pass so swiftly on. We see not the forms of the men, their faces, nor their hands, only the lampwicks' sickly flaring from the unseen hats. Every now and then piles of powder in canisters almost block up the entrance to the chambers, and at one point we are shown the very fuse that sent a poor miner to his death but a day or two before. But still the old blind mule trots on, and the passing through and rapid closing behind us of the heavy oaken door, that preserves the little of wholesome air left in the drift, is as if it barred us forevermore from the world behind. The ride in appears an age; the ride out but of moments' time in comparison. There are eighty-six side-chambers, or rooms as the miners know them, in the main entry, fifty-seven in another entry, and in all, four miles of track upon which the coal is carried to the outer world. The veins average five feet two inches, and run three and one-half miles east and west and ten miles north and south. A hundred miners are at work, and the yield averages four hundred tons per day. The gigantic solid lump of coal eight feet nine inches long, six feet across and four feet four inches high, that attracted such great attention at the Centennial, being beyond all comparison the greatest single piece of coal on exhibition, was taken from this mine. It weighed seven tons, and was cut and brought out of the mine in three days. Cañon City coal is unquestionably the finest bituminous coal in the world, and is so extensively used throughout the West as to require the running of special trains for coal alone on the Denver & Rio Grande road, which has its own track to the mines. The supply is beyond all human calculation, for the Valley of the Arkansas is one vast coal bed for mile upon mile. On the return trip we make quite a detour to the east, to spend a little time at the gypsum beds of twelve feet in thickness.

Leaving the hotel immediately following an early breakfast, next morning, a drive of twelve miles brings us to the Grand Cañon of the Arkansas. Disappointment is bitter, and feelings of resentment almost beyond control, as nowhere can the eye discover the cañon. In the immediate foreground the piñon growth is rank and dense; just beyond, great bleak ridges of bare cold rock contrast strongly with the profusion of foliage hiding everything beneath from sight, while away in the dim distance the snow-crowned peaks of the continental divide are outlined sharp and clear against the solid blue of the morning sky. Though grand beyond anything we have seen in amazing extent of vision, the mind is so wrapped up in the anticipation of full realization of the gloom and vastness and solemn grandeur of the Grand Cañon as to resent almost angrily the apparent absence. A half dozen steps from the clump of piñon trees where the horses have been fastened, and all thoughts of resentment, of disappointment and chagrin vanish, and a very cry of absolute terror escapes us. At our very feet is the cañon—another step would hurl us into eternity. Shuddering, we peer down the awful slopes, fascinated we steal a little nearer to circumvent a very mountain that has rolled into the chasm, and at last the eye reaches down the sharp incline three thousand feet to the bed of the river, the impetuous Arkansas, forty to sixty feet in width, yet to us a mere ribbon of molten silver. Though surging madly against its rocky sides, leaping wildly over gigantic masses of rock and hoarsely murmuring against its

prison bars, we see not nor do we hear aught of its fury. The solemn stillness of death pervades the scene—the waters as we see them are as if polished, and as stationary as the mighty walls that look down upon them from such fearful height. Fairly awed into a bravado as reckless as it is strange to us, we crawl out upon tottering ledges to peer into sheer depths of untold ruggedness; we grasp with death-like clutch some overhanging limb and swing out upon a promontory beside which the apex of the highest cathedral spire in the world would be as a sapling in height. We crawl where at home we would hardly dare look with telescope, and in the mad excitement of the hour tread with perfect abandon brinks the bare thoughts of which in subsequent sober senses makes us faint of heart and dizzy of head. Eager now for still greater horrors of depth, blind to everything but an intolerable desire to behold the most savage of Nature's upheavals, the short ride to the Royal Gorge is made with illy-concealed impatience. If our first experience upon the brink of the Grand Cañon was startling, this is absolutely terrifying, and the bravest at the one point become most abject of cowards in comparison at the other. At the first point of observation the walls, though frightfully steep, are nevertheless sloping to more or less extent; here at the Royal Gorge they are sheer precipices, as perpendicular as the tallest house, as straight as if built by line. So narrow is the gorge that one would think the throwing of a stone from side to side the easiest of accomplishments, yet no living man has ever done it, or succeeded in throwing any object so that it would fall into the water below. Many tourists are content with the appalling view from the main walls, but others more venturesome work their way six hundred to a thousand feet down the ragged edges of a mountain that has parted and actually slid into the chasm, and as we have come to see it all the clamber down must be accomplished. For some distance we scramble over and between monstrous boulders, and then reach the narrow and almost absolutely-perpendicular crevice of a gigantic mass of rock down which we must let ourselves a hundred feet or more. As we reach the shelf or ledge of rock upon which the great rock has fallen and been sundered, we glance back, but only for a second, the thought of our daring making us grow sick and dizzy. But a step or two more and the descent just made sinks into utter insignificance compared to what is before us. Then we had the huge walls of the parted rock as the rails of a staircase; now we have naught but the smooth rounded surface of the storm-washed boulders to cling to, and on either side of our narrow way depths at the bottom of which a man's body could never be discovered with human eye. Behind us the precipitous rocks over and through which we came; ahead of us the slender barrier of rock overhanging the appalling chasm, and all there exists between us and it. Cowards at heart, pale of face and with painful breath we slowly crawl on hands and knees to the ledge, and as the fated murderer feels the knotted noose fall down over his head, so feel we as our eyes extend beyond the rocks to catch one awful glimpse of the eternity of space. Few dare to look more than once, and one glance suffices for a comprehension of the meaning of the word depth never before even dreamed of, and never afterward forgotten. The gorge is 2,008 feet sheer depth, the most precipitous and sublime in its proportions of any chasm on the continent. The opposite wall towers hundreds of feet above us, and if possible to imagine anything more terrifying than the position on this side, that upon the other would be, were its brink safe to approach. Overhanging crags, black and blasted at their summits or bristling with stark and gnarled pines, reach up into profoundly dizzy heights, while lower down monstrous rocks threaten to topple and carry to destruction any foolhardy climber who would venture upon them. Among all the thousands who have visited the Grand Cañon and the Royal Gorge harm has befallen none, for despite the seeming horror of the situation, the appalling depths and rugged paths, the fascination of the danger appears to give birth to greatest caution. The cañon, except in the dead of winter is approachable only from the top, the walls below being so precipitous, and the river such a torrent, as to defy all access. When frozen, as the waters are for brief periods during the coldest months, the way up the cañon may be accomplished, but only at the risk of personal comfort and not a little danger. Mr. Talbott, the photographer at Cañon City, ventured into the cañon last winter with his apparatus, and after infinite trouble secured the excellent views which afford us some conception of the grandeur of the gorge from the bottom.

Returning to Cañon City we conclude to remain about the hotel for a day resting up, and deciding upon the route of a tour through southern Colorado, taking in the San Juan country, Chalk Creek, California Gulch, Twin Lakes, South Park, etc. etc. We have enjoyed to the fullest the jaunts of a day, and now long for a month on the road with headquarters wherever night may overtake us. The reader may be inclined to ask if there are no more comparatively short trips, with Cañon City as the base, and the reply would be, there are, and so many in fact as to be almost beyond enumeration. A most enjoyable four to five days' tour is that from Cañon City to the wild and picturesque region of the Sierra Majada, 30 miles *via* Oak Creek Canon to Rosita, altitude 8,600 feet, and return *via* Wet Mountain Valley and Grape Creek Cañon. This is a "timber liner," as an old prospector would denominate so wide and high a range of altitude, and affords capital opportunities for the enjoyment of life oft-times above the clouds. Near Rosita are several distinct craters, and in the very accessible grass-covered, cone-shaped hills that rise 500 feet or more above the town are innumerable mines. About them are found the most beautiful specimens of crystallization, different kinds of spar and pyrites of most brilliant hues. The ride down the little grassy gulch or glade to obtain a nearer view of the Wet Mountain Valley, and the Sangre de Cristo range beyond its western limit, is a very delightful one, looking at sunset time like some grand painting with the point of view at the small end of the vista, and the eye ranging down the timber-girted glade to mountains 13,500 feet in altitude, beholds the massive and majestic peaks, rolling and swelling against the clearest sky ever mortal eye was gladdened with. Many Englishmen have made homes in the valley, which by many is called "The Britons' Paradise," and which is not wondered at after leaving the grayish green of the foot-hills, and reaching its bright green meadows, starting up here a prairie dog and there a rabbit, and crossing and recrossing its trout-filled silvery streams. In the valley is the famous Lake of the Clouds. The fourth night ends at Cañon City, and the expense of the trip hardly averages $5 per day, including everything. Another exceedingly pleasant trip from Cañon City is to Poncho Springs, 65 miles up the Arkansas river, but as we intend visiting them on the extended trip already in the finishing stages of preparation, a running description of the drive through the Upper Arkansas Cañon will here suffice. Engaging a seat in the regular buckboard line leaving Cañon City every other day, the start is made immediately after early breakfast, and the sun is hardly over the mountains before the sublimely grand confines of Grape Creek Cañon are reached. A word as to the buckboard, for beyond all comparison the most comfortable and enjoyable of all vehicles for mountain travel, it deserves at the least a passing mention. Built expressly for Barlow & Sanderson, the great stage men of Colorado, the buckboard of their lines is a roomy, double seated, open vehicle, the slatted bed lying directly upon the axles, and the seats set well up on fish-plate springs, the jar consequent upon striking rock or stone is almost lost before it reaches the seat. There is none of the rolling, swaying motion of the bulky coach, or of the short, jerky action of the aptly named "Jerkee." There being no top, the eye ranges at will, and the bed of the conveyance is so near the ground one can readily spring out and walk when so inclined, many preferring so to do when climbing long hills.

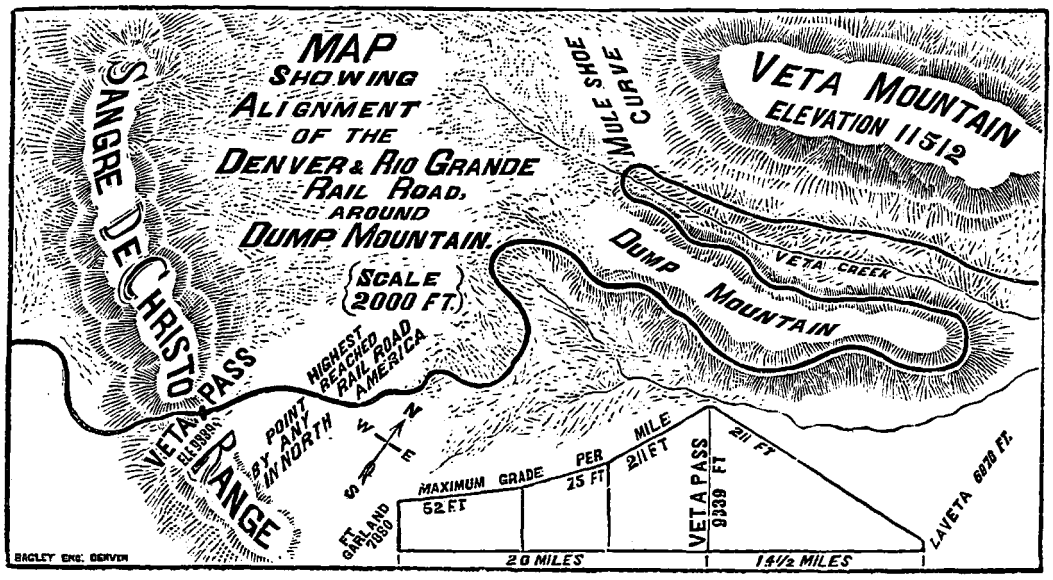
Emerging from Grape Creek Cañon the road winds through Webster Park, thence into Copper Gulch, at the head of which is a towering gateway of solid rock, and passing through it to the top of the divide the scene is grand beyond all conception. Directly ahead is the snowy range with its white-capped crests looming high above the clouds which hang about the rocky breasts below as if loth to leave their ample resting place. To the left is the Greenhorn range, to the right the great continental divide, and imagination could not picture sight more sublime. Through Seven-mile Gulch the road enters Pleasant Park, with its rugged rock sculptures, its densely-wooded slopes and grassy lawns. On every side are most curious monuments formed of monster boulders one atop the other, and holding position by apparently so frail a thread that the gust of a moment's duration would hurl them from dizzy heights to the level of the Park. While in the Park magnificent views are obtained of Mount Blanca and Pike's Peak, either of them not less than 80 miles away, and at the summit of the divide between Pleasant Park and the South Arkansas—altitude 7,800 feet—the view in all directions is beyond description. From this the descent is commenced; at nightfall the solid, comfortable and roomy old stone house, known Colorado over as Bales, is reached, and with it the South Arkansas. Twenty miles farther is the Chalk Creek region, with its hot springs, fishing and hunting, and thirty miles beyond are the noted Twin Lakes. Fifteen miles from the lakes is California Gulch, with the wonderful Mount of the Holy Cross to the north. From South Arkansas the stage line runs on over Poncho Pass and through San Luis Park to Saguache Del Norte and San Juan points generally; but as our month's jaunt is to embrace the country all around and about South Arkansas, further description at this immediate moment is not called for.

RUINS NEAR DEL NORTE.

After long and careful study of the new and remarkably complete map recently issued under the supervision and direction of Prof. Hayden, of the United States Geological Survey, and due deliberation as to the country to be covered, we decide the details of the tour, which, if one can spare the time, is beyond all question the grandest, most comprehensive, instructive, invigorating and least expensive of any extended excursion which can be made in all this vast mountain region. It is to cross the Sangre de Cristo range, over Veta pass, on the Denver & Rio Grande Railway; thence by stage to Del Norte; thence up the valley of the Rio Grande through Wagon Wheel Gap to Antelope Park; thence to Silverton, the seat of the great silver district of the San Juan; thence into the Uncompahgre Valley and Park, making the circuit to Ouray; thence to Lake City; thence via the Los Pinos Agency; crossing the Continental Divide to Saguache; thence down the San Luis Valley over Poncho Pass to South Arkansas; thence to Chalk Creek, Twin Lakes, California Gulch and the Mount of the Holy Cross, returning via South Park to Fairplay, thence through Ute Pass to Manitou and Colorado Springs. This the main line to be followed; numberless side jaunts are permitted, and nearly if not quite the entire tour can be made by stage. The most agreeable manner of making the tour is, however, the commingling of stage, wagon, horseback and jaunts on foot, as in this way one is entirely independent of time schedules, gauging his rambles only so as to make connection with stage at such points as it is most desirable. It is not unfrequently the case that horses, mules and equipment complete are purchased before starting, and at the completion of the trip sold readily for such prices as render the expense very small. Others charter conveyances for indefinite periods, and pay at a specified reduced rate per day. In short, one may make his own choice of preliminaries, and thus fix the cost according to the means at command.

Whatever course may be decided upon, certain it is that the work of the U. S. Geological Survey in Colorado, under charge of Prof. F. V. Hayden, will be appreciated to the fullest extent. It is *par excellence* the working scientific survey of the United States, and is composed of civilians, who are scientific men of the highest eminence. Although Prof. Hayden, as the head of the survey, gets the credit for the work done, yet Prof. Hayden, wise as he may be, could do comparatively little without his eminent assistants. A thing in his praise is that he has employed and gathered together in his survey the ablest scientists in the country; that he gives the best work, most thoroughly done; and that his accounts show close management and economy in every outlay.

Prof. James Stevenson is the executive and financial officer of the survey, and to those visiting or holding correspondence with the department is the cheeriest and most courteous of men. To him the writer in the present instance owes more than can be repaid, as, had it not been for his courtesy and never-tiring energy in placing at disposal the most exhaustive information regarding Colorado, THE TOURIST would have been sadly lacking in the completeness now rendering it so attractive. To Prof. Jackson, the photographer of the survey, is also a debt of gratitude due that can be paid only in never-failing remembrance of his many kindly acts and the invaluable assistance obtained through the suberb counterparts he has made of the grandest and most sublime works of nature on all the continent. Many of the grandest efforts of that greatest of all artists in mountain scenery, Mr. Thomas Moran, are from photographs by Prof. Jackson, and it is through the generosity and courtesy of the leading publishing house of the country, D. Appleton & Co., of New York, we are enabled to present upon the pages of THE TOURIST several of Mr. Moran's most famous drawings of Rocky Mountain scenes. These drawings were made expressly for Picturesque America, and are pronounced by critics of the highest standing in art circles the finest in detail, most artistic in finish, and effective in general treatment, in all the two volumes of that superb publication.



And now to the tour of southern Colorado. We part with sincere regret from Mr. B. F. Rockafellow, the postmaster at Cañon City, and to whom we are indebted for courtesies without number. A genial, excellently informed and active gentleman — fortunate indeed is the tourist who falls under his kindly care.

Our route takes us back to Pueblo, and a couple of hours intervening between time of arrival and departure south, we stroll about the thriving, busy place, not a little impressed with the commercial activity so apparent on all sides. Pueblo is quite metropolitan in its way, having the Holly system of water-works, attractive stores, ore-sampling and crushing works, rolling mill, fine depot buildings and the like. It is the junction point of the Atchison, Topeka & Santa Fe and the Denver & Rio Grande railroads, and the outfitting centre for the mining regions of southern and south-western Colorado, with control of trade generally to the line of Utah, and southwest into Mexico. Pueblo is the point from which about two thirds of the immense product of beef cattle of southern Colorado is shipped East.

Between twelve and one o'clock, noon, the Denver & Rio Grande train, upon which we are to cross the Sangre de Cristo range, glides into Pueblo. A half-hour wait for dinner, and we are off. Pullman is completing an elegant line of parlor cars for this road, and built as they are expressly for affording every possible comfort, and at the same time enabling most extensive range of view upon either side, they will greatly enhance the enjoyment of the trip. Skirting closely the base of the Greenhorn range, a couple of hours' ride brings us to the junction of the branch for Trinidad and El Moro, and where change of cars is made for those points. Trinidad is the centre of an immense coal district, the veins in many places reaching almost incredible dimensions. Another hour over plains so vast upon one side as to defy the eye to bound, and ranges of hills upon the other so numberless as to dare one's temerity to enumerate, and way off in the dim distance, but so clearly outlined as to stand forth clear and unmistakable from the billows of fleecy clouds encircling them, are the Spanish Peaks. Approaching nearer, the two mountains are seen to rise far above the level of the surrounding country, and, standing isolated and alone, the effect of their height is much increased. The fertile valley of the Arrapahoe is in the foreground, and from it rise abruptly the symmetrical forms of these two giants. Innumerable walls, high and of great length, stretch from the valley up toward the summit of the peaks, while solitary buttes of undoubted volcanic origin give evidence of others that have crumbled away. The lower of the peaks, one reaching an altitude of 13,620, and the other 12,720, presents steeper outlines and more sharply-cut slopes and ridges, and the two standing in such close twinship combine more of picturesqueness and grandeur than almost any other rock-masses in the state. Just as the declining afternoon sun is sending a flood of radiance through the great rocky gateway, and forming rich and glowing contrasts of light and shadow we enter Veta Pass, the space within packed with undulating hills which seem to come rolling to the mountain base like giant waves. Soon we mount higher and higher above the crests of these swells of green-capped waves; we hug the huge side of Veta Mountain with a tenacity that grows stronger and stronger as the elevation attained becomes greater and greater. The iron horse fumes and snorts with almost demoniac fury as it slowly makes its way along the narrow ledge, and as the grade grows steeper and steeper it would seem as if each succeeding mighty throb of molten pulse of the majestic monster must burst its fire-centred heart into a thousand fragments. From its great round throat there pours one living, seething, whirling stream of angry sparks, while the glare from its livid stomach as the entrance is thrown open for bushel upon bushel of the black diamond-like coal, fairly rivals the fast-setting sun in glowing baths of crimson floods. Up, up, ever up, we measurely glide, the incline of the grade showing plainly upon the floor of the car; and a sharp curve in the road brings us in full view of Dump Mountain with its line of track seaming its side until it appears to end in the clouds. As we near Mule-Shoe Bend, as the astonishingly sharp curve from Veta to Dump Mountain is called, the scene baffles description. So narrow and thickly wooded has become the pass that one could almost throw a stone from track to track. The mountain sides close in like giants determined to stay the progress of the train, and drive it back to its starting point on the far-off plains. On every side trees mass themselves in wondrous profusion; on our right extending high up the towering, rocky form of Veta Mountain, and on our left far down into the shadows of long, steep slope hiding at intervals the old stage road that passes under the graceful arch of stone around which bends the "mule shoe." Opposite, the densely-wooded sides of Dump Mountain loom up dark, stern and unfathomable in forest, fern and moss. Far above the mountain's crest, snow-crowned, rose-flushed and majestic, towers Mount Blanca, its peak the nearest heaven of any elevation on all the continent. At Milk Ranch, where the grade is 217 feet to the mile, we catch our first glimpse of Inspiration Point, and trace upon the mountain side eight hundred feet in direct line above us, the track which an hour later we shall pass over. Just as we near the Mule Shoe we glance back, and Inspiration Point appears to end abruptly in the clouds, while from the bed of the road the precipice falls away so sharp and perpendicular into the now darkening shadow below, that involuntarily a shudder creeps over the frame, and we quickly turn to the present, leaving the future to settle itself. Rounding Mule Shoe, we appear to be for an instant going in exactly opposite direction to the engine at the head of our train, and it is hardly an exaggeration to declare that a stone might be thrown from the platform of the rear car directly across into the cab of the locomotive. It crosses the viaduct over the stage road upon a 30° curve of 193 feet radius, and is the sharpest railroad curve in the world. The famous Horse Shoe Bend on the Pennsylvania Central road is a 90° curve of 637 feet radius, while the greatest on the much-vaunted Meiggs road over the Andes is a 14° curve of 376 feet radius. The writer of an article in a comparatively recent number of *Scribner's Magazine* declared the ascent from Lima to San Bartolome, 4,910 feet in 39 miles, unparalleled in the history of railroad building, yet the Denver & Rio Grande road makes an ascent of 2,439 feet in 14 miles — Veta to the summit — and its average grade is 213 feet to the mile, while that of the Meiggs road is 210 feet to the mile. The American road is a legitimate business enterprise, the other speculation in bonds rather than an investment of capital based upon a practical footing, and with eye to practical results.

Rounding Mule-shoe Bend, we again give ourselves completely over to the strange sensations of the scene, and looking down the valley the sight before us would defy a Bierstadt to reproduce. Upon the left, Veta mountain assumes new and imposing dimensions, for now we see it standing out bold and clear, its white-crowned head playing with the clouds which frolic so gracefully about it. On the other side, across the lovely little valley intervening between, are the Spanish Peaks, the last rays of the now almost departed sun losing themselves in the twilight haze gathering about their rocky breasts. Between Veta Mountain and the Peaks, down where their bases mingle in common unity, nestle the quaint cluster of houses constituting Veta Station. Recalling the eye from the distant to the immediate, it falls with horrified stare upon the precipice which upon our left plunges headlong down among the scattered rocks and blasted trees to the very bottom of the gorge that but a few moments before appeared the loveliest of little valleys. As we draw closer to the car window with that sense of danger which increases the sublimity of the scene, it seems as if we were hanging over the very verge of the chasm, so narrow the ledge upon which we are passing up, up, ever upward — and the good Lord forbid it should ever be downward over these appalling heights. Fainter and fainter grows the line of the road beneath us, and upon Veta Mountain, directly opposite, we distinguish a freight train, apparently going in the same direction we are, but in fact headed exactly the other way, and upon incline so steep as to look almost as if in the act of falling over upon itself. Still we climb, and every second the scene grows more terrific in its character. Great streams of loose stones fall away from the line of track, poured out as if by superhuman hand all along down the mountain sides. Here we breathe freer, thinking that if aught should happen to the train, its mad plunge over the rocky wall would be stopped by the mighty trees that stand stalwart upon the brink. Another sudden turn, and there is naught but the sheer declivity between us and the track nearly eight hundred feet in the dim distance below. Nearing Inspiration Point, the wildness of the ride, the terror-inspiring abruptness of the precipice, the stone-stayed track-bed, and the hoarse mutterings of the locomotive, tend to an excitement that few can control, and for a moment the fact of being actually above the clouds upon a railroad train is not heeded. Nevertheless it is true, for below us wreathe the snowy fleeces like softly-fallen snow, and out from which the Spanish Peaks rise in sublime magnificence, and appear to fairly double their towering height. As if as intensely impressed with the utter solemnity and majesty of the scene as we human beings, the ponderous engine lengthens its sonorous breathings, more slowly strides its steel-bound way, and passes the dizzy depths of Inspiration Point with motion so stately as to suggest new thoughts of nature's wondrous influences. We watch until the last ray is lost in the twilight haze, and the last tint faded into the wondrously clear blue of the night; then over the mountain sides, upon the sharp-cut faces of the Spanish Peaks, down into the moss-carpeted valleys, into the car windows until the lighted lamps look like dusky sparks of smouldering fire shines the evening star. Those who have seen the Alps have enjoyed to the fullest the glorious vistas of Switzerland, and have since crossed the Sangre de Cristo range over Veta Pass by starlight, declare there is nothing in all Europe to equal it.

VETA PASS, ON THE DENVER & RIO GRANDE RAILWAY.

On, on, we climb, nearer and nearer the star-studded heavens, until the summit of Dump Mountain is reached, and where our train comes to a full stop before a cozy stone station-building closely sentineled by sturdy pines. This is the highest railroad station on the continent, and with the sole exception of a single station on the Meiggs road in Peru, the highest in the world. The altitude is 9,486 feet. From the summit we go down to Garland by gravity, though very slowly until the steepest grades are overcome, then the brakes are gradually loosened, and we glide away at a rate that causes us to quicken our breath somewhat, and almost wish the level grade were reached. But the track is in admirable condition, is very heavily and compactly ballasted, and upon engine and coach is remarkably perfected machinery for safe transit. Reaching the low, even grade of the beautiful little valley, at the head of which stands Garland, a few moments' rapid travel and we are at that odd looking place noted for the rapidity with which it was built and populated, having sprung from absolutely nothing to a miniature Chicago, with a thousand or more inhabitants, in six weeks. The place will, however, vanish even more suddenly than it appeared the moment the Denver & Rio Grande railway is completed to Alamosa, which will be in June. Though about every house in Garland is built in sections, and susceptible of being taken to pieces in a day's time, we find the hotel, taking its name from the town, anything but an uncomfortable place, and the rate per day $3.

It is one of the pleasantest brief jaunts imaginable to make the trip from any point on the Denver & Rio Grande road to Garland and return. It can be made from Denver and return in two days, leaving Denver in the morning and returning the next evening. From Colorado Springs it is still more desirable, leaving the Springs one morning at 11 o'clock, and returning the following afternoon at 4. The time from Cañon City is about the same, while from Pueblo it is made in a half day either way. On the round trip one has the sunset effects on the ascent of the pass, and the sunrise on the descent. The way down is to some more thrilling than the ascent, the train crawling around the cliff faces, clinging to the rocks, and, as it seems, fairly hanging on to the willows; hunting each little hollow to its head, then swinging to the right and balancing gingerly out upon the point until the "pilot" peeps over the brink, and the engine shakes its cinders into the gorge below. Between two strata of clouds the train moves silently and steadily, and the Spanish Peaks look as though their base rested upon the cloud line. The upper clouds are torn and rifted. and the sun shoots its glowing rays through and down upon the second strata of clouds a thousand feet below, penetrating to one third their depth, and giving them the appearance of a snow-covered plain.

Out of bed at daybreak, a sumptuous breakfast of trout and grouse, a bracing climb up the stony hill in front of the hotel, and we hail with delight the rumbling of the great wheels of the Concord coach that immediately thereafter dashes up to the door, the six bright, sleek-coated bays testing the bronzed and bearded driver's strength to the utmost to hold them in check until the word to depart is given. Six miles from Garland we reach the fort from which the town derived its name, a dilapidated but withal picturesque old military post, now garrisoned by a handful of men who spend the greater portion of their time fishing and hunting. Soon Blanca, the queen mountain of the continent, breaks into full view, and beyond rise the shapely crests of the great Sangre de Cristo range, the most symmetrical and regular mountain chain on the continent. We are now fairly in San Luis Valley, an almost limitless expanse of perfectly level country backed up by mountains beyond enumeration. Mile after mile we journey on, and to our amazement the farther we go the less we appear to draw away from Mount Blanca, and now at noon we seem to occupy the same position relatively toward the huge black mass we did four or five hours before. At any time it would appear that a brisk walk of a half hour would end at its base, yet at Del Norte, 68 miles from Garland, the mountain seemed no nearer, or yet no farther away than when we first saw it in the early morning light. Seventeen miles from Del Norte we reach the site of Alamosa, soon to be the terminus of the Denver & Rio Grande road. Here we have the first sight of the Rio Grande, and beyond the river loom up the rugged sides of the Saguache range, the peaks at first cloud-crowned, then standing out defiant in their all-conquering height. On the south stretches an interminable plain with the shadowy lines of mountain crests mingling with the clouds, while on the north a tumultuous sea of peaks extend on to the remote horizon. To the west we see series of ridges covered with trees rolling away one after the other for miles, and beyond the farthest, over even the tallest domes of Saguache range, lifting its snow-clad sides up into the skies is Uncompahgre Mountain, 14,235 feet above the sea. As the sunset bathes the mountain peaks in vivid red, while all below is enveloped in cool purplish shadow, we dash up to the hotel doors in Del Norte for supper, and then the continuation of the journey to Lake City by moonlight, or by daylight next day as we please. We prefer sleep at night and action during the day, hence the stage goes on without us. Situated as is Del Norte in the southwestern pocket of San Luis Valley, where the Rio Grande leaves the foot-hills for its journey of 2,000 miles to the Gulf of Mexico, it is protected by a chain of mountains, the Sierra Madre running north, and a spur of the summit range extending southeast, the two effectually barring the progress of the heavy snows that would otherwise fall during the winter at its elevation, 7,500 feet. Although the altitude is so much greater than that of Denver, Del Norte has a much warmer and more even temperature throughout the winter, while in summer it is very much cooler, blankets at night being indispensable. This reference to blankets suggests a word of advice to tourists, and that is, never to neglect to include an ample supply of wraps and robes when preparing for a trip in the mountains. You cannot tell when you may need them, especially if the journey includes any night traveling. The stage companies do not furnish robes at any season of the year, as if they did, it would require an extra man to every coach to care for them.

The location of Del Norte is decidedly picturesque, and the view of the Sangre de Cristo range from here is simply sublime. Though 60 miles away its clear cut line of peaks stands forth as distinctly as if close at hand, stretching for miles and miles in unbroken regularity, and whose peculiar charm to the beholder is, that on the valley side there are no foot-hills to mar the majesty of the range. At the head soars Sierra Blanca, proudly overlooking the hundreds of miles of territory that lays respectful homage at its feet. And when the western sun stoops behind the Sierra Madre to peer into the mysteries of the Pacific slope, he never leaves without first whispering fond farewell to Blanca, which causes that old monarch to blush a rosy red from bosom to brow. The population of Del Norte now numbers in the neighborhood of 2,000, and as the prospective terminus of the Denver & Rio Grande, together with its importance as the main gateway to the San Juan country, bids fair to grow greatly in the immediate future. The Cuenin House is a substantial brick hotel, with accommodations for 100 guests, the day rate for transients $3.50, $12 per week, and same rate per month. Stages arrive and depart from the house from and for Garland, Wagon-Wheel Gap, Lake City, Saguache, Cañon City, Summit Mines and Pagossa Springs. The distance from Garland to Del Norte is 68 miles, from Del Norte to Wagon-Wheel Gap 31 miles, Antelope Park 46 miles, Lake City 85 miles, Del Norte to Saguache 33 miles, South Arkansas 81 miles, Pleasant Valley 103 miles, Cañon City 142 miles. The average time made per hour is 6 miles, and the average rate of fare 15 cents per mile, special rates being given where parties make extended tours. The line from Garland to Lake City runs daily, and the journey is continuous, the stages running night as well as day. The Cañon City line runs tri-weekly, and only during the daytime, with "lay over" at South Arkansas. From Del Norte to the Summit district is 25 miles, and the fare is $5. The meals at the eating stations average 75 cents each, and are generally of a very appetizing character, especially to those from east of the Mississippi, where game is a luxury rather than the mainstay it is hereabouts. The equipment of the Overland Mail & Express Company, or as much better known the Barlow & Sanderson's lines, is remarkably complete, and so extensive as to permit almost any number of extra coaches when required. The stables of horses at the changing points, averaging 15 miles apart, are a constant succession of attractive studies to those having any admiration whatever for the noblest of animals, and the five or six minute stops at such places afford an inspection of equine strength and beauty decidedly pleasing. The horses are fed and groomed with the greatest care, and one would have to go a long way to find so splendidly matched and really speedy "six in hand" as the bright chesnut-colored beasts that brought us into Del Norte with such proud *eclat*.

Leaving Del Norte bright and early for the thirty-mile ride up the valley of the Rio Grande to Wagon-Wheel Gap, the clear, cool morning air has naught of hazy, miasmatic appearance, but absolutely seems to glisten and crackle in its bracing purity. Away we dash along the smooth and gently undulating road at a rattling pace, reaching South Fork for dinner at Edwards. The South Fork of the Rio Grande has its source in the Summit Range flowing northward through wild and picturesque scenery until it empties its perfectly clear waters into the main stream. On we go again, and the valley narrowing in upon the river we are soon hemmed in with it between the massive walls of solid rock that rise so

WAGON-WHEEL GAP AND HOT SPRINGS.

high above on either side as to throw our leafy way ahead in soft and bewilderingly tender shadow. Our road is as a terrace, dark woods and steep rocks overhanging it on one side, and on the other the river rushing, tumbling and roaring over ledges of stone in its frantic haste.

On through a succession of glorious scenes constantly increasing in grandeur, we find sublime culmination where the river turns abruptly into the rocky walls which open to give it passage, called in the homely vernacular of the mountains Wagon-Wheel Gap. We are now directly fronting the absolutely perpendicular face of the stupendous cliff forming the right hand wall of the gap. The first emotion is one of bewilderment not unmingled with dread at the impending proximity of the awful pile. For a half mile or more its crest is comparatively unbroken, and whether by upheavement or down dropping, by slow friction or sudden disruption, the world was made, there before us is 1,700 feet of mother earth as naked as new-born child. Under this vast wall, so close in its shadows that sunrise lingers long in the lap of morning, is Peck's picturesque log house, the best known and highest prized holsterie in all this region. Though of logs, the house is roomy, and so neat and delightfully presided over by Mrs. Peck that her virtues as a housekeeper long since passed into proverb. Peck himself is a very prince of landlords, open-hearted, jolly, and the champion fisherman of Colorado. From the house to the river is but a few steps, and from the pearly stream Peck coaxed the past season no less than 3,400 pounds of trout, serving this great wealth of speckled beauty upon the tables of his dining room. Directly in front of Peck's, and reached by the romantically-surrounded bridge crossing the Rio Grande, is the Hot-springs Valley, and up it, a mile, the hot springs that rival the famous hot springs of Arkansas in the mineral treasures which make the latter-named locality the Mecca of the afflicted. The springs here contain every ingredient of the springs there, and of the most valuable, larger proportion. Analysis of the waters of each will be found in the chapter of this work devoted to springs, wherein will also be found full details of the accommodations provided for those who seek health in this most charmingly-situated sanitarium. A new hotel has just been completed in the immediate vicinity of the hot springs, capable of accommodating 40 to 50 guests. The rate per day for transients is $2 to $3, and by the week $12, special arrangements being made where parties remain to undergo a thorough treatment of the springs. The rate at Peck's, where 15 to 18 guests are accommodated, is from $2 to $3 per day, $12 to $15 per week, $60 per month, no deduction being made, as rooms are always in demand. Parties who camp in the vicinity can secure very reasonable rates for day board.

From Wagon-Wheel Gap the road leads west up the Rio Grande, the valley narrow and rocky of surface to Antelope Park, 20 miles, where it widens out in broad opens profusely and richly clothed with grass. Here the stage road leaves the river as it turns to the right, and passing over a series of picturesque, pine-covered hills, runs into the shadows of a long range of mountains presenting stupendous cliff faces of exceeding ruggedness. They rise vertically to dizzy heights, and are relieved by innumerable columns and strange rock figures that stand out from the wall or crown the summit. In the early summer, while the snow is still melting on the towering peaks, innumerable streams of water pour down over these cliff-faces, forming beautiful cascades hundreds of feet in depth. Midway of this tremendous and magnificent rock scenery, and immediately on the left of the road, is Lake Santa Maria, two miles in length, but quite narrow, and without visible outlet. It is dotted with little rocky islands, and from the farther shore rises a long, sloping, half-wooded mountain ridge. The water is perfectly clear, perfectly smooth, and all indentations in the rocks, every streak of brown upon the majestic mountain sides, every tuft of evergreen that has gained footing, every tree from base to timber line, the peaks, and everything animate or inanimate, are pictured in the cool shadows with undeviating fidelity.

A few miles from Lake Santa Maria, or Mirror Lake, as it is often termed, is Clear Creek, a fine, large stream wonderfully beautiful in cascades. Here the road turns to the northward to surmount the snowy range, and thence onward the slopes are easy and gentle, the country more park like, and we soon reach a point where Clear Creek plunges down hundreds of feet in one tumultuous leap. Half a dozen miles farther is the pass over the summit of the Rocky range, the approach to which is not steep or abrupt on either side. The first waters we come upon that flow toward the Pacific are the head streams of the Powderhorn, which unite with the Cebolla, a prominent branch of the Gunnison. The streams are skirted by narrow, open valleys, but the road soon climbs up a timbered ridge — a mountain spur which diverges to the north — and for nearly 20 miles it winds through the dusky shadows of a dense forest, coming out at last at the summit of Slumgullion Gulch, a precipitous, rocky and stumpy descent, with the Lake Fork of the Gunnison at its mouth, and four miles beyond the largest commercial centre of the San Juan country — Lake City. The site is decidedly romantic, surrounded as is the city by stupendous mountains, now bare and bald, and then finely zoned with prodigious forest growth. The altitude of Lake City is 8,400 feet, and from a mere cluster of cabins in 1875 it has grown into a thriving, busy centre of from 2,500 to 3,000 population, its mills and reduction works comprising the most extensive system of mining machinery in all the San Juan country. It has churches of almost every denomination, three or four hotels, good schools, several banks, five saw mills, free reading room and library, two excellent and energetic newspapers, and other evidences too numerous to mention of substantial and lasting prosperity. Hotel rates run from $2 to $3 per day, and from $10 to $12 per week.

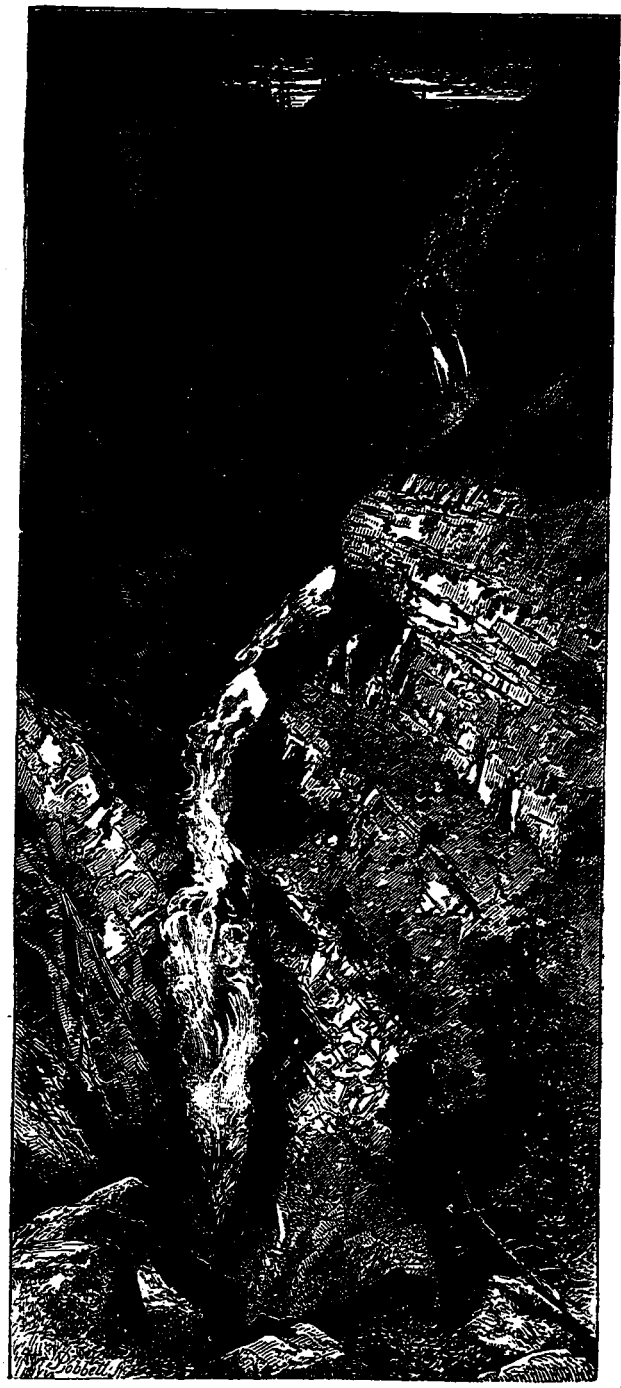
Leaving Lake City, our route is up Hensen Creek in a southwest direction. Four miles of our way is above timber line, and off to the right a few miles is the great Uncompahgre peak — 14,235 feet altitude — its neighborhood a famous place for gathering curious specimens of crystal, amethyst, geode, agates, and the like. Beginning the descent toward the west, we soon come in sight of Mineral City, the loftiest mining camp in the state, and five or six miles farther we come upon the place where Poughkeepsie creek comes in from the left. Now we enter a cañon that constantly grows narrower and deeper and wilder, and as we reach the point where Bear Creek comes in from the gorge on the right, we stop as if suddenly turned to stone at the sight of its leap over the last barrier into the Uncompahgre, in one unbroken fall of six hundred feet. Nearly opposite and just above, another stream — Red Mountain Creek — comes tearing through a gorge as wild and as deep as is the main cañon, which is the grandest and most stupendous of any through which a road passes in all Colorado. This character maintains for six or seven miles, the mountain peaks gradually receding as we approach Ouray. The last striking feature is at the bridge over which we enter the town, a single span of twenty-five feet across a rift in the solid rock hundreds of feet in depth, and at the bottom of which the river is barely visible. Ouray is situated much like Lake City, at the very head of a valley, but its surroundings are grander and far more imposing. The mountains here are very precipitous, and the rocks present greater variety of rich colorings. Ouray is 28 miles from Lake City by the route we have traversed, and doubtless the present season will see the completion of a wagon road the entire distance. The town is very new, but fast assuming importance as one of the leading centres of the San Juan region. The famous Mount Sneffles mining district is but seven miles distant, and almost any number of hot mineral springs in the immediate vicinity. From here we may continue west via Mount Sneffles to the wonderful San Miguel country, or south to the Animas river and Silverton. The latter named point is one of the most important of our tour, and we could have reached it, if so choosing, by much more direct route than via Ouray; as, for instance, taking the road due west from Antelope Park, instead of bearing off in a northwesterly direction to Lake City; or we might have turned off at Mineral City, and gone to Silverton direct via Animas Forks; but we have lost hardly more than a day's time, and beheld that which would repay weeks of travel. Leaving Ouray, we pass on through Animas Forks down the Animas river, to Howardsville, at the mouth of Cunningham Gulch and the junction of Cunningham Creek and the Animas river, and 27 miles from Ouray. On again four miles down a beautiful road winding along the top of a charming cañon, through which runs the river, and we are in Silverton, the seat of the great silver district of the continent. The town is laid out as a parallelogram, a mile in length from north to south, and a half mile in width. The streets running north and south are 100 feet wide, lined with artificial courses, through which water from Cement Creek constantly flows. The cross streets are but 20 feet less in width, and the whole area is divided into 112 blocks of 24 lots each. Trees have just been planted upon all the principal streets, which in a few years will greatly enhance the original beauty of the place. Silverton is growing with great rapidity, its population now exceeding 2,000, and the future, with the new roads and the increased capacity of the reduction works, is of the brightest character imaginable. There is now an excellent road from Silverton to Animas City, 43 miles, and from the latter named point it is but 40 miles to the remarkable ruins on the San Juan river, the wonderful models of which exhibited at the Centennial by the United States Geological Survey attracted such great attention. New and profoundly impressive ruins of the prehistoric race once occupying the country have been discovered in countless numbers on recent explorations of

the U.S. Geological Survey parties, and an expedition, composed of several of the leading scientists of the day, will visit the ruins early the coming summer. The road and trail from Animas City to the ruins has been much improved of late. Formerly it led around the cañon of the Animas, but now it follows the river through it, and the scenery the entire distance is very grand.

Retracing our route to Ouray, we set out on our return to the San Luis valley in an easterly direction, in order to make a brief stop at Saguache, and thence proceed on southward, via Poncho Pass, to the country in and adjacent to South Park, making the entire balance of the tour by wagon road, if so desired. Barlow & Sanderson run a regular buckboard line from Ouray to Saguache, connecting at the point last named with buckboard for South Arkansas and Cañon City. Ninety miles from Ouray we reach the junction of Indian Creek with Lake Fork, and intersect the great route of travel between Lake City, 21 miles west, and Saguache, 71 miles east. We cross Lake Fork, and continue eastward over and among the elevations of another spur of mountains, this being known locally as the Saw-tooth range; more lofty, rocky and rugged than the others, and possibly more interesting for that reason. On the other side, the descent is into the valley of Los Pinos—the Pines—Creek just above its junction with Cochetope river, a famous trout stream, and the vicinity noted for deer and other game.

MOUNT OF THE HOLY CROSS.

Across the valley, of sub-Alpine characteristics, and we commence the climb of a long, easy slope, over a hard, gravelly road, to Cochetope Pass and the summit of the main chain of the Rocky Mountains. From its crest the water flows west into the Pacific, and east into the Atlantic. As we have crossed the swelling ridges of these three distinct and separate spurs or mountain ranges in the hundred miles from the Uncompahgre to the Cochetope, we have looked off to the north into the great basin of the Gunnison, a bowl-like park a hundred miles long from west to east, and nearly as much in width. In the centre of this vast basin flows westward the Gunnison river, while from the sides pour down the waters of the Uncompahgre, Lake Fork, the Cebolla, the Cochetope, and numberless other rivers, creeks and brooks, abounding in speckled trout, while the adjacent woods are alive with deer, elk, bear and other game. Beyond this great basin are the Elk mountains, of enormous height, striking ruggedness and



BEAR CREEK.

most unique and singular appearance. They differ from any other mountains on the globe because of their peculiar colors and strange forms. In the very front rank of the amazing array of peaks is Teocalli Mountain, a vast pyramid in bulk and form, showing the strange features of successive terraces, rising one above another, with cliff faces and level benches. The form is like the ancient sacrificial altars of the Aztecs — called by them "teocalli," hence the name. Teocalli is approached by a lovely open grassy valley, with a pretty little creek, deeply fringed with trees, running through it and dividing at the foot of the mountain, a branch pouring down from each of its sides. Viewed in the bright sunlight, the wilderness of pyramidal cones glow in red, yellow, brown, and deep maroon, and on the northern and eastern slopes are the largest known fields of perpetual snow in all the Rocky Mountains. From Cochetope we journey down the water-shed along the trough of the Saguache thirty miles, into the town of Saguache, and where the river debouches into the wide, level expanse of San Luis Park, in which it has pushed out and built up a delta of unexcelled fertility.

At Saguache we again mount one of the roomy, easy-riding buckboards of the Barlow & Sanderson line. Leaving at 11 A. M., we dine at Kirby Creek, 20 miles distant, at 3 P.M. Although we have been riding for hours over the broad, level plain of San Luis Valley almost directly toward the Sangre de Cristo range, at dinner the monstrous mass of frowning rock appears hardly any nearer than when first we started. Away down to the right, grim and solemn, looms up Mount Blanca, and from its proud place at the very head of the range the eye follows back the wonderfully regular succession of snow-covered crests to a point directly in front, and then turning to the left the same stupendous regularity continues beyond the power of sight. No foot-hills intervene; the mountain chain rises abruptly from the bosom of the valley, and is infinitely grand and imposing. On we go still toward the range, and at early sunset commence the ascent of Poncho Pass, a long, easy slope, through quaking asps and silvery spruce, to the summit, 9,500 feet. Now comes the sharp descent through the cañon-like walls of Poncho creek and amid picturesque groupings of rock, foliage and trees, that become more and more striking as the walls grow higher and higher.

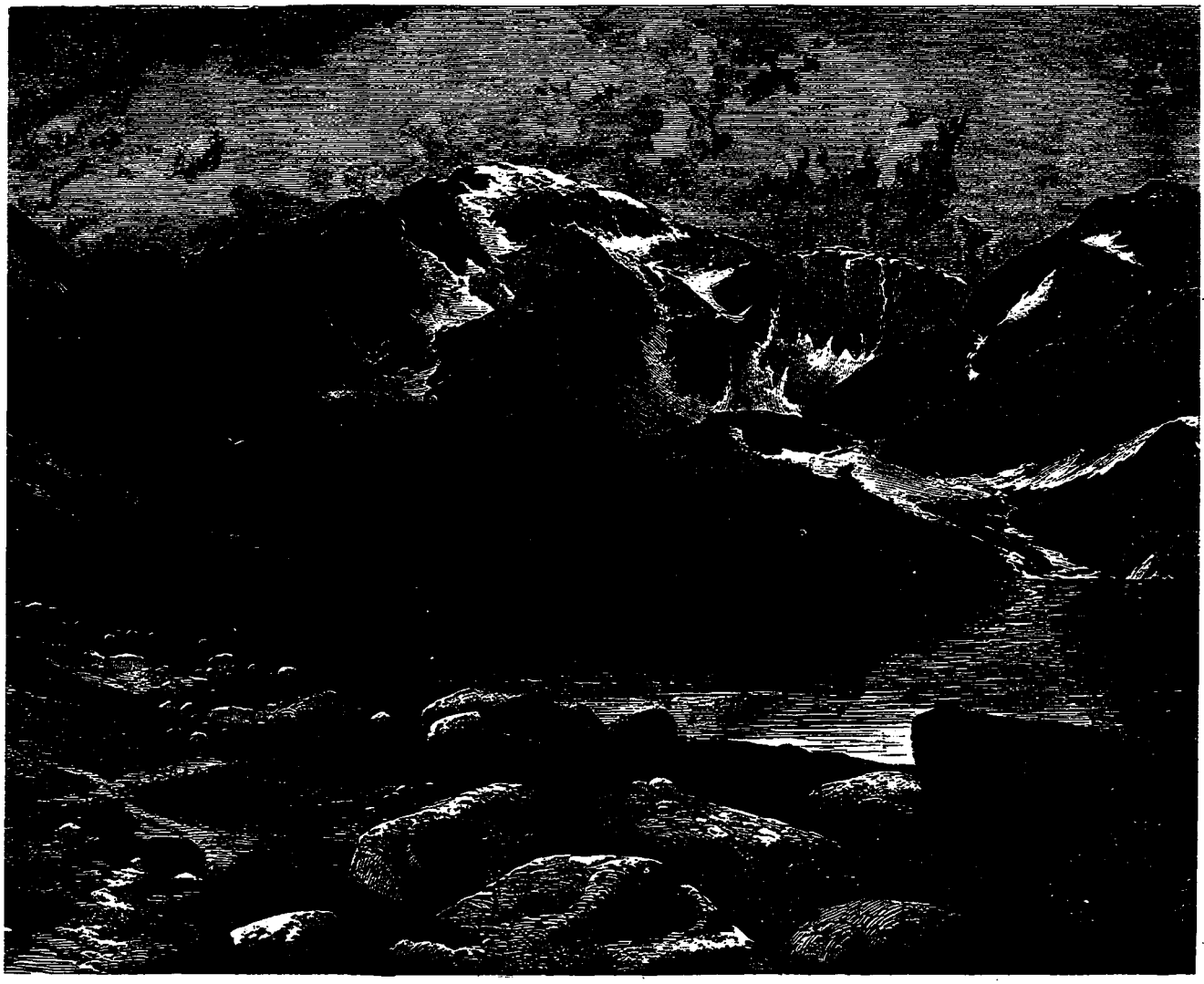
The night soon shuts us in within ourselves, and at 9 o'clock we dash up before the broad and brilliantly lighted portals of Bales, having crossed the Sangre de Cristo range and accomplished 48 miles since 11 o'clock.

If so desired, we could from this point reach Cañon City in a day's ride by buckboard, distance, 61 miles, but our route is in the opposite direction, and objective point Manitou, via South Park and Fairplay. Leaving South Arkansas immediately after breakfast, we bear north, following the valley of the river through a very pretty and open country, which laps around South Park on the south and southwest to Centerville, 18 miles from our starting point, and two miles south of the mouth of Chalk Creek, ten miles up which is the miniature town of Alpine, the centre of the noted mining district taking its name from the creek. Half way to Alpine are several hot springs of much mineral virtue, their immediate vicinity being a favorite camping ground. Crossing Chalk Creek, a few moments' ride brings us to Trout Creek, and keeping on to its head, we come upon Chubb's ranch, 33 miles from South Arkansas, and at the summit of the Park range divide, and an elevation of 9,500 feet. Off to the west are the snow-covered peaks of the Collegiate group of mountains, Harvard, 14,383 feet; Yale, 14,101 feet; Princeton, 14,192 feet; and south of these, Antero, 14,245 feet; Sharano, 14,239 feet; while shadowy in the dim distance is rugged old Ouray, 14,043 feet. On we go across the broken country of the foot hills of the Park range, to the Arkansas river again, to a point locally known as Leonhart's. From here we closely follow the river to Granite, where we find a comfortable, well kept hotel, and the rate per day $2. Coming in from the west, just opposite, is Lake Creek, one of the chief affluents of the Arkansas, and from three to eight miles distant are the famous Twin Lakes. They have evidently been formed by the damming of the stream by immense avalanches of rocks and earth that came down the adjacent mountains; the lower lake about three and the upper nearly two miles in length, and their respective width about two-thirds the length. The two bodies of water are separated by a narrow strip of billowy land, studded with little groves, clumps and individual trees, and which in time is cut in two by the creek in its course from the upper to the lower lake. The stream is here more than a hundred feet in width, and from two to three feet in depth. The water in the lakes has been sounded to a depth of a hundred feet. The exquisitely beautiful and perfectly transparent sheets of water are bordered by open and grassy slopes, alternating with rolling hills covered with tall and stately pines. Beyond are high mountains, densely wooded, along the south shores extending to the very edge of the water, while on the north side they are a half mile or more away. In the distance on the left is La Plata mountain, altitude 14,302 feet, with a range of lofty mountains to its right that mark the course of the creek on its south side, and rise step by step to the summit of the main range. To the right of the lakes is Mount Elbert, 14,326 feet altitude, one of the loftiest peaks in the state, and among the easiest of ascent, horseback parties making it and the return to the base the same day. There are no more beautiful places to camp in all the country, no grander spots for fishing or more exciting fields for hunting, than here, and owing to the great altitude of the lakes, 9,357 feet above the level of the sea, the summer temperature is never oppressive. A most enjoyable trip from camp at Twin Lakes is directly west up the creek to the summit of this the loftiest and most rugged section of the Rocky range. It is only fifteen or sixteen miles, and every rod of the way presents new and growing attractions. A mile above the upper lake we come into full view of the falls, where the stream plunges down a hundred feet, and just below is a natural bridge, and between it and the foot of the cascade is a crystal pool of

profound depth wherein hundreds upon hundreds of trout flash their brilliant sides in sunlight and shadow. As we ascend, the country becomes more and more wild; the mountains leave no room except a narrow gorge; the stream plunges over dykes of granite or foams among a world of gigantic boulders. Ice forms every night, and snowbanks rest in the shadows through all the summer days. At the head of the middle fork of the main stream is Grizzly Peak, over whose monstrous, massive sides we make our way with little or no difficulty. It was so named, one August day some years ago, by a party who roused up, as they climbed the slope, a large grizzly bear, that at once took refuge upon a cake of ice drifting about in a half-frozen lake. A little farther the party started up five more, so they called the peak Grizzly.

Once at the summit, a vast and magnificent panorama presents itself. Directly west is the wide and lofty face of Snow Mass mountain, the greatest unbroken summer snow-field in Colorado. Around it are all the rugged peaks of the Elk mountains. To the right, dim in the distance, is Soper's peak. To the left, the eye follows down the snowy valley of Taylor river away into the broad park of the Gunnison, and beyond to the misty outlines of Uncompahgre Peak, standing like a sentinel over ground made familiar by our journey from Ouray to Saguache. Southward, along the serrated crest on which we stand, are the silvery crowns of Mounts Yale, Harvard, Ouray, and a score of others; northward, a similar chain, with Massive Mountain in the foreground. Retracing our steps to the foot of the creek, we may follow up the south branch and over the range by a very lofty pass, to Taylor river and splendid trout fishing. We may go even farther, to the Elk mountains and their rivers and mines, or down into Gunnison Park, among its farms, ranches and coal fields. From Twin Lakes is the best route to the Mount of the Holy Cross, made famous throughout Europe, as well as our own country, by the artistic triumphs of Thomas Moran with it as his subject, and one of whose grandest drawings will be found in this work. The way is directly up the Arkansas to its head, through delightful meadows and impressive open forests; over the summit of the main range at Tennessee Pass, and down the course of the Roaring Fork of Grand River. The direction is a little west of north, and you will call the distance 75 miles, at the least. But it is through a most interesting country, of the wildest description, and abounding in game and fish. Once at the foot of the great mountain, if you decide to go to the summit, count upon ten miles of climbing on foot through a wilderness of fallen timber and brush, over rocky wastes and amid melting snow banks and torrents of icy water. But, whatever may be the hardships, the hunger and the toil, the trip once made will never be regretted. Prof. Whitney, of Yale College, made the ascent a few years ago, and from actual observations he gives the measurement of the perpendicular arm of the cross at 1,500 feet in length and 50 feet in width, the snow lying in the crevice 100 feet deep. The horizontal arm varies with the seasons in length, but averages 700 feet. The return from the visit to the Mount of the Holy Cross may be down over the same route, or a way can be found through the Blue River Mountains to Middle Park and thence to Denver.

Returning from Twin Lakes we enter the main road three miles north of Granite, and find ourselves in an open park-like valley sloping very prettily from the foot-hills. Keeping on we reach Tennessee Park, 3 miles in width in places, and a general elevation of 9,500 feet. At the head



THE HIGHEST BODY OF WATER ON THE CONTINENT.

of the Park, and where California Gulch comes in, is Malta, 17 miles from Granite; 3 miles beyond is Leadville, and 3 miles farther Oro City, these three towns or camps constituting the leading centres of the celebrated mining region of California Gulch. Following up to the head of the gulch we are at the summit of the Park Range, 12,700 feet altitude, where the trail crosses it. Here is Buffalo Peak, and near by the main range, with grand old Mount Lincoln looming up to an altitude of 14,296 feet. Twelve miles from its base is the town of Fairplay, with Dudley half way between. There is an excellent way or road almost to the very summit of Mount Lincoln, and we find the ascent intensely replete with glorious visions. From our lofty position we have a most magnificent and comprehensive view of crescent-shaped South Park, 90 miles in length, and fully half that in width. It is drained by the South Platte, which flows outward from the eastern edge, its tributaries branching out like the leaves of a fan, with the main river as the handle. With the single exception of North Park, South Park is the most elevated of all the parks in the state.

These almost numberless grand trips open to the tourist with South Park as the objective point, and with the start from Cañon City, Colorado Springs or Manitou, the line of the route may be determined upon at the beginning, or left to chance or the pleasure of the party.

From Fairplay we take the commodious and comfortable stage on the regular line run by the Northwestern Stage Company between here, Manitou and Colorado Springs, the latter named point 80 miles distant, fare $10. Intending to stop over at Manitou, our ride is shortened six miles, and is through a glorious country, ending with Ute Pass, at the foot of which Manitou nestles in all its mountain loveliness. The stranger to Manitou's rank as the most fashionable of all Rocky Mountain resorts, is surprised at the dimensions, architectural beauty and elegance of its leading hotels. The Manitou House has 80 rooms and 15 cottages, and can comfortably accommodate 200 guests; rates $3.50 to $4 per day, $15 to $21 per week according to location of rooms. Winter rates $3 per day, $10 to $15 per week. The Beebe House has 75 rooms, and can accommodate 100 to 125 guests; rates $4 per day; week or more $3 per day; open from the 15th of May to 1st of October. The Cliff House has 50 rooms, rates $2 to $3 per day, and by the week in proportion. All three of the hotels named, as well as the smaller, and boarding houses, make special rates to families remaining for a month or more. The Garden of the Gods is 2 miles from Manitou, Balance Rock 1 mile, William's Cañon ½ mile to entrance, Monument Park 9 miles, Cheyenne Cañon 9 miles, Ute Pass ½ mile, Rainbow Falls 1¼ miles. Manitou is directly at the foot of Pike's Peak, and formerly by the old trail it required two days' time to reach its summit, the night being spent at the Half-Way House. By the new trail it is now made in one day, the grade the entire 10 miles being comparatively easy. The livery rates at Manitou are for saddle horses $2.50 for full day, $1.50 for half day; buggies $3 for half, $5 for full day; double carriage $8 per day for seats for four, $10 for seats for six, and half these rates for half day rides. The ascent of Pike's Peak costs $7 for horse, $1 toll, $1 or each meal, and same for lodging, it requiring two days to make the trip, one going up and one returning.

CATHEDRAL ROCK. GARDEN OF THE GODS.

Manitou is very gay during the summer season, the hotels vieing with each other in the way of balls, soirees, amateur theatricals and the like, and evenings when amusements of such character are not offered, excellent bands regale guests with choicest music, while the grand broad piazzas about the hotels afford most delightful opportunities for promenading. The three leading houses have billiard rooms and bowling alleys attached, and in the enjoyments of which ladies take as general part as gentlemen. The drives about Manitou are charming, the roads being kept up in splendid style; and an animated rivalry existing among liverymen, the equipages to be had at the rates already given are of the most elegant character, the horses in many instances being far superior in style and gait to the general run of liveries in the great cities of the East. The same is true of Colorado Springs, which is only six miles from Manitou, and the two places are nearly one so far as attractiveness is concerned. The grand gateway to the Garden of the Gods is 3 miles from Colorado Springs, Cheyenne Cañon 5 miles, Glen Eyrie 4 miles, Ute Pass 6 miles, Monument Park 8 miles, William's Cañon 6 miles, Crystal Springs 1½ miles, Pike's Peak, base 5 miles, top 17 miles. While Manitou, nestled in the mountains, is the fashionable resort *par excellence* of the state, Colorado Springs, upon an open plain-like plateau, is the most beautiful city in the West, and the second in commercial importance in Colorado. Its streets, broad, and very boulevards in their smoothness, are lined on either side by trees of wonderfully even, symmetrical and luxurious growth, the streams of limpid water ever running at their base giving them life that delights the eye, and enhances the charms of the city beyond description. All over the large area within corporate limits, upon business streets as well as the avenues given over to elegant residences, are these long rows of trees, the secret of their rich and graceful growth lying in the fact that the municipal government has not only enacted the most rigid ordinances relating to their preservation, but through its own superintendent has exclusive care of them. Colorado Springs is the most popular winter resort for invalids in the state,

GATEWAY TO THE GARDEN OF THE GODS.

while during the summer season it vies with Manitou in gayety. It has two excellent hotels, the Crawford and the Exchange, both kept by the same gentleman, who contemplates erecting this season a large and elegantly appointed house with every modern convenience. The two hotels face upon a spacious and perfectly-kept public plaza, at the base of which runs the track of the Denver & Rio Grande railroad, and leading to the depot is a broad, tree-lined avenue with rustic seats temptingly placed under the branch-entwined canopy. The hotels have 85 rooms, with ample accommodations for 125 to 150 guests. The rates are $3 per day, $10 to $15 per week, and similar proportion by the month. There are two of the largest and best appointed liveries in all the west at Colorado Springs, the prevailing rates being the same as those quoted at Manitou. For a general drive, such for instance as for four or more people via Glen Eyrie, Queen Cañon, Devil's Punch Bowl, Garden of the Gods, Manitou, Ute Pass, Iron and Soda Springs, $2.50 each, Cheyenne Cañon and Falls $1.50 each, Monument Park $2 each, this being understood as with or without a driver. The Northwestern Stage Co. runs its regular line from Colorado Springs via Manitou to Fairplay, 80 miles, and Alma 90 miles.

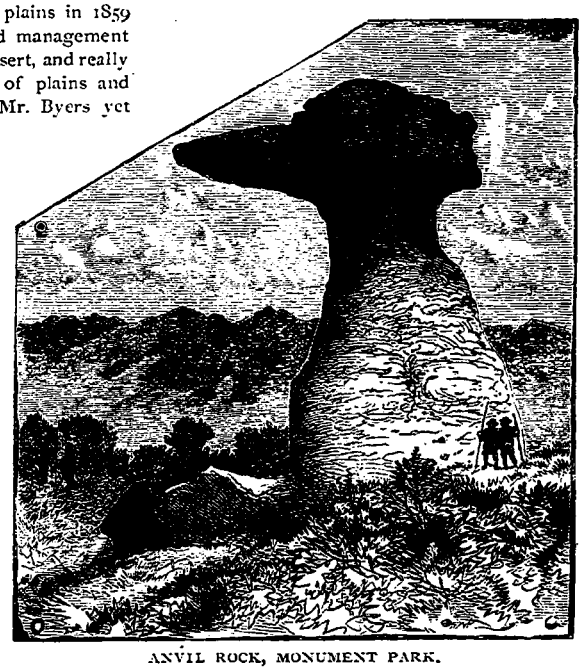
The natural attractions around Manitou and Colorado Springs are of the best known in all the Rocky Mountain region, and so readily accessible by rail, are annually visited by thousands of people.

The trip over the Denver & Rio Grande road from Colorado Springs to Denver is a really enjoyable one, replete as it is with scenery abounding in most picturesque effects. A few miles from the springs we pass over the foot of the little grassy gulch leading out of Monument Park, and as the train glides on we catch glimpses at rapid intervals of the queer, old figures in stone that render this section so interesting to geologists. Nearing the divide, the crest of which we surmount at an elevation nearly 2,000 feet higher than Colorado Springs, a ponderous mass of bright yellow rock suddenly shoots out from the rich field of foliage, and stands alone in its impressive dignity. It must be fully 75 feet in height, and 50 feet in diameter, and the contrast between the clear yellow of its rounded sides, the rich green of the foliage, and vivid red of the huge mountain serving as the background, is so strangely attractive as to picture it deep upon the mind. Farther on are more monuments in plain view from the train, and the mountain sides growing deeper and deeper in shades of carmine produce effects of wondrously attractive character. Soon the red gives way to yellow in hillside and foreground, and for miles we ride on with eyes fixed intently on the rocky ledges that every moment assume new shapes and suggest new fancies.

Denver reached, we are instantly recalled to a vivid sense of the present, the cries of the 'bus men, the importunities of the hackmen, and the helter skelter bustle incident to the hurrying to and fro of a depot full of passengers rapidly dispelling all the thoughts of the past, and forcing us to look for ourselves in the general scramble. Denver is the metropolis of the far west, a gay, brilliant and beautiful place, with broad tree-lined boulevards, palatial mansions, grand hotels and stately business blocks. At all seasons of the year it is the brightest, cheeriest and busiest of cities, the mining, farming and commercial interests generally centering here as naturally as do the gayeties and grandest events of social life. Denver is often called the Paris of the mountains, and one has to remain here only a day or two to appreciate the aptness of the term. The really excellent

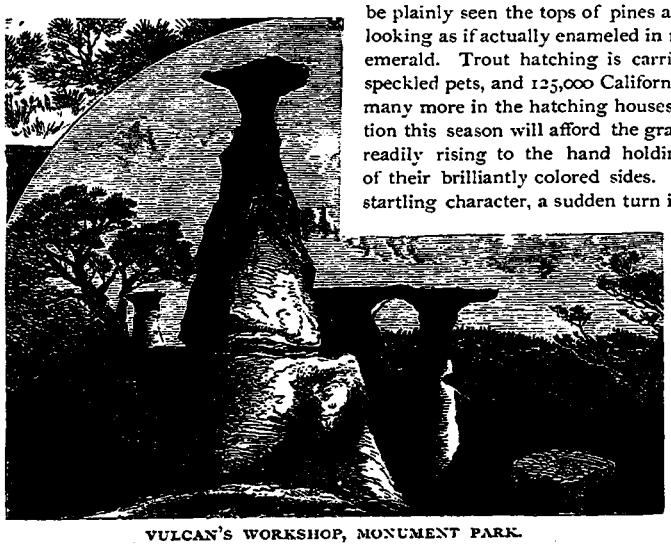
UTE MEDICINAL, MONUMENT PARK.

hotels here are almost too numerous to enumerate. The Grand Central has 100 rooms, with accommodations for from 150 to 175 guests ; rates $3 per day, $15 to $21 per week, according to location of rooms, special rates being made for families remaining any length of time. The American and Inter-Ocean are under the same proprietorship, and are located on corners diagonally opposite; the American has 140, and the Inter-Ocean 70 rooms, and the rate per day at either is $3, per week $12 to $18. The Wentworth has 75 rooms, $2 per day, $10 to $14 per week. Alvord 60 rooms, $2 to $3 per day, $8 to $15 per week. Bay City 40 rooms, $2 per day, $7 to $10 per week. Day board runs from $5 to $7 per week. Rates for livery are $2 per day for saddle horses, $3 for single buggy,— $2.50 half day — double carriage $3 per afternoon, or $5 per day, carriage with driver $3 to $5 for the afternoon. This city is justly famed for the elegance of the equipage to be had at any of the first-class liveries, and no city in the Union can boast of more delightful drives. Denver is beyond all comparison the grandest centre in the Rocky-Mountain region for all-rail tours to noted points. Idaho is 40 miles distant, Georgetown 52 miles, Central City 38 miles, Black Hawk 36 miles, Golden 16 miles, Boulder 43 miles; all these places being reached by the Colorado Central railroad, and the trains running on such time schedules that one can leave here in the morning for any of the points named and return the same evening. The Denver & South Park road is being rapidly constructed through Platte Cañon, and its trains have been running to Boulder for some time. The press of Denver deservedly ranks very high, the *Rocky Mountain News*, the *Tribune*, the *Times* and the *Democrat* forming a quartette of daily papers that no city in the Union of twice the population of this can boast of. The *News* has been closely connected with Denver's history from the very beginning to the present time, its presses and material having been hauled across the plains in 1859 by ox-teams. It has been from the beginning, and still is, under the control and management of Hon. Wm. N. Byers, who brought its first press across the Great American Desert, and really in so doing risked the first important venture in the undeveloped wilderness of plains and mountains which now constitute this prosperous and glorious young state. Mr. Byers yet spends much of his time among the mines, especially in the newer portions of the state, and his clear and comprehensive writings as to their worth and extent have tended greatly to the encouragement of their development.



ANVIL ROCK, MONUMENT PARK.

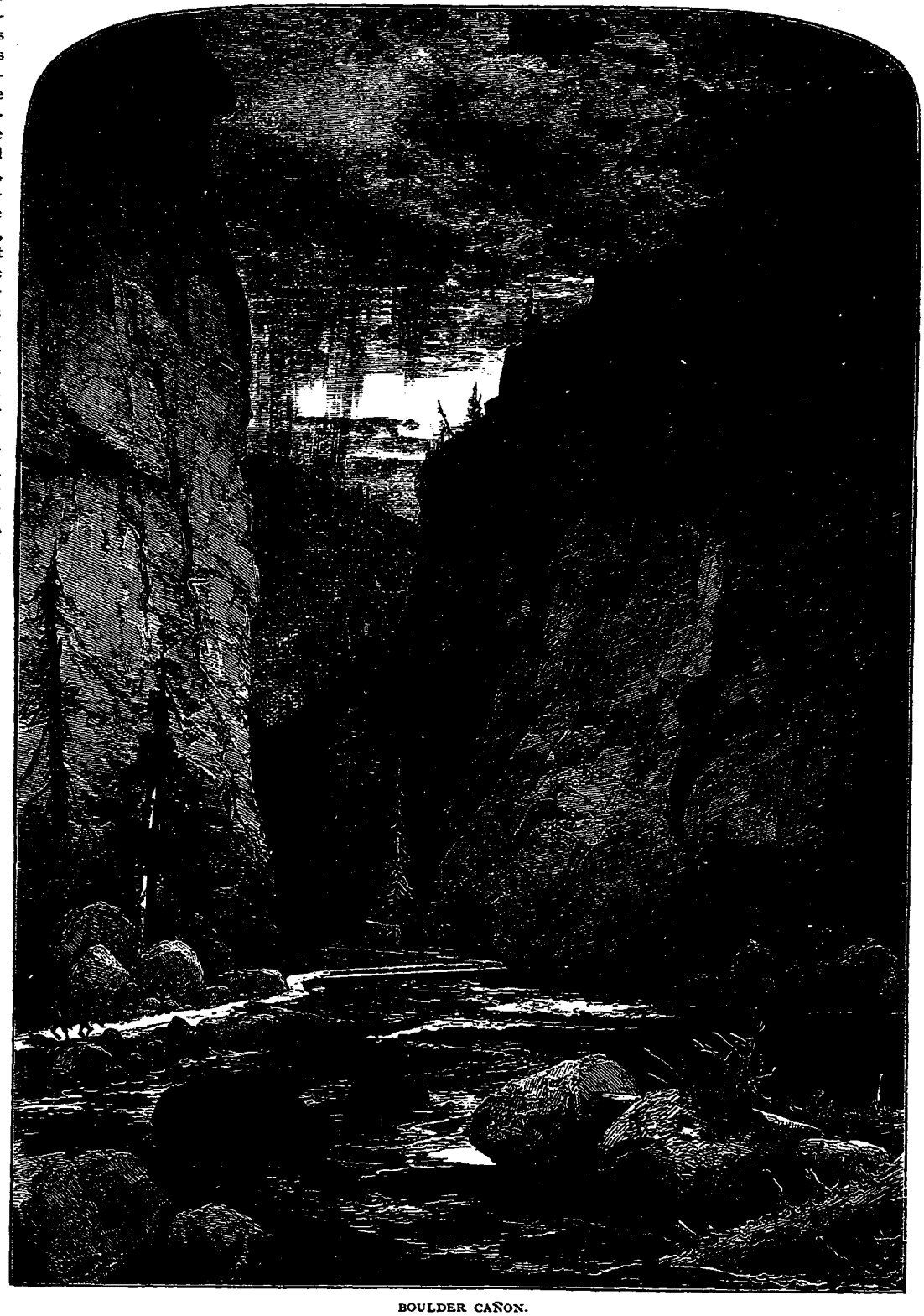
Leaving Denver at 7 A.M. we change from the full gauge to the narrow gauge cars at Golden, and are soon winding in and out among the towering walls and wildly picturesque gorges of Clear Creek Cañon. We pass the junction point where the trains destined for Black Hawk and Central City diverge; stop at Idaho for water, and then push on for Georgetown nestled under the shadow of mighty mountains, and 8,400 feet above the level of the sea. The town itself bears the indications of thrifty, prosperous growth, not only in its stores and business centres, but in its hotels, its private residences and public buildings. The Barton is an exceedingly attractive and elegantly appointed house, and has accommodation for 100 guests; rate per day $3, per week $15 to $21. Rates of the American and the Phelps are $2 per day, $8 to $12 per week. Livery hire, carriage and driver to Green Lake $5, Gray's Peak by saddle horse $4, by carriage 9 miles, and then by saddle to summit $10 to $12 for party of two or four. Argentine Pass $8. The trip to Green Lake is one of no little novelty, there being an ascent of nearly 1,800 feet in two and a-half miles. The lake is upon the very summit of a mountain at an elevation of 10,500 feet, and covers an area an eighth of a mile in width, and a quarter of a mile in length, that was once the densest portion of these forest-clad heights. The greatest depth of the water is about eighty feet, and forty feet beneath its perfectly translucent surface can be plainly seen the tops of pines and first looking as if actually enameled in richest emerald. Trout hatching is carried on very extensively at the lake, there being now 150,000 of these speckled pets, and 125,000 California salmon within the confines of its waters, while there are almost as many more in the hatching houses. No fishing has as yet ever been permitted in the lake, and its inauguration this season will afford the grandest of sport. At the feeding wharf the fish are exceedingly tame, and readily rising to the hand holding a bit of meat, make the water fairly sparkle with the reflection of their brilliantly colored sides. The ride back from the lake is one of a novel, and at times decidedly startling character, a sudden turn in the precipitous road showing Georgetown fully a thousand feet below, and creating a sensation similar to what it must be when hanging over a city in a balloon. Down, down, winds the road until the level of the town is reached, and looking back it almost staggers belief that but a half hour before we were upon the crest of the wall now so dark and frowning in its great height. To Gray's Peak is another grand trip, and when at its summit we stand 14,341 feet above the sea, with a hundred miles of the snowy range to the north and to the south, the gloomily-serrated and splintered peaks of the Blue River range to the west, and the illimitable plains to the east. The summit of Argentine Pass, 13,000 feet altitude, can be reached in five or six hours by carriage, passing through Devil's Gate and the noted Silver Plume mining district. A regular line of stages run from Georgetown to Hot Sulphur Springs in Middle Park, the journey being of one day's duration, and made as it is via Berthoud Pass, 11,350 feet, and James Peak in full



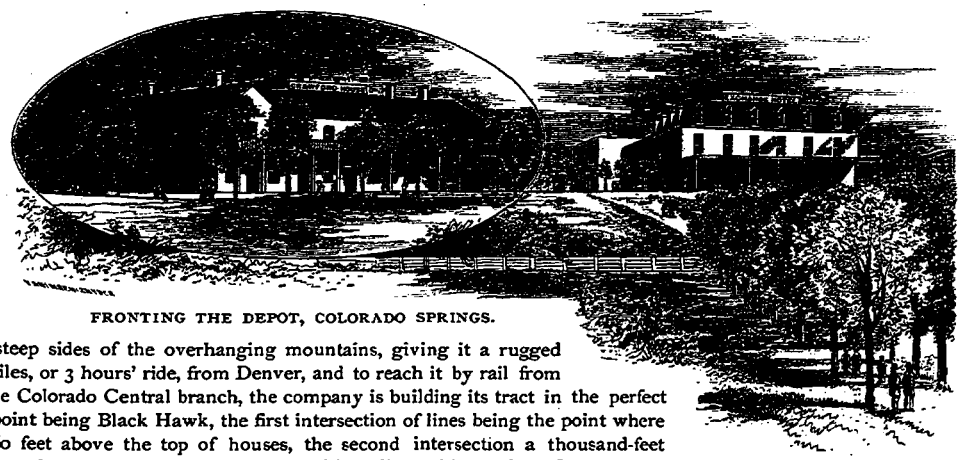
VULCAN'S WORKSHOP, MONUMENT PARK.

sight at the head of the Park, is truly one of grandest surroundings, amazing vistas and savage wildness. With Hot Sulphur Springs as the centre one can make many delightful excursions in Middle Park, visits to Grand Lake, the ascent of the Rabbit-ear Range, the tour of the great cañon of the Grand, the hunting fields of Whitely Peak and Lone Range, and the fishing grounds on the Troublesome. If desirable, the way can readily be made by Roaring Fork to the wildest hunting grounds on the continent, across the Blue Range to the head of Ten-Mile Park, and so down to the Blue, and out either by Argentine Pass and Georgetown, or by Breckenridge Pass and South Park. A little farther will embrace in the trip the Mount of the Holy Cross, and from the springs North Park may be reached in a day.

An early departure on the return trip from Georgetown, and a run of 12 miles brings us to Idaho, charmingly located in the lap, as it were, of the Chief, the Squaw and the Pappoose mountains. Idaho, with its celebrated springs, its cosy cottages and delightful drives, is one of the most popular resorts in the state. The Beebe House is a model of taste and neatness, and with its surrounding cottages, pleasure grounds and the like, forms a little hamlet within itself. There are accommodations for 100 guests, and the rates per day are $3, and in similar proportion per week, special arrangements being made with families remaining for the season. Livery rates run from $3 per day for saddle horses, to $6 and $8 per day for carriages, with or without driver. It is 10 miles from here via York Gulch to Central City, and 6 via Virginia Cañon; Chicago Lakes 15 miles, 8 by wagon and 7 by trail. To Central City via York Gulch for party of four or more, $8, via Virginia Cañon $6; to Chicago Lakes, $12. It costs about as much for two as four, but it very often happens that parties combine, and in this way the expenses of carriage trips are much lightened. To the ambitious tourist desiring a spice of adventure, and a taste of genuine roughing it, the three days'—it may be crowded into two—jaunt horseback to Chicago Lakes is simply glorious, including as it does as rough riding, as steep climbing, and as wild scenery as can be found anywhere in Colorado. The main lake, in its altitude of 11,500 feet, is the highest body of water on the continent, and Mount Roascalie near its head is 14,340 feet above the level of the sea.



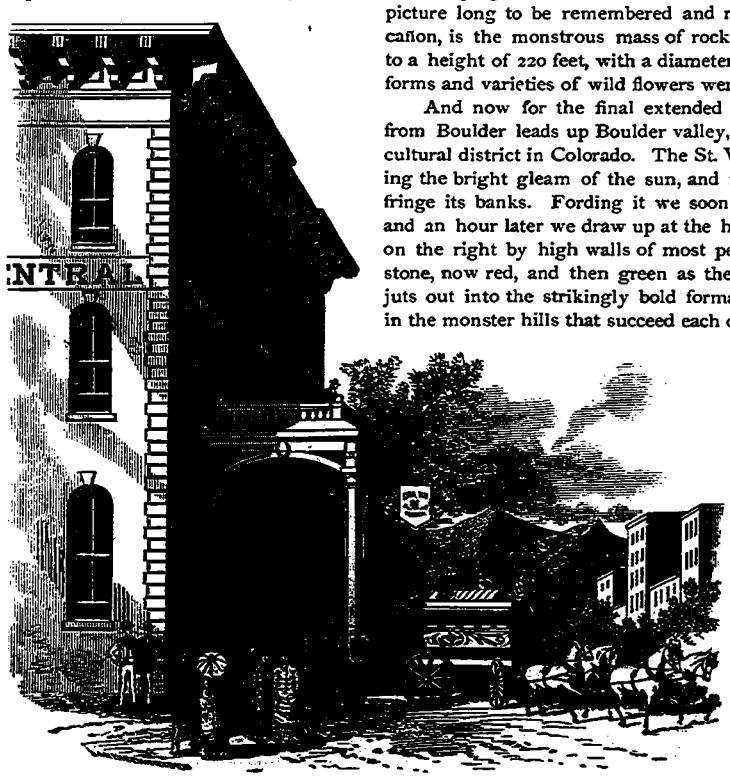
BOULDER CAÑON.



FRONTING THE DEPOT, COLORADO SPRINGS.

From Idaho we cross over to Central City via Virginia Cañon, an exceedingly pleasant trip of decidedly Alpine character, arriving at our destination in time for dinner. Central City, with Black Hawk at the foot of the gulch two miles distant, constitute the centre of one of the largest and most important mining districts in the state, the famous Bob-Tail mine, which made U. S. Senator Chaffee a millionaire, being situated between the two places. Central City is a typical mountain town, its elevation 8,300 feet, and streets upon the steep sides of the overhanging mountains, giving it a rugged look far from monotonous. It is 42 miles, or 3 hours' ride, from Denver, and to reach it by rail from Black Hawk, the present terminus of the Colorado Central branch, the company is building its tract in the perfect form of an "N" backward, the initial point being Black Hawk, the first intersection of lines being the point where the road passes over the main street, 60 feet above the top of houses, the second intersection a thousand-feet switch upon which the train will back in order to be thrown over to the third long line, which ends at Central. The distance is 4 miles by rail to overcome a mile and a-half in an air line, and the total grade is 580 feet. The Teller House at Central City has 110 rooms, day rate $4, week $15 to $20, and for longer time special rates are made. At the Granite the day rate is $2.50 and at the smaller houses $1.50 to $2. Central City, Black Hawk, and Nevada are three towns in one. At Black Hawk are the extensive milling works presided over by Prof. Hill, the production the past year having aggregated $3,000,000.

From Black Hawk we take the narrow gauge to Golden, where changing to the full gauge cars of the same company — the Colorado Central — a ride of an hour and a half brings us to Boulder, the seat of an extensive trade, not only with mining, but with agricultural regions as well. The town is at the foot of the noted cañon whence its name is derived, and is a thriving, busy place. The Brainard is the principal hotel, having accommodations for 75 guests; rate from $2 to $3 per day, according to the room; $10 to $15 per week. There are several smaller houses, averaging $2 per day, and from $8 to $12 per week. Regular lines of stages run from Boulder to Caribou, 22 miles; Gold Hill, 12 miles; Sunshine, 6 miles; Salina, 8 miles; Springdale, 10 miles; Estes Park, 45 miles, and Central City, 35 miles—it being quite a favorite route, via stage through Boulder Cañon, instead of returning to Golden and thence to Central, all rail. Livery rates are $1.50 to $3 for saddle horses, according to distance; phaeton and single horse, $3 for afternoon; double team, for two, for drive to Boulder Falls, $5; to Dome, for four, $6; Boulder Cañon, $5. No extra charge is made for driver where the trip is not in excess of a single day's ride. For parties to Estes Park, the rate is $5 each, this including 50 lbs. of baggage, a charge of 1¼ cts. per pound being made for extra baggage; this covering driver's expenses. When party has special team the charge is $6 per day, and the keep of team and driver, if latter is taken. For four or five days' use of team, lower rate is made. Estes Park cannot well be made in less than three days' time: one day going, one day there, and one day returning. The drive up Boulder Cañon is the grand short trip from the town, and can occupy an entire or only a portion of a day. The walls are wonderfully high and rugged, and the profusion of foliage renders them exceedingly picturesque. And, finally, when we alight from the carriage to make the short run on foot up a side cañon, to stand under the falls, we confess that nowhere have we beheld grander effects. The great volume of water plunging over monstrous boulders to the depths 200 feet below, the sunlit mist, the wild gorge, the dense thicket, and high over all the lofty spires of red, green and black, forming a picture long to be remembered and recalled. Some four or five miles above the falls, and in the main cañon, is the monstrous mass of rock known as the Dome, it shooting up from the side of the road to a height of 220 feet, with a diameter of 400 feet at its base. On this same trip thirty-six different forms and varieties of wild flowers were gathered, the way being literally strewn with them.

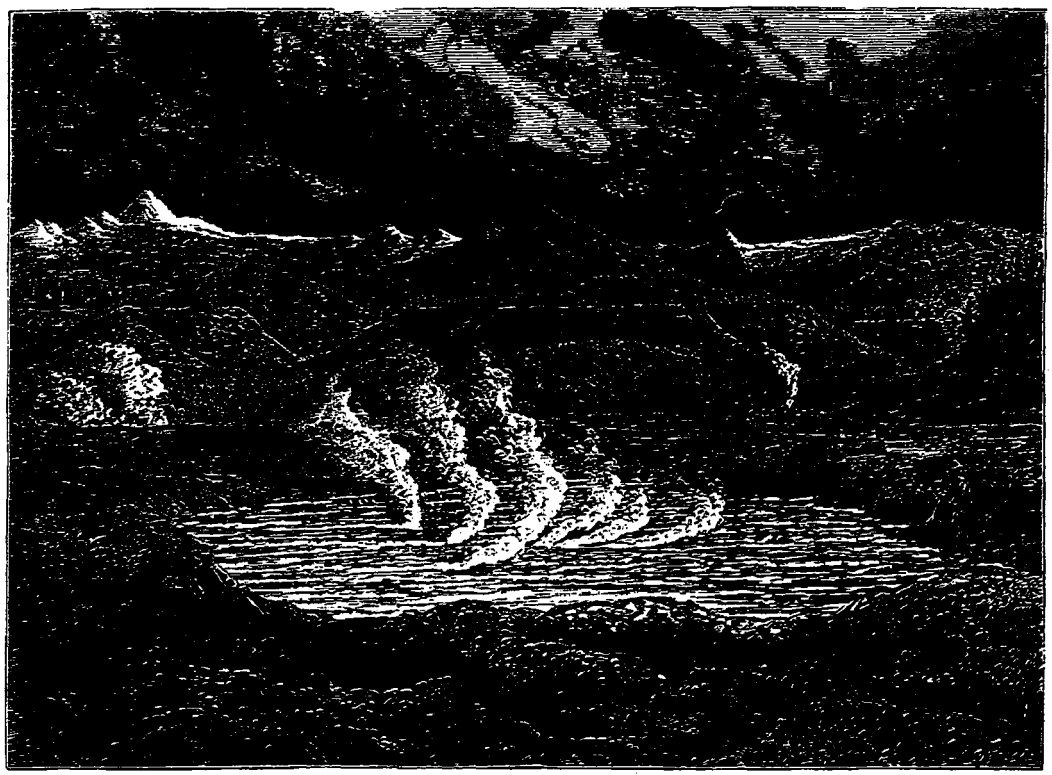


IN DENVER.

And now for the final extended trip of our tour, that to Estes Park, 45 miles distant. The way from Boulder leads up Boulder valley, and until the St. Vrain river is reached, through the finest agricultural district in Colorado. The St. Vrain is a noble stream, broad and placid, its pearly depths reflecting the bright gleam of the sun, and mirroring to the most exquisite detail the trees and bushes that fringe its banks. Fording it we soon reach a point where cañon features are much more suggestive, and an hour later we draw up at the half-way house, on the bank of the St. Vrain, which is now skirted on the right by high walls of most peculiar formation, being in perfect layers of huge square blocks of stone, now red, and then green as the sward over which we have just passed. At one end this ledge juts out into the strikingly bold formation known as Steamboat Rock, while the other end loses itself in the monster hills that succeed each other like mighty billows of a frenzied ocean. An excellent dinner, the team fed and watered, and our way is onward and upward, the scenery growing grander and wilder, the road climbing Moose Hill at a grade of 500 feet to the mile, and rushing down into Elk Park upon the other side. Now we are within the towering, close walled 8 mile cañon; the trees, the bushes, the vines and the flowers so wondrously profuse, that we appear to be almost enveloped in them. Emerging from one cañon only to plunge into another, we finally cross the divide into Muggins Gulch and glide down its gentle slopes to its foot, where bursts upon our view the magnificent mountain-bound and tree-studded expanse of Estes Park. To the left is the cloud-crowned head of Long's Peak, in the centre is McGreggor Mountain, and on the left Mount Olympus. Immediately in front is the Park, with the crystal waters of the Big Thompson running like bands of silver over the velvety green of the lawn-like slopes, while here loom up great solitary towers of solid rock, and there symmetrical clumps of pine, spruce and fir. At the entrance to the Park is Lord Dunraven's picturesque cottage, four miles to the left the hotel upon which his lordship expended $25,000, and three

miles directly ahead McGreggor's most romantically situated and cosy home, with its outlying cottages, stables and sheds. McGreggor's is our destination, and a sharp trot of a half hour or less over the splendid road, lands us at his hospitable door. He has accommodations for from 35 to 40 guests at $2 to $2.50 per day, and $10 to $15 per week; parties of two or more occupying cottages by themselves within easy walk of the dining hall, which is a building erected expressly for the purpose. Lord Dunraven's hotel, known as the Estes Park House, is really an elegant place, furnished in very handsome style, charmingly located, and with billiard room attached, affords every opportunity for an enjoyable sojourn. There are ample accommodations for 50 guests, and the rates are $3 per day, or from $15 to $21 per week. There are almost innumerable brief or extended tours, with Estes Park as the central point, and the hunting and fishing exceedingly good. The view of Long's Peak from McGreggor's house is indescribably grand, and one never tires in watching the cloud effect at its summit, which is one of the loftiest in the state, 14,271 feet.

One of the grand drives from Estes Park is to Cascade Park, where there is one of the most bewilderingly beautiful series of cascades the eye ever fell upon. Another delightful drive is to the grand cañon of the Big Thompson; this, as well as that to Cascade Park, to Lily Lake, to Lily Falls, and many, too many other points of wonderful beauty to mention, being trips of but a day's duration, and one as different from the other in striking scenes as possible to imagine. The tour up Black Cañon should not be confined to less than two days, for it is one of the most varied and remarkable open to the tourist within Colorado's confines. The first two miles can be made in a carriage, but the best plan is to take saddle horse at the start. From the entrance proper the way is by a trail made years ago, when the Indians packed their traps over it to North Park. A mile or two through the blackened and charred trunks of a fire-destroyed forest, and then we work upward into a dense growth of yellow pine, and thence into a forest of white pine, the like of which we have not seen in all our travels. The trees are evidently of uniform age, for each trunk is almost of exact size, each tree rises clean cut and wonderfully symmetrical to a height of fully seventy feet before it puts forth barest vestige of leaf or branch and then the boughs spread out in bounteous profusion of foliage, interlace and entwine until the canopy overhead is so dense that the rays of the sun rarely penetrate; hence the name Black Cañon. There is no pitch trickling down the beautifully rounded trunks, no rugged seaming of bark or incrustation of moss, nor is there underbrush or scraggy outcroppings to mar the singular symmetry of the growth. The earth below is padded thick with low running vines, and the trees spring up in such remarkable numbers that one could not discharge a rifle in any horizontal direction without hitting one within ten feet of where he stood. On either side the great walls of forest-covered rocks reach far toward the sky, and to the left we hear the gurgling of a stream, and occasionally we catch glimpses of cascades of striking beauty. Mile after mile we wind through the narrow defile between the trees, and as they grow smaller we know we are nearing timber line.



BASIN OF THE GREAT SPRING AT PAGOSA.

Emerging from the labyrinth of pine we find ourselves upon a level stretch of country, some three-quarters of a mile long by a half mile in width, and studded with small trees and slender piles of rock that form wonderfully picturesque groupings. A little farther and we come upon a scene quite remarkable in its grander effects, lines of spruce trees running in all directions, and so amazingly uniform as to make it appear scarcely possible that the hand of man had naught to do with the landscape. These trees are the cone-shaped spruce, their branches commencing within six inches of the earth, and tapering in absolutely perfect symmetry to the topmost spear. They run almost altogether in lines of single trees, and each row graded on marvelously even incline, from height of three or four feet to forty or fifty. The ground all around and about is literally carpeted with flowers of rarest beauty and fragrance. A hundred yards to the left is Emma Lake, covering some five acres, the water very clear and deep, and constantly added to by the volume of a sparkling cascade at the head, and which suddenly springs forth from among the trees. The trail runs on through three diminutive parks, circumventing great walls of rock, and over grass of luxuriant depth. A half mile from Emma Lake is Clara Lake, and to get glimpses of its gorgeous wealth of purity, one has to climb a perpendicular wall of boulders forty feet or more, and is so surprised upon reaching the summit to find the water on a level with the eye, as to almost fall over backward. On the one side is the sharp ledge and wall of rock, and upon the other long lines of graceful trees. Scrambling over the stones we soon come upon a sight rivaling the most bewilderingly beautiful of dream-land pictures, or the most bewitching fancies of fairy tales. An immense bank or drift of snow as seen from above; a grotto as seen from the level of the water, four to five feet in height, a hundred and fifty feet or more in depth, and twenty to thirty feet in width. From the roof hang long slender icicles, glittering like so many diamonds; between them are pendant fringes of incrusted snow, and most wonderful of all is the bed of this exquisitely appointed grotto, one ravishingly beautiful mass of white flowers in full bloom, summer smiling upon winter. Clara Lake contains from 12 to 15 acres, and passing on a few rods we are at the head of the divide, on a level with the timber line, and 11,500 feet above the sea. Going out upon a rocky ledge we look back over the tree tops and down upon Estes Park, with Long's Peak now appearing grand beyond expression on the right, and Mount Olympus in front. Down a gentle slope of 500 feet to Roaring river, and crossing it we go up the opposite side, over bridges of snow, and underneath which the waters rush and roar in tremendous fury. Three-quarters of a mile and Lawn Lake is reached, a charming body of water at the head of a broad, sweeping lawn, the lake covering an area

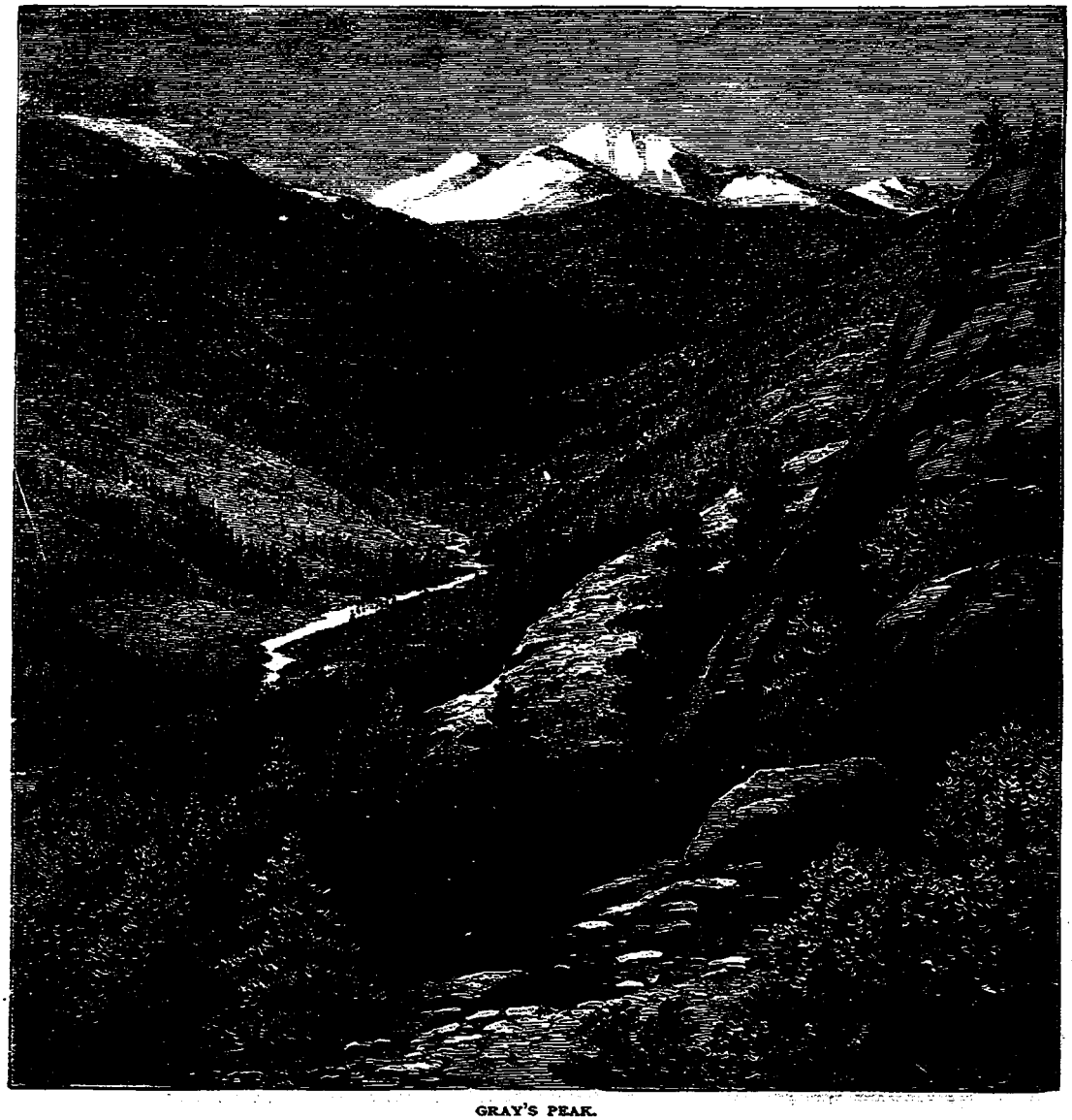
a mile and a half long by three-quarters of a mile wide. To the north a half mile is McGreggor Peak, its precipitous crest full 3,000 feet above us From its highest crag we command a magnificent view of North Park and the illimitable plains, and with our field glasses we can distinguish Laramie City, untold miles away. One could spend weeks in this vicinity, and it would require page after page of description to do justice to the surroundings. Our way back can be made by the route whence we came, or we can pass round the lawn bordering the lake and thence up a low rolling slope to the summit of the divide of the main range, cross over and go down two miles to the headwaters of the South Fork of the Cache la Poudre, 75 miles from where they emerge from the mountains. From here we follow the river down to its mouth at Fort Collins, our journey of 95 miles from Estes Park ending, and taking the train on the Colorado Central, five or six hours' ride brings us to Denver. Should one prefer, he may, when reaching the headwaters of the Cache la Poudre, cross instead of following them, and skirting out in a westerly direction make the tour of North Park, and pass thence into Middle Park or over the Rollins road to Boulder, or through Berthoud's Pass to Georgetown, taking the train from either point for Denver, thence to Pueblo and via the Atchison, Topeka & Santa Fe eastward.

We are now at the end of our tour of Colorado, and though far from covering all the remarkable centres of attraction in the state, it has nevertheless afforded a comprehensive realization of the marvelous beauties, the wonderful grandeur and unparalleled wealth of the Rocky Mountains.

In the succeeding chapters will be found very much of deep interest and value as regards the mineral springs, the climate, the San Juan and other mining districts, and the hunting and fishing grounds of the state.

CLIMATE.

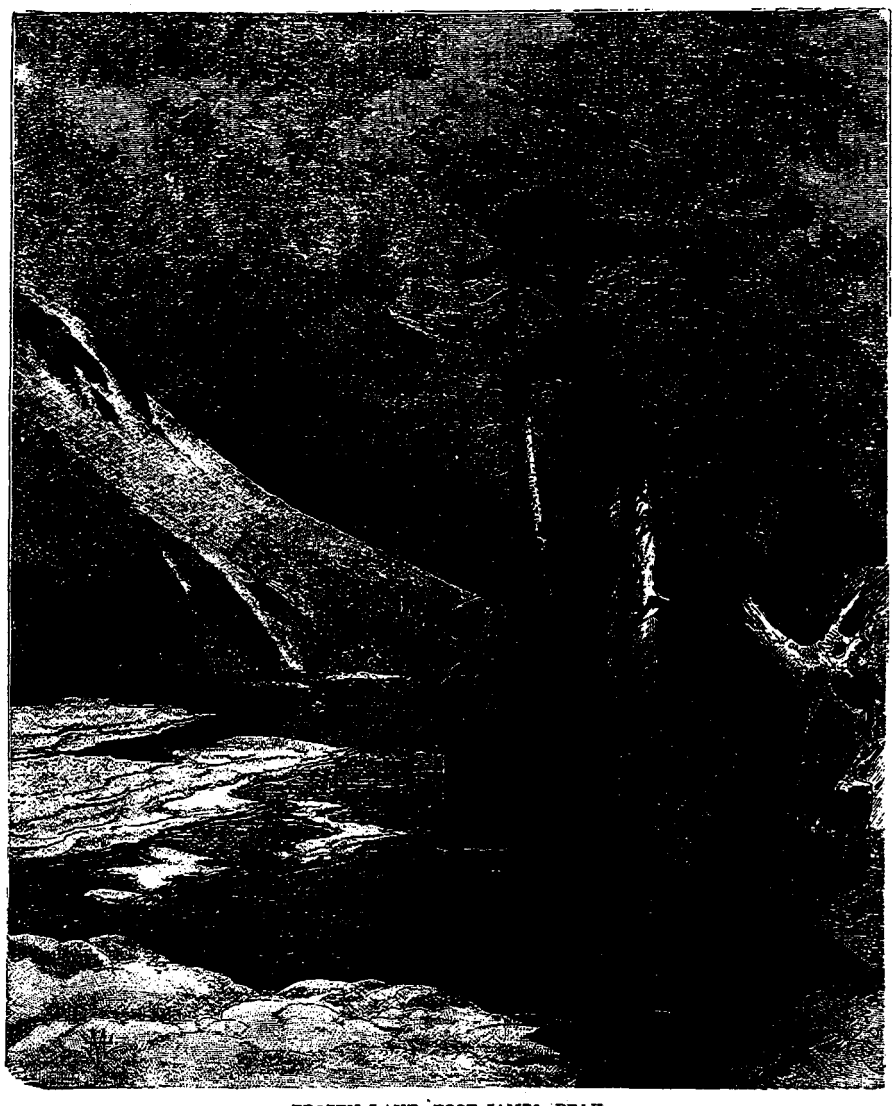
To those in the enjoyment of ordinary health, the sensations experienced in crossing the ascending elevations of the great plains, and in the higher altitude at the base of and within the mountains, are, in a notable degree, pleasant. The dryness and rarity of the atmosphere, together with its remarkable electrical effects, combined with numerous other peculiarities of climate, excite the nervous system to a high degree of tension. The physical functions are aroused and re-energized, it may be even after years of sluggish, inefficient action. New vigor and tone is imparted, the appetite is keen, the digestion is capable and strong, and the sleep is sound. The vital organs, stimulated and compelled from an established routine of greater or less inefficiency, it results that all those lurking ailments to which men in the ordinary pursuits of civilized life are too much subject, at once disappear, and whatever there is in each individual of capacity to enjoy, is summoned into fullest action, and one fairly revels in the intoxication of good health. Such are the sensations accompanying the first entrance into the rarefied electrical air of these elevated regions, which, with their attendant pleasures and benefits, will forever render the Rocky Mountains a resort of unequaled allurements for those who, not invalids, yet seek relief from the exhaustion and deterioration of overworked professional or business life.



GRAY'S PEAK.

The average elevation of the base of the mountains as far south as Cañon City is about six thousand feet above ocean level; and since rarity of air favors correspondingly rapid changes of temperature, the diurnal and monthly range of the thermometer in these

regions as shown by the records, is considerably greater than in the states east. But on the other hand, the dryness and lightness of the air, the constant prevalence of sunshine, its abundance and intensity, and the peculiar qualities of the atmosphere for the transmission of heat by the direct rays of the sun, greatly mitigate sudden changes or extremes of weather. The average recorded temperature of different localities in Colorado are usually a few degrees lower than those of places of the same latitude in the Atlantic states. But here, again, the peculiar atmospheric conditions, and the ever-present glowing and abounding sunshine, create the impression on the senses of a much higher temperature, relatively, than the records show. It results that as to temperature, popularly speaking, that is as evidenced by the senses during the hours devoted to occupations of life, this climate compares most favorably with the best aspects of that of eastern places of corresponding latitude, especially for those persons who are much out of doors and subjected, in an atmosphere of remarkable clearness, to the direct rays of the sun.



FROZEN LAKE, FOOT JAMES PEAK.

Among diseases which a visit to the Rocky Mountains always alleviate, often affording a relief surprisingly rapid, and so long as the patient remains, assuring a permanent cure, are, notably, asthma, the earlier indications of pulmonary consumption, chronic bronchitis, certain forms of dyspepsia, and the poison of malaria in that most obnoxious form of fever and ague. The asthmatic martyr journeying through the Arkansas Valley on the Atchison, Topeka & Santa Fe road, finds, on an elevation being reached adequate to his particular case, that he may lie prone in undisturbed slumber, the symptoms of nightly suffocation having vanished as if by magic. He, who remaining in the lower altitudes would naturally become the prey of pulmonary consumption, finds in the Rocky Mountains influences which arrest the tendency to the disease, and permanently prevent its development. The dyspeptic, tormented by the burning and eructations of gastric acidity, soon discovers that he can gratify a hearty appetite without subsequent punishment, and the sufferer from fever and ague is indeed happy in escaping to a region where that disease and its kindred are unknown. Of the numerous patients for pulmonary consumption who have sought Colorado hoping to check the march of its relentless ravages, many have found the priceless boon of health, while others, sooner or later, have retraced their route in rapid decline. Out of the multiplicity of conflicting phenomena attending the stage, as well as the type or variety of the disease, it would be in vain to attempt to formulate absolute rules indicating what classes of consumptives may come here with profit to themselves, and what may not. It may possibly happen that to have come to Colorado in an advanced stage of the disease was clearly the best thing to be done. With means to command the luxuries of living, with fortunate social surroundings, life, if not materially prolonged, has been by the climatic condition, the inspiration of mountain scenery, the flood of sunlight inviting to the warmth and cheer of the outer air, rendered more tolerable than it could have been under the most favorable combination of circumstances, at home. But by far the larger number of such patients force the journey to the mountains by too rapid travel, and it is not infrequently the case that it is made by such pronounced continuity of progress for long distances, as would seriously impair the comfort of a strong, robust man. The safest, most humane, and really only beneficial plan to follow in taking consumptives in advanced stages of the disease to Colorado, is to make the journey by such degrees as ordinary precaution would dictate, stopping over frequently after an altitude above a thousand feet is reached, and affording the patient such rest as the increased demand upon his enfeebled lungs necessitates. There are several points along the Santa Fe road especially desirable for such purpose—such for instance as Florence, 1,287 feet altitude; Newton, 1,445 feet; Hutchinson, 1,500 feet; Sterling, 1,613 feet; Great Bend, 1,876 feet; Larned, 2,035 feet; Kinsley, 2,224 feet. Good accommodations may be found at any of these places. At Lakin, 3,037 feet, where there is an excellent hotel, and every advantage of quiet and uninterrupted rest, the last stop might be made, and it should be of two or three days' duration. From Lakin to either Cañon City, Colorado Springs or Manitou, is less than a day's ride, and the patient having gained strength from his comfortable sojourn, and the bracing, exhilarating air at that elevation, may safely complete his journey. Consumptives in the first stages of the disease, not hopelessly given over to the malady, but with indubitable tracings of shattered health and well-marked indications of lung lesion, quit unfavorable hygienic surroundings at home, leave the old grooves of business or occupation, go to the Rocky Mountains, and inspired by the temptations of the climate and scenery to out-door life, repair anew the wasted tissues of the body, and extend their hold on life.

Others, warned by the knowledge of hereditary taint, on the first hint of trouble, the first mutterings of ill-health can, in the high altitude of Colorado, realize benefit of radical and permanent character, check their tendencies to disease, gradually arrive at a plane of better general health than they have hitherto known, and wear well in the active engagements of life. Most phthisical patients who have sought relief in Colorado have not removed to that climate as soon as they might, with much increased benefit. If physicians and patients by the sea coast and its rivers, by the

great lakes and in the valley of the Mississippi, would more carefully discriminate as to when and where the benefit of climate should be sought, many thousands, inclining into pulmonary consumption, would find in the Rocky Mountain region safety and refuge from this terrible destroyer of human life.

The signal service records kept by observers at Denver, exhibit the remarkable fact that on but eleven days during three years was the sun during the entire day wholly obscured by clouds. The atmosphere of the elevated region contains an amount of electricity greatly in excess of that of ordinary altitudes, and as we ascend greater heights on entering the mountains, the electric influence increases, hence the climate is pre-eminently stimulating. It is for the reasons thus briefly and rapidly noticed that the winter climate of Colorado is to an extent not easily understood, unless experienced, inviting, comfortable and luxurious as compared with that of much of the Atlantic coast, of the northern lakes and rivers, and of the prairies of the states east of the Mississippi, with their chilling winds and saturated atmosphere. Also, its tonic and stimulating qualities give it advantages of a class not possessed by the milder and more equable climates of California, Florida, Cuba and the Bahamas.

MINERAL SPRINGS.

No state in the Union contains so many springs, and springs of such extraordinary virtue, as Colorado, distributed over so large a portion of the state, so varied in locality, altitude and climate, offering at once a proper place for every class of invalids suffering from any disease common to our country. To enumerate all the springs would be a herculean task; almost might one as well attempt the counting of the pebbles on the sea shore. The two greatest hot springs on the continent are in Colorado. Either is now reached by less than a hundred miles staging, and with the extension of the Denver & Rio Grande Railway to Del Norte, neither will be more than a fair day's drive — Wagon-Wheel Gap reached, in fact, in a half day. Pagosa is the largest and hottest mineral spring in the United States, and is reached by the Atchison, Topeka & Santa Fe road to Pueblo; thence by the Denver & Rio Grande to Garland; thence by stage to Conejos and Pagosa Spring. Wagon-Wheel Gap Hot Springs are 30 miles west of Del Norte, or 90 miles from the present terminus of the Denver & Rio Grande road. Garland, from which point Barlow & Sanderson's stage line runs daily, and through to the Gap without "lay over." The best of accommodations have been provided in the way of swimming baths, private rooms, hotel, etc., and many almost miraculous cures have been effected. As will be noted from the appended table of analysis, the water of the springs at Wagon-Wheel Gap is very similar to that of the hot springs of Arkansas, and in some of the more important ingredients, stronger. Parnassus Springs are 12 miles southwest, and the Carlisle Spring 20 miles north of Pueblo, the terminus of the Santa Fe road. The South Park Sulphur Springs are less than 100 miles north of Cañon City, the latter named point being itself a noted centre of mineral springs, and reached by the Santa Fe to Pueblo, and thence by the Denver & Rio Grande direct. All these springs are treated in detail in the appended table, which also embraces several of the leading springs about Manitou, Idaho, Estes Park, etc., and with the analyses of famous springs in Virginia, New York, Wisconsin and Germany, afford the best of opportunities for comparison as to their respective merits.

In addition to the mineral springs enumerated in the table, there are hot sulphur springs of great worth in Middle Park, others in the vicinity of Ouray, Puncho Pass, etc., while of soda and iron springs, the San Juan country is almost literally overrunning with them. At all the principal springs there are large and exceedingly comfortable bath houses, with plunge baths, swimming tanks, tubs and vapor baths.

Name of Spring	Pagosa.	Parnassus.	Carlisle.	Porter's Sulpho-Chalybeate. †	Hot Sulphur.	Hot Springs. ‡	Hot Springs. ***	Tonic Iron.	Navajoe.	Shoshone.	Iron Ute.	Spa.	White Sulphur. *****	Hot Springs.	Little Ute.	Hot Springs. ******
Temperature	150° F.	72° F.	60° F.	60° F.	140° F.	148° F.	140° F.	50° F.	50°.2 F.	48°.5 F.	44°.3 F.	46° F.	60° F.	102° F.	51° F.	110° F.
Location	San Juan.	Pueblo.	Pueblo.	Denver.	S. Park.	W. W. Gap	Arkansas.	Estes Park	Manitou.	Manitou.	Manitou.	Germany.	Virginia.	Cañon City.	Cañon City.	Idaho.
Carbonate of Soda	2.74	69.10	8.99	5.82	76.43	.....	.....	.....	72.74	51.81	34.62	5.60	.....	73.20	76.40	30.80
Carbonate of Lithia	.42	1.04	.....	.....	.....	**	.....	.....	.14	Trace	Trace	.....	.....	Trace	Trace	.....
Carbonate of Lime	34.42	31.82	22.40	10.28	18.86	18.09	2.40	2.08	75.49	63.30	34.44	7.47	1.15	33.50	22.50	9.52
Carbonate of Magnesia	2.83	13.09	11.39	1.00	11.26	2.98	.50	1.53	18.47	.....	8.50	1.11	.....	12.80	14.00	2.88
Carbonate of Iron	.....	1.30	.30	Iron Oxide 1.50	.....	.....	Iron Oxide .13	4.86	.....	.....	3.37	2.80	.....	.....	Trace	4.12
Sulphate of Potassa	4.16	10.76	.70	.30	.....	.....	.....	.72	9.46	2.99	4.09	.64	.....	.....	.....	.....
Sulphate of Soda	129.32	2.32	20.00	27.47	.....	6.13	.....	.....	10.74	21.63	18.01	.29	.....	79.30	12.10	29.39
Sulphate of Lime	.....	.....	.....	.....	.....	.....	.35	.....	.....	.....	.....	.....	7.74	.....	.....	3.44
Chloride of Sodium	17.06	60.75	11.26	5.33 Sil. Soda.	96.62	6.84	.21	.95	23.21	24.57	18.43	3.44	.18	18.20	118.00	4.16 Sil. Soda 4.08
Silica	3.33	4.63	Trace	.90	.54	.62	1.40	.58	.86	Trace	1.56	3.79	.....	.....	.....	.....
Organic Matter	Trace	Trace	Trace	Trace	Not determined	Hydro. Sul. 7.00	1.16	1.31	211.12	.....	.....	.....	.....	.....	.....	.....
Total Solids	194.27	75.04	75.04	55.63	228.87	41.65	6.24	12.04	.....	164.30	123.03	25.15	14.85	217.00	243.00	107.11
Gases	Carb. Acid. Hydro. Sul.	.....	.....	*	Hydrogen Sulphide.	Hydro. Sul. 7.00 Grains. 19.2 Cub. In.	.....	.....	Carbonic Acid	Carbonic Acid	Carbonic Acid	Carbonic Acid	.....	.....	.....	.....

ANALYSES OF COLORADO AND OTHER MINERAL SPRINGS—CONSTITUENT PARTS IN ONE GALLON OF WATER.

*Free Carbonic Acid, cubic inches, 3.46; Free Hydrogen Sulphide, cubic inches, 2.21. **Lithia could have been estimated, had there been sufficient water. ***Iodine, .05. ****Sulphate Magnesia, 18.72. *****Sulphate Magnesia, 5.58. †Chloride of Potassium, 19.68. ‡Sulphide of Sodium, 5.68. §Alumina, .39. †Chloride of Magnesia, 1.14. Sulphide of Sodium, 1.90.
An analysis of the water of the Congress Springs at Saratoga, New York, shows, Carbonate of Soda, 8.98; Carbonate of Lime, 98.09; Carbonate of Magnesia, 95.78; Carbonate of Iron, 5.07; Chloride of Sodium, 385.02; Silica, 1.50.
An analysis of Bethesda Spring, Waukesha, Wisconsin, shows, Carbonate of Soda, 1.25; Carbonate of Lime, 17.02; Carbonate of Magnesia, 12.38; Carbonate of Iron, .04; Sulphate of Potassa, .15; Sulphate of Soda, .54; Chloride of Sodium, 1.16; Silicia, .74; Organic Matter, 1.98.

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Page 48 of 66

CREST OF THE GREAT DIVIDE.

THE SAN JUAN MINING DISTRICTS.

BUT little can ever be known of the trials, hardships, deprivations and sufferings endured by the adventurous men who blazed the way to Colorado's present prosperity; of the risks, conflicts, tragedies and deaths that marked the first few years of her eventful history. Barely twenty years ago Colorado was indeed trackless desert and unexplored forests, and its mountain fastness unknown of man. Gold was first discovered in 1858, late in the fall, and early in the spring of the following year rich deposits were found at Jackson's Bar — now Idaho; at Gregory — now Central; and along South Boulder Creek — now Rollinsville. These were the first discoveries made proving rich enough to pay for working, and from them the mining area has widened and grown to its present remarkable proportions. It was some years, however, before even the most venturesome dreamed of exploring the southern section of the territory, as it was then, and the northern and central portions comprised the new Eldorado of men's longings. In 1860 California Gulch swarmed with placer miners, and the reports reaching the northern and central portions of the territory of the fabulous fortunes being "panned out" that far south, led to an enormous increase of prospectors in the Gulch. The theory that if the Gulch was so wonderfully rich, the country beyond should be even richer, gained such firm believers that in July, 1860, a party under the lead of one Baker started for the San Juan, meaning the country along the San Juan river. In December another and larger party was made up, and late that month started for the San Juan to discover the whereabouts of the original party. Going south from Denver by way of Colorado City and Pueblo, the Sangre de Cristo range was crossed through Sangre de Cristo pass, it requiring fourteen days to make the journey now made by the Denver & Rio Grande railroad train in two hours. Great suffering was entailed by the severity of the weather and the hardships of travel. Roads had to be built, and there was no feed for stock except such as obtained by felling trees for them to browse upon. The entire winter was one of fearful experience, and it was not until along about the 1st of April that the first party was discovered in camp in Baker's Park, now Silverton. They had wintered in brush shanties, and fared no better in any way than those seeking them. The two parties went into camp at Cascade Creek and Baker's Park, and until about the 1st of May explored the region for miles about with the utmost diligence. But they were searching only for gulch or placer gold diggings, and knew nothing about leads or quartz mining. Becoming dissatisfied, camp at Cascade Creek was broken up, and another made at what was then named and is now known as Animas City. No better success attending the search for placer diggings, a general disorganization ensued on July 4th, and an almost unanimous break made for Denver and the States. Baker, upon returning to Fort Garland and learning of the rebellion, at once started for Virginia, his native state, where he entered the confederate army and served during the war. In 1868 Baker returned to Colorado, organized another small party, and the summer of that year penetrated the San Juan country as far as the Gunnison, Animas and La Plata rivers. Nothing daunted by the dwindling down of his party to himself and two companions, Baker pushed on, and paid the penalty of his rashness with his life, the Indians killing him and causing the drowning of one of his associates at the mouth of the Little Colorado, or Chiquito, as it was called by the Indians. The surviving member of the trio of luckless explorers, a man by the name of White, and who is said to be still living somewhere in the San Juan country, sprang upon the rude raft on which the party had intended passing through the cañon, as Baker was shot, and with the other man cut it loose, to be instantly sent whirling with frightful velocity through the boiling rapids of the impetuous torrent. White tied himself to the raft, and urged his companion to do the same, but he would not, and eventually was swept off and drowned. Days after, White and the death raft were accidentally discovered floating on the waters of Marble Cañon, and when unbound and taken off he was about dead. In time he recovered to tell of his wonderful adventure and marvelous escape. His story was for a time the subject of sneers and doubts, but subsequent events proved it to have been founded on fact, and thus was substantiated the tragic end of Baker, the pioneer of the San Juan. After the fruitless expeditions of Baker and those who followed him in 1860 and 1861, the San Juan country was again left in its primeval

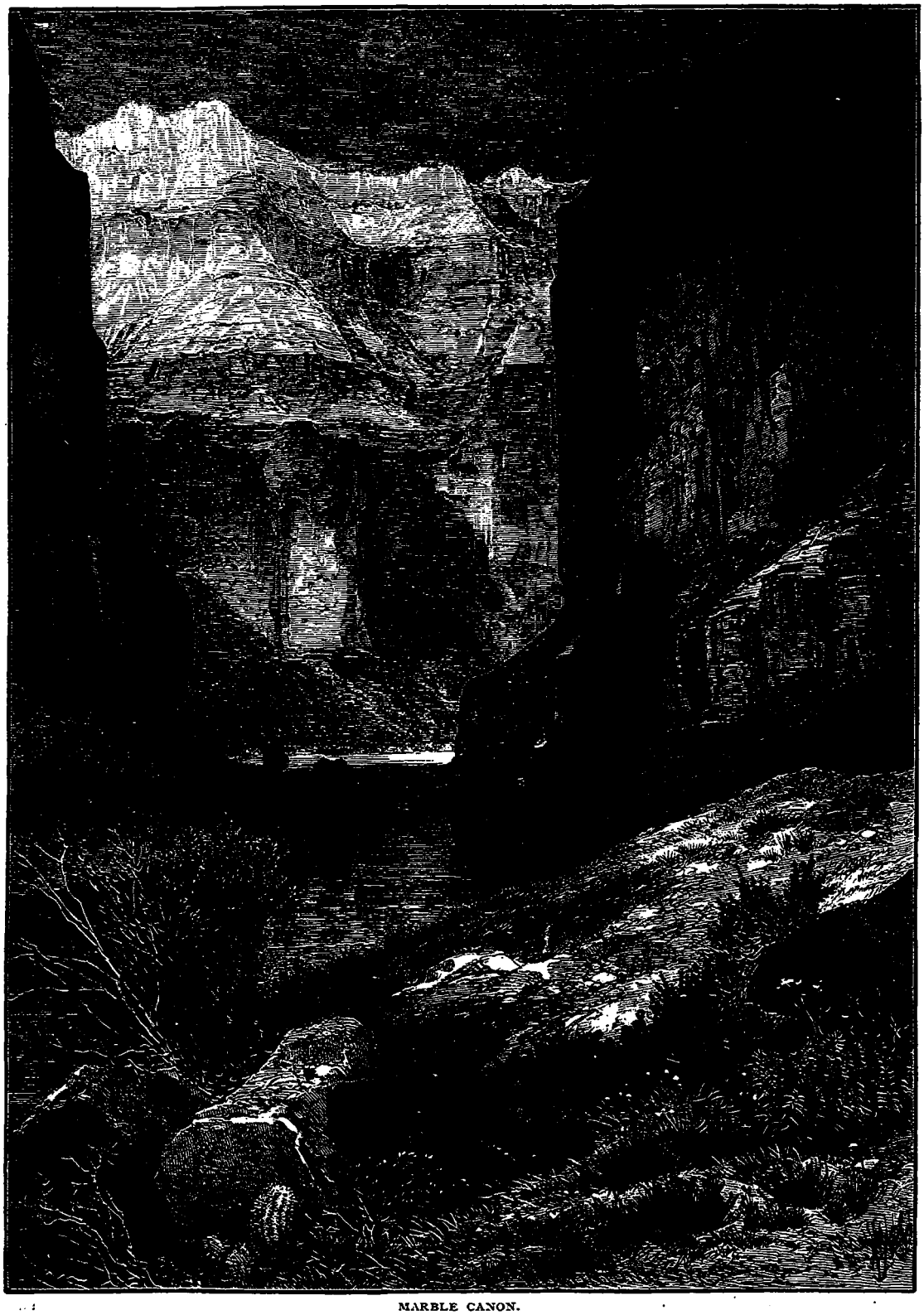
solitude, and for years was naught but a wilderness. The search by these parties had only been for gulch and placer gold diggings, and at that time but few prospectors anywhere in Colorado knew anything about mineral veins, and silver deposits were unsuspected.

The next expedition to the then far away and almost inaccessible region was in 1869, and was well planned and systematically prosecuted. Strangely enough, it started from the opposite direction, and composed as it was of brave and determined men, from their discoveries have grown the splendid developments of to-day. This expedition was organized at Prescott, Arizona, under the lead of one Jackson, an old Californian with a varied and adventurous experience, not the least of which was in Indian warfare. The party under Jackson numbered twenty-two, and expected to effect a junction with another party, under Captain Cooley, at Forts Goodwin and Reno. The junction of the two parties was not effected, however, until the Rio del Sal—Salt—River was reached, and in the meantime the journey of either party was one successive skirmish with the Apaches. Hardly were the fifty sturdy and courageous men combined in a single party before new troubles were experienced with the Indians. The country swarmed with hostile Apaches, intent upon preventing the white men from gaining a foothold. At night signal fires could be seen on the mountain peaks, and during the day columns of smoke exchanged messages between the savage bands. Alarms and surprises were constant and wearing, and finally all but eight determined to abandon the enterprise. This fragment of the original force pressed on, made treaties with the Indians for unmolested progress toward southwestern Colorado, and finally in October reached the San Juan river. Santa Fe was made winter quarters, and in April, 1870, the line of march was again taken up for the San Juan country, the party at this time numbering twelve, having been increased to that extent by one of the party leaving Fort Reno the summer before, and three others from Montana. The twelve remained together until the Animas was reached, where the leader, Capt. J. Cary French, at that time agent of the Navajoes, and two others, turned up the river through the cañon to Baker's Park, and after prospecting at several points finally discovered the famous Little Giant and Mountaineer mines. The others prospected about until fall, wintered with French and his associates at Santa Fe, and all returned to the San Juan the following spring, 1871, French and his party to their mines, and others settling permanently at the point now known as Silverton.

Though practical operations were thus inaugurated in the San Juan country in 1871, the extent of such operations was necessarily very meagre, there being no roads, but few trails, no mills or reduction works, and no settlement of any account nearer than Pueblo. As was to be expected, progress in the face of obstacles of so formidable a character was slow. Mountain roads are not built in a day, and trails require time and travel to make them distinguishable, not to say passable. If slow at the outset, the progress made was all the more substantial, and with the rapid perfection of the present remarkably complete system of roads throughout the San Juan country, there followed one steady and enormous stream of machinery, men and means. Where hardly three years ago there was not a mill, reduction works or smelter, there are now a round dozen, in capacity running from 10 to 75 tons per day, and all in successful operation. These do not include a half-dozen or more stamp mills, averaging from 10 to 30 stamps each. In four counties alone of the San Juan country there are a hundred or more working mines, paying a fine profit over and above all expenses. Of these some fifty or more are enumerated in the appended table.

Name of Mine.	Location.	Vein or Crevice.	Pay Streak.	Development.	Ore.	Average Yield per Ton.
Burrows	Mineral Point	40 ft.	4 ft.	44 ft. shaft	Galena	50 ozs. silver.
Boston	Mineral Point	6 ft.	20 in.	100 ft. shaft, 100 ft. tunnel	Galena and Gray Copper	60 ozs. silver.
Mastodon	N. Fork Animas	20 ft.	3 ft.	40 ft. tunnel	Galena	100 ozs. silver.
Vermilion	Mineral Point	11 ft.	2 ft.	50 ft. shaft	Pyritous	30 to 50 ozs. silver.
Del Norte	Mineral Point	7 ft.	4 ft.	40 ft. tunnel on vein	Galena	100 ozs. silver.
Red Cloud	Mineral Point	8 ft.	3 ft.	60 ft. shaft, 68 ft. tunnel	Galena and Gray Copper	100 ozs. silver.
Mountain Queen	Near Mineral Point	3 ft.	11 in.	40 ft. shaft, cross cut, 60 x 20	Galena	$40 silver, 60 % lead.
Mountain Curve	Lake Fork—Gunnison	4 ft.	12 in.	40 ft. tunnel on vein	Quartz and Antimonial Silver	50 to 100 ozs. silver.
Mountain View	Lake Fork—Gunnison	4 ft.	12 in.	Extension of the curve	Quartz and Antimonial Silver	60 to 80 ozs. silver.
Garden City	Cottonwood Creek	5 ft.	10 in.	Cross-cut tunnel, 130 ft. deep	Galena and Gray Copper	65 to 125 ozs. silver.
Cuba	Cottonwood Gulch	4 ft.	8 in.	23 ft. shaft	Ruby Silver	100 to 300 ozs. silver.
Little Edith	Tellurian	3 ft.	9 in.	20 ft. tunnel	Pyritous	80 to 250 ozs. silver.
Lily	Cleveland Gulch	5 ft.	30 in.	30 ft. open cut	Galena	75 to 150 ozs. silver.
Inez	Cleveland Gulch	30 ft.	5 ft.	40 x 20 ft. open cut, 35 ft. tunnel	Galena	75 to 150 ozs. silver.
Cashier	Linder Mountain	12 ft.	3 ft.	100 ft. tunnel on vein	Copper Pyrites and Galena	80 to 250 ozs. silver.
Silver Queen	White Cross Mt.	3 ft.	12 in.	Open cut	Galena and Gray Copper	50 to 150 ozs. silver.
American Eagle	Near Tellurian	7 ft.	2 ft.	250 ft. tunnel	Galena	$50.
Three Brothers	Ouray	10 ft.	10 ft.	10 ft. shaft	Galena	300 ozs. silver.
Watson	Ouray	5 ft.	14 in.	18 ft. shaft	Sulphurets	100 ozs. silver.
Gold and Silver Chief	Upper San Miguel	13 ft.	4 ft.	Open cut	Free Gold and Sulphurets	4 ozs. gold and 100 sil.
Grand Trunk	Mt. Sneffles	5 ft.	20 in.	20 feet shaft, several open cuts	Galena and Gray Copper	100 to 200 ozs. silver.
Silver Queen	Mt. Sneffles	4 ft.	14 in.	Open cut	Galena and Brittle Silver	100 to 200 ozs. silver.
Virginius	Mt. Sneffles	4 ft.	4 ft.	50 ft. tunnel, 40 ft. shaft	Galena and Gray Copper	100 to 200 ozs. silver.
Blue Grass	Mt. Sneffles	5 ft.	20 in.	Open cut	Antimonial Silver	200 to 600 ozs. silver.
U. S. Depository	Mt. Sneffles	6 ft.	16 in.	25 ft. tunnel on vein	Galena and Gray Copper	$40 to $400.
Conqueror	Mt. Sneffles	4 ft.	8 in.	30 ft. tunnel on vein	Galena and Gray Copper	40 to 400.
Silver Leaf	Mt. Sneffles	4 ft.	2 ft.	Adits, 10 and 15 ft.	Galena and Gray Copper	40 to 400.
Bowery Boy	Mt. Sneffles	4 ft.	18 in.	22 ft. shaft	Galena and Gray Copper	40 to 400.
Mountain Quail	Mt. Sneffles	7 ft.	2 ft.	15 x 12 open cut	Galena and Gray Copper	40 to 400.
Yankee Boy	Mt. Sneffles	6 ft.	3 ft.	30 ft. tunnel	Galena and Gray Copper	40 to 400.
Pilot	Mt. Sneffles	7 ft.	15 in.	40 x 18 ft. open cut	Galena and Gray Copper	40 to 400.
Terrible	Mt. Sneffles	4 ft.	18 in.	30 ft. tunnel	Galena and Gray Copper	40 to 400.
Raleigh	Mt. Sneffles	7 ft.	26 in.	Open cut	Galena and Gray Copper	40 to 400.
Bank of San Juan	Mt. Sneffles	5 ft.	26 in.	Open cut	Ruby Silver and Gray Copper	40 to 400.
Black Prince	Mt. Sneffles	8 ft.	10 in.	Open cut	Galena and Gray Copper	40 to 400.
Bowling Green	Mt. Sneffles	5 ft.	2 ft.	Open cut	Galena and Antimonial Silver	40 to 400.
Little Chief	Mt. Sneffles	4 ft.	4 ft.	Open cut	Pyrites with Galena	40 to 400.
Blue Jay	Mt. Sneffles	15 in.	15 in.	15 ft. shaft	Galena and Gray Copper	40 to 400.
Hidden Treasure	Mt. Sneffles	4 ft.	2 ft.	15 ft. cross cut, 20 feet deep	Galena and Gray Copper	40 to 400.
Millionaire	Mt. Sneffles	6 ft.	18 in.	25 ft. tunnel	Galena and Gray Copper	40 to 400.
Pocahontas	Mt. Sneffles	4 ft.	18 in.	15 ft. tunnel, 20 ft. open cut	Galena and Gray Copper	40 to 400.
Imogene	Mt. Sneffles	4 ft.	1 ft.	100 ft. tunnel and open cut	Galena and Gray Copper	40 to 400.
York State	Mt. Sneffles	5 ft.	20 in.	Open cut	Ruby Silver	40 to 400.
Emma Dean	Eureka Gulch	30 ft.	3 ft.	50 ft. cut and tunnel	Gray Copper and Pyrites	168 ozs. silver.
Tegner	Eureka Gulch	14 ft.	3 ft.	80 ft. tunnel	Gray Copper and Pyrites	$150.
Crispin	Eureka Gulch	12 ft.	3 ft.	Open cut	Gray Copper and Pyrites	160 ozs. silver.
Highland Mary	Silverton	21 ft.	22 in.	1,000 ft. tunnel	Gray Copper and Galena	$560.
Aspen	Silverton	5 ft.	20 in.	350 ft. on vein, shaft 175 ft.	Galena and Gray Copper	160 ozs. sil., 60 % lead.
Ajax	Silverton	10 ft.	3 ft.	35 ft. shaft, tunnel 300 ft.	Galena, Gray Copper and Pyrites	$300.
Empire	Silverton	8 ft.	2 ft.	40 ft. shaft, 125 ft. tunnel	Galena	175 ozs. silver.
Cocktail	Silverton	5 ft.	3 ft.	100 ft. tunnel and 160 ft. drift	Galena	150 ozs. silver.
Edward	Silverton	4 ft.	2 ft.	60 ft. drift	Galena	100 ozs. silver.
Ruby	Silverton	5 ft.	3 ft.	80 ft. tunnel on vein	Sulphurets and Gray Copper	80 to 120 ozs. silver.

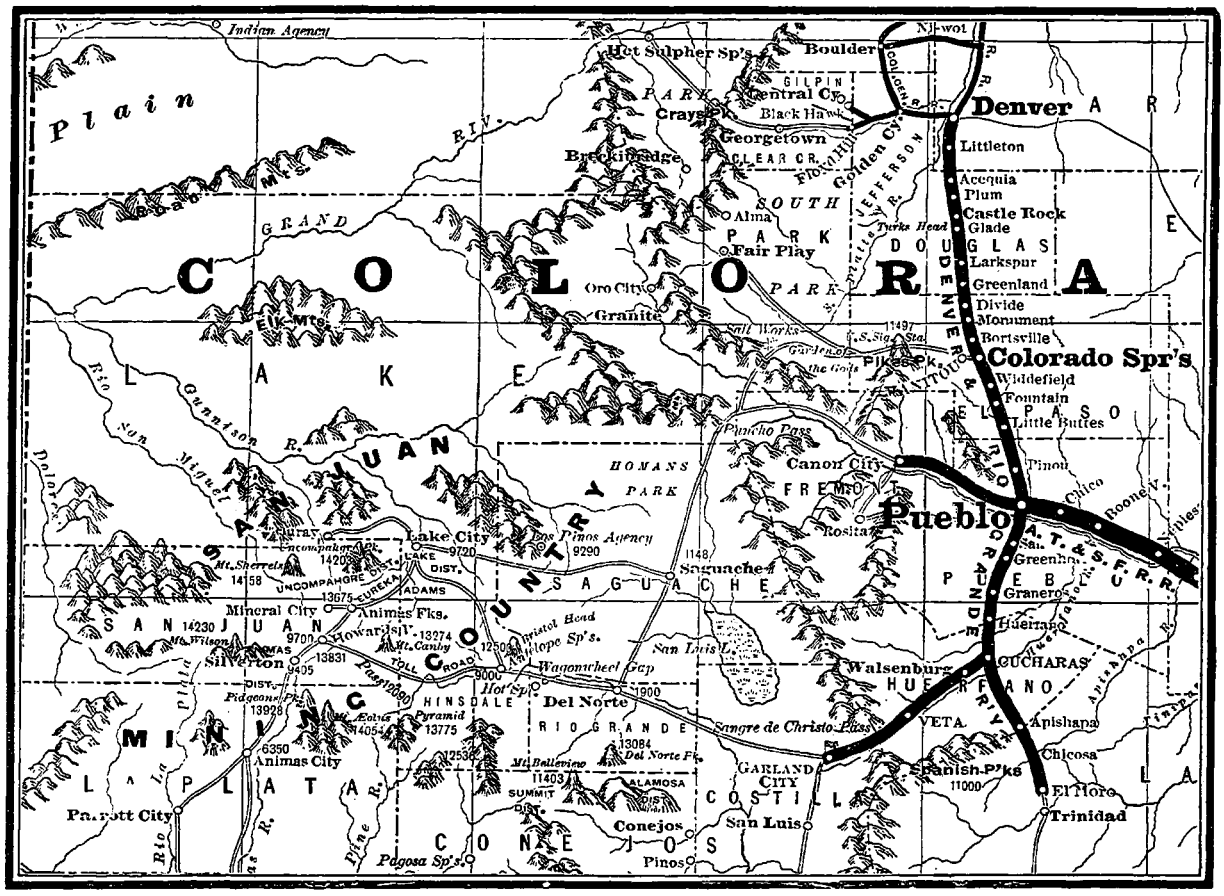
The longest tunnel in the San Juan country is the Ingersoll, near Silverton, and extending under the Hazleton Mountain a distance of 900 feet. In the four counties, Rio Grande, Hinsdale, San Juan and Ouray, there are ten commercial points, averaging in population from 100 to 1,500; six newspapers; five banks; twelve quartz mills, and five stamp mills. Rio Grande county has Del Norte for its county seat, and includes the Summit mining district. The other three, San Juan, Hinsdale and Ouray, have Silverton, Lake City and Ouray for their county seats respectively, and include the sources of the Rio Grande, Animas, Gunnison and Uncompahgre rivers, and about are found the majority of the mines hitherto enumerated. The general altitude of this mining region is the highest for its area in Colorado, nine of its peaks being over 14,000 feet in altitude, and one hundred and twenty-two above 13,000 feet. The "hub" of the mining portions of San Juan, Ouray and Hinsdale counties is Hurricane, the topmost peak of the Hazleton range, from which radiate the Animas and Uncompahgre rivers and Eureka and Cement creeks. Lake City, Silverton and Ouray form the corners of a triangle, with Sultan and Hurricane peaks in the centre. The roads and trails forming the irregular sides of this triangle are: road from Lake City to Silverton, via Hensen creek and the Animas, 32 miles; road and trail from Silverton to Ouray, via Cement creek and the Uncompahgre river, 23 miles; trail and road from Ouray to Lake City, via Poughkeepsie Fork and Hensen creek, 28 miles. From Garland City, the present terminus of the Denver & Rio Grande railway, to Lake City, via Del Norte, Wagon-Wheel Gap and Antelope Park, the distance is 152 miles. By June of the present year the Denver & Rio Grande will be constructed to Alamosa, on the banks of the Rio Grande, thus reducing the distance other than by rail some twenty miles. The time required in making the distance between Garland and Lake City is, one day to Del Norte; midnight, Wagon-Wheel Gap; next day at noon, Lake City. There is another route via Cañon City and Saguache, the distance that way, by the new line, 163 miles to Saguache, and 98 from the latter named point to Lake City. Barlow & Sanderson's



MARBLE CANON.

stages run on both of these routes. From Lake City to Ouray by wagon road, circling the Uncompahgre mountains, is 100 miles. From Silverton to Animas City, 45 miles, via a new road just completed by Mr. J. P. Fay, of Topeka, Kansas. This gives Silverton an outlet via Animas City and Tierra Armarilla to Garland City, practicable all the year round. By this new means of communication with the outside world, Silverton is rendered entirely independent of other leading mining centres, being reached direct from Garland west through the San Luis Valley to Conejos, 60 miles, in one day's travel. From Conejos the road leads directly west to Pagossa Spring, 70 miles, one day's; from Pagossa Spring to Animas City, 80 miles, two days'; Animas City to "old town Elbert," 12 miles, thence through Animas Cañon, 31½ miles, to Silverton, one day's. The entire distance from the end of the railroad to Silverton, as outlined, is 253 miles, and over an excellent road all the way. Another new road has recently been opened by the Park View & Fort Garland Freight Co. from Conejos via Charma Pass 45, miles, thence 50 miles to Pagossa Springs, thence to Animas City 60 miles, and thence to Silverton 40 miles. This is an excellent road in winter as well as in summer, avoiding, as it does, the high ranges and deep snow. A preliminary survey has lately been completed by a party of government engineers on a line up the south fork of the Rio Grande, thus connecting Del Norte with the Lower Animas by a short and comparatively easy route. The new road over Cunningham Pass will be completed early this summer, and a company has been formed for the purpose of making a road from Ouray to Mineral City, tapping the Hensen Creek road near that point, and thus connecting Ouray and Lake City by a highway not exceeding twenty eight miles in length.

Southwest from the mining districts already dwelt upon, and in the extreme corner of the state, is the county of La Plata, greater in extent of square miles than any single county in the San Juan country, and comprising, as very many think, the richest mineral product in all Colorado. Its mining interests are centred in the La Plata mountains of average altitude of 14,000 feet, and are the most southerly of all mining regions. Owing to the want of capital and suitable machinery for treating the ore, the development of the mineral wealth of the La Plata district has been slow, but



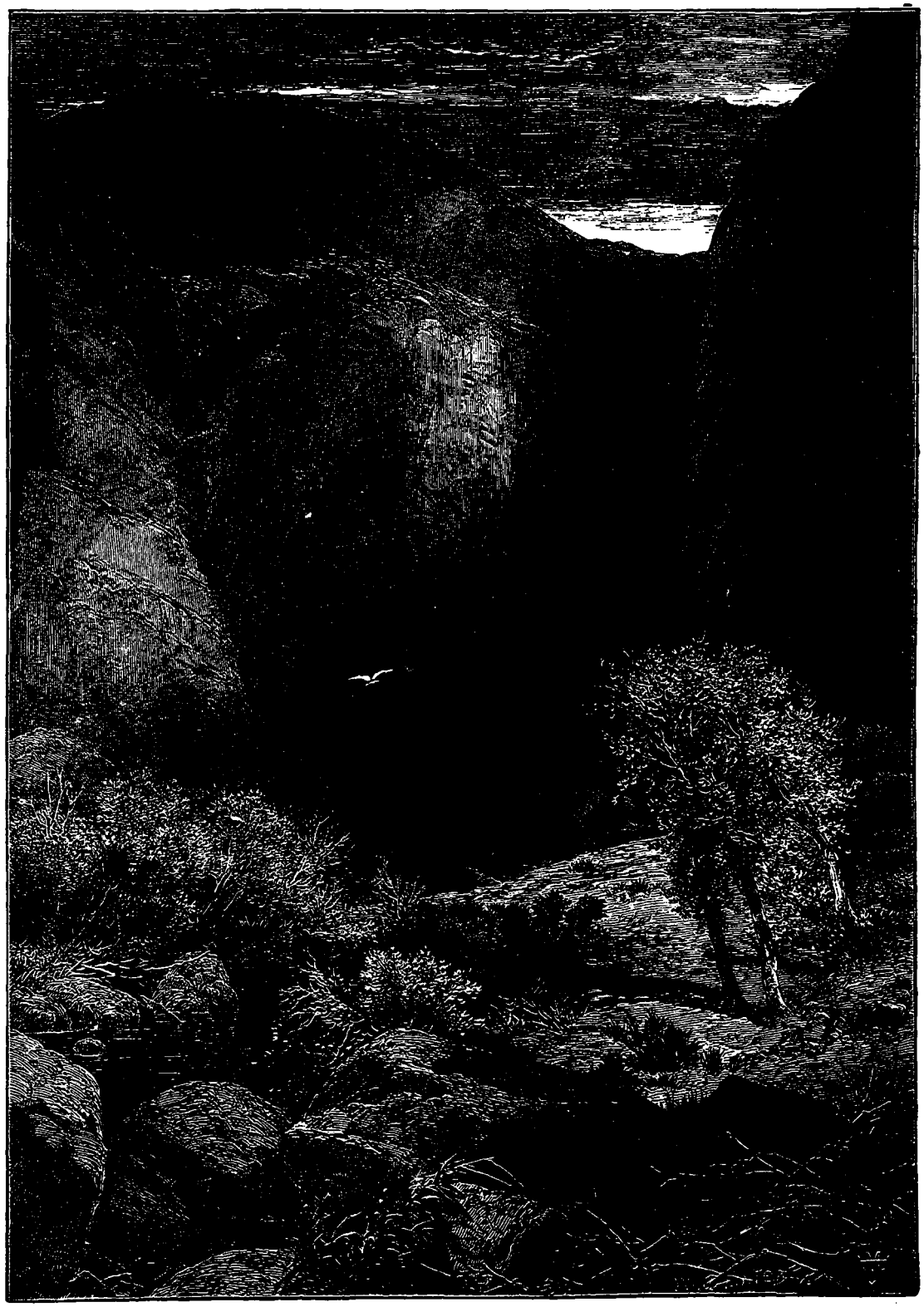
MAP OF THE SAN JUAN MINING COUNTRY.

it will prove all the more sure when once its wonderful extent is fully appreciated. A large number of acres of placer claims have been located, but owing to the great lack of proper hydraulic machinery but little gold has been extracted. Animas City, on the new road from Garland to Silverton, is very near the centre of La Plata county, and promises to become one of the livest mining towns in the San Juan region. Hermosa, eight miles, and Parrot City, twenty miles from Animas City, are both in La Plata county. An excellent road is in operation from Animas City to Tierra Amarilla, one hundred miles.

It will be observed from the map on this page, that Pueblo, the present terminus of the Atchison, Topeka & Santa Fe Railroad, is the main junction point with the Denver & Rio Grande Railway for all southern terminal points, and most unequivocally the one great route to the San Juan mines.

Reaching Pueblo from the east via the Santa Fe route, we step aboard the Denver & Rio Grande train just the other side of the platform of the Union depot, and eight hours later have crossed the Sangre de Cristo range, and are ensconced for the night at Garland. Leaving after an early breakfast the next morning, the evening of that day finds us in Del Norte, the gateway to the San Juan country. Having several different districts to visit, we, the following morning, start out for the gold bearing district known as the Summit, so named from the fact of its location on the summit of South Mountain, at an altitude of nearly 11,000 feet, twenty-five miles from Del Norte, and reached by an excellent wagon road. The first sign of mining is at the dinner station, where what bids fair to be a fine lead was struck some time since by the proprietor of the eating house, and is being developed between meals, as it were. There are six stamp mills and one concentrating works in the Summit district, and labor in the mines runs from $1.50 to $3 and board; in the mill, $1.50 and board; feeders and blanket men, $60 per month and board; amalgamator, $100 per month and board; engineer, $115 per month and board.

From the *Annie* — upon which, with the mill, a dividend of $35,000 was declared last year— we go over to the *Odin;* thence to the *Queen*, where some $16,000 to $18,000 have been spent in tunneling and shafting,—any quantity of ore, averaging from $40 to $50 per ton; next to the *Major*, with a tunnel over 170 feet, and thence a general skirmish round among mines with excellent prospects, but as yet with little or no more work done than that prescribed by law to hold them. Seven hundred tons of ore are found on the dump at the *Ida*, but thus far the milling it has caused much loss. It is rusty flour gold, and quicksilver gathers only iron, letting the gold escape. Much of the ore is very rich, yielding by mortar and pan over $1 per pound. Half a dozen assays made to determine the full range of its value gave from $80 to $5,900 per ton. The *Baker*, like the *Ida*, is surrounded with ore with no way to work it. Summit is strictly a gold producing district, and when the new and better mills projected are in readiness for the ore, the work systematized, and the gold product closely saved, it will become one of the most important gold yielding centres in the country.



GLEN CANON.

We arrive at Lake City, after a twelve-hour ride, and spend the afternoon in and about Crookes' reduction works, the most extensive in southern Colorado, a mile and a half from Lake City up the Gunnison, at the head of Granite falls, the water-power of which is most thoroughly utilized. The main building covers an immense area, and is constructed on the sloping side of a hill, that gravity may carry the ore down from room to room in its course of treatment. Some 400 tons of base bullion were shipped from this one concern the past season, and with the greatly increased capacity by the addition of stamp mills, vanning machines, roasting and smelting and blast furnaces, the works will assume enormous proportions, and the handling of 100 tons of ore per day as readily accomplished as the 50 tons the past season. The Crookes own a number of very rich mines. At the lower end of the city we find the Ocean Wave smelting works, where there is now on hand some 450 tons of ore, more being received daily. The flux of iron ore, of excellent quality and in practically inexhaustible quantities, is obtained about eight

miles up Hensen Creek, and calc spar for the same purpose about four miles up the Gunnison. The power used is water taken from the river by a race, giving sixty-five-horse power. At the upper end of the town are the new sampling works of Titus & McClellan, where the ore is not reduced, but merely sampled by crushing to ascertain its value by assaying for purchasers. On Hensen Creek we find the new lixiviation works, popularly known as Van Geison's, which, though completed and commencing work late last fall, and running but two months before shutting down for the winter, showed a product of nearly $33,000. The first two weeks, seven bricks, 925 fine, and worth $11,000, were shipped, and three weeks later the total of ore separated was 203½ tons, producing sixteen bricks, weighing 21,431 ounces, worth $22,993.95. The *Dolly Varden* has produced the highest average ore of any mine worked, specimen assays having given $14,396.85 to the ton. Eleven tons one hundred and seventy-two pounds, treated at these works up to October 20, gave an average of 444.52 ounces silver to the ton. The capacity of the works at present is from eight to ten tons of ore per day, and the average per cent of silver saved is 93. Force of men required, 14; wages — without board — day laborers, $2.50 chloridizers, $4.

Leaving Lake City for a trip westward through Hensen Creek, the first mine reached is the *Ute and Ule*, discovered by Judge Hensen, one of the earliest prospectors in the San Juan country, and by him sold to the Crooke Bros. for $125,000. Four miles farther is the celebrated *Ocean Wave* mine with its 800 feet of tunneling and drifts marked out. Two miles farther on and we come upon the new smelting works at Capital City with capacity of 10 tons per day, and owned by Geo. B. Greene. Beyond, some distance, is Mineral Point, the transfer or unloading depot for ores packed over the range, and in the immediate vicinity is the *Dolly Varden* mine, of which detail has already been given. Mineral Point, or City, is the centre of a large and exceedingly rich mining country, a Milwaukee company alone having twenty-two mines in the immediate locality, and all of them patented. A New York company, of which Mr. F. J. Pratt, of Springfield, Mass., is superintendent, owns the *Boston*, near Mineral City, and has expended $10,000 in its development. The same company has located a cross-cut tunnel through Mineral Point Mountain which will intersect twenty-seven known leads. The *Mastodon*, a short distance up the North Fork of the Animas, was recently purchased by a Cincinnati company for $10,000.

Mineral Point being but two miles and a half from Animas Forks, the mining districts of the two points are practically one, and will be so treated. The Animas Forks Mining Company, of Milwaukee, Wis., has just completed here concentration works, with E. B. Greenleaf as superintendent, capacity ten tons per day to each jig, of which there are four of the Nevins patent. This company, early the coming season, will add the lixiviation process to their present works, when they expect to turn out the ore nine hundred fine.

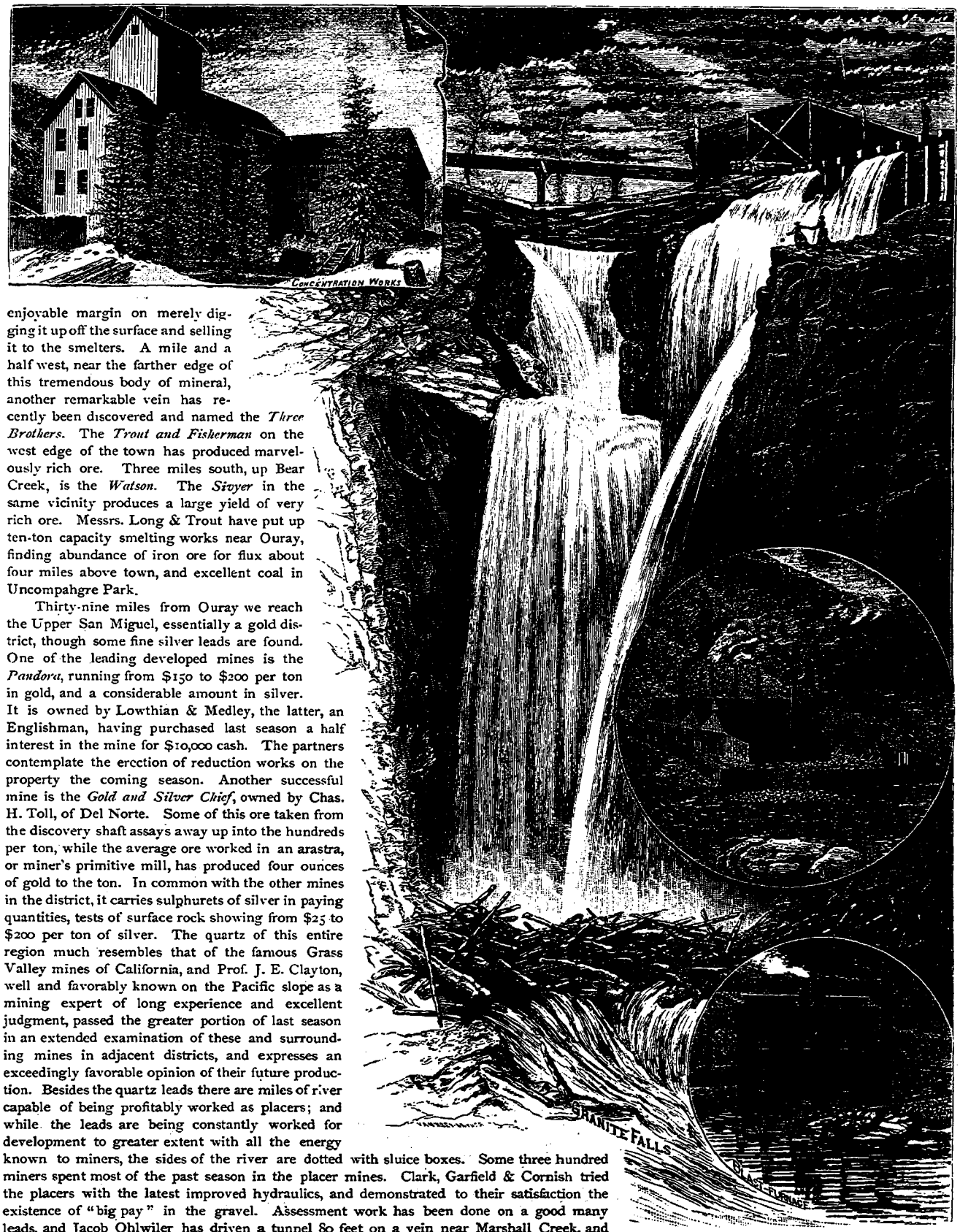
The Graham Silver Mining Company, with a capital of one million dollars, subscribed by many of the wealthiest and most reliable citizens of Sioux City, Iowa, has fourteen mines in this immediate vicinity, and which assay from $40 to $2,591 per ton in silver and gold. These mines are now ready for the power to work up the ore, and mills will be put in the present season. Another Iowa company, operating extensively here, is the Sioux City and San Juan, owning several very valuable mines, which are under the personal supervision of Mr. S. W. Raymond, of Sioux City. The Kansas City and San Juan Gold and Silver Mining Company, of which B. F. Jones, secretary of the Kansas City Water Works Company, is vice-president, owns three exceedingly rich mines in this neighborhood. Largely through the exertions of the gentlemen constituting this company, a mining and stock exchange has been incorporated at Kansas City, its members embracing many of the leading bankers and merchants of that young metropolis.

The Bonanza Tunnel Company has contracted for and has now under way a thousand feet of cross tunnel, which will tap the *Burrows*, *Vermilion*, *Dacotah* and *Yankton* mines, whose discovery shafts are on Mineral Point Mountain. There are innumerable other mines, many of which are referred to in the tabulated statement upon another page.

Following up the Lake Fork of the Gunnison at the mouth of Cottonwood Creek, we come upon Sherman, the location of several fine mines. Six miles above Sherman is Argentine, where Welch & Son are about building a concentrator of ten tons per day capacity. On the way back from Argentine to Animas Forks we strike Tellurium, where the Gunnison Silver Mining Company of Pekin, Ill., is putting up concentration works of a capacity of 15 tons per day. The company has a capital stock of $1,000,000, of which $800,000 has been placed. Half a mile down the Park from Tellurium is the *Del Norte* mine, upon which $7,000 worth of development has been done. It has been worked to a depth of one hundred and ten feet, and a thousand tons of ore taken out, running from $30 to $50 to the ton.

From Animas Forks to Ouray is twelve miles, and we stop for the night in a cabin that is built upon a solid mass of high grade silver ore 1,500 feet long, 900 feet wide, and estimated to be 1,000 feet deep. It is a remarkable freak of nature, but none the less valuable, as the owner makes a most

BLANCA PEAK.



CROOKES' WORKS AND GRANITE FALLS.

enjoyable margin on merely digging it up off the surface and selling it to the smelters. A mile and a half west, near the farther edge of this tremendous body of mineral, another remarkable vein has recently been discovered and named the *Three Brothers*. The *Trout and Fisherman* on the west edge of the town has produced marvelously rich ore. Three miles south, up Bear Creek, is the *Watson*. The *Sivyer* in the same vicinity produces a large yield of very rich ore. Messrs. Long & Trout have put up ten-ton capacity smelting works near Ouray, finding abundance of iron ore for flux about four miles above town, and excellent coal in Uncompahgre Park.

Thirty-nine miles from Ouray we reach the Upper San Miguel, essentially a gold district, though some fine silver leads are found. One of the leading developed mines is the *Pandora*, running from $150 to $200 per ton in gold, and a considerable amount in silver. It is owned by Lowthian & Medley, the latter, an Englishman, having purchased last season a half interest in the mine for $10,000 cash. The partners contemplate the erection of reduction works on the property the coming season. Another successful mine is the *Gold and Silver Chief*, owned by Chas. H. Toll, of Del Norte. Some of this ore taken from the discovery shaft assays away up into the hundreds per ton, while the average ore worked in an arastra, or miner's primitive mill, has produced four ounces of gold to the ton. In common with the other mines in the district, it carries sulphurets of silver in paying quantities, tests of surface rock showing from $25 to $200 per ton of silver. The quartz of this entire region much resembles that of the famous Grass Valley mines of California, and Prof. J. E. Clayton, well and favorably known on the Pacific slope as a mining expert of long experience and excellent judgment, passed the greater portion of last season in an extended examination of these and surrounding mines in adjacent districts, and expresses an exceedingly favorable opinion of their future production. Besides the quartz leads there are miles of river capable of being profitably worked as placers; and while the leads are being constantly worked for development to greater extent with all the energy known to miners, the sides of the river are dotted with sluice boxes. Some three hundred miners spent most of the past season in the placer mines. Clark, Garfield & Cornish tried the placers with the latest improved hydraulics, and demonstrated to their satisfaction the existence of "big pay" in the gravel. Assessment work has been done on a good many leads, and Jacob Ohlwiler has driven a tunnel 80 feet on a vein near Marshall Creek, and from an 18-inch pay streak has a yield of over $400 to the ton in gold and silver.

Eight miles more and on the east and southeast slopes of Mount Sneffles we come upon the famous mining district that takes its name from the mountain. Trails from the heart of the district lead east to Ouray, 9 miles south, to Silverton 16 miles, and southwest to San Miguel, 8 miles.

Although work on the leads in this district dates back hardly two years, there are already in successful operation some of the richest mines in the state. The first test made from blossom rock in the *Wheel of Fortune* gave 1,200 ounces of silver to the ton, and late last fall the mine was sold to eastern parties for $160,000. There are very many mines in this district other than those noted in the table, and that have been worked more or less, and give equally good promise of being rich.

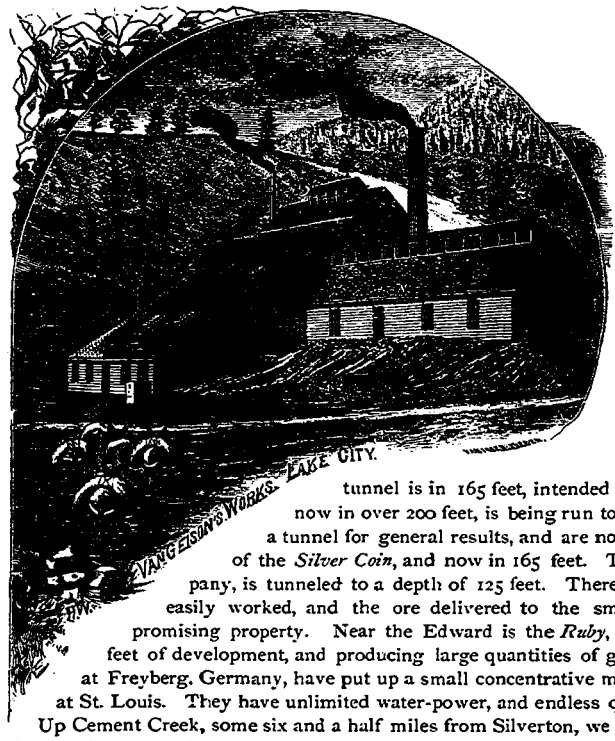
Leaving Mount Sneffles, we start upon the return trip to Animas Forks via Ouray, 19 miles, and from the Forks proceed to Silverton direct, 15 miles. On the way down the Animas we come upon the *Silver Wing* property, a rich galena ore, and for the smelting of which works are to be erected early this season. Striking Eureka Gulch, we find many fine mines more or less developed. An Ohio company, represented by Messrs. Winspear & Resor, are busily at work upon a lixiviation works here, and anticipate being ready to open up for business by the middle of May.

Four miles farther and we are at Howardsville, at the head of Cunningham Gulch; but as Silverton, four miles distant, is the real centre of this the greatest silver district in America, we will continue on, taking in Cunningham Gulch on the way. Niegold, Roedeli & Co's reduction and concentrating mills are just at the gulch, the machinery employed being a Blake crusher, a five-stamp mill and a Frue vanning machine. The most important mining property in the gulch is the *Highland Mary*, and other mines owned and managed here by Mr. Edward Innes, of New York, one of the most enterprising and extensive mine operators in all Colorado. On the original discovery and eastern and western extensions are six thousand feet of mineral, all of which will be reached when the system of tunneling now being pushed so thoroughly is fully completed.

It is the intention of Mr. Innes to erect extensive reduction works immediately upon fully developing the leads named, and also to construct a first-class toll road from Silverton to Antelope Park. Mr. Innes is originally from Poughkeepsie, N. Y., a gentleman of great wealth and indomitable energy, and believes the San Juan country to be the richest mineral region on the continent. In addition to the Innes mines, there are in Cunningham Gulch many others of great wealth of mineral.

Following on to Silverton, the first place we visit is the highly successful smelting establishment known as Greene's, the thoroughly efficient management of which has done more than aught else in the development of this gloriously rich region. The buildings are large and complete in detail, with a capacity of twenty tons per day. Upward of a thousand tons of ore were successfully worked the past season, and some three hundred tons of bullion, containing from 250 to 375 ounces of silver per ton, shipped east. Greene & Co., the owners of the mill, as well as of several of the richest mines in these parts, are Boston capitalists. The mountains in the immediate vicinity of Silverton are absolutely covered with almost inexhaustible mines, those in Hazleton and Sultan mountains being as yet the most extensively worked. The Melville Mining and Reduction Company also has works in full running order in this immediate vicinity. The main building is 70 x 100 feet, four stories in height, and the process the Stewart chloridization. The capacity is twenty tons per day, and all the ore the mill can work will be taken from the company's own mines in Sultan Mountain, which are sufficiently developed to establish their value. In the Hazleton district, first we find the *Aspen*, producing about four tons of ore per day, with a profit of $2,000 per month, the mine being worked the year round. The *Ingersoll* tunnel, projected for development, is now in 900 feet, and at 500 feet cut a blind lode with 18 to 30 inch vein of galena, gray copper and sulphurets, that is very rich; out-put

THE CITY OF THE GODS — WHITE RIVER.



about two tons per day. The *Susquehanna* is cut by the Ingersoll tunnel at 700 feet below the surface, and is also worked from the surface to a depth of 100 feet; ore similar to others heretofore described. *Mammoth*, within a thousand feet of the Susquehanna, is worked through a cross-cut tunnel that strikes the vein at 150 feet. The Ingersoll, Susquehanna and Mammoth are all owned by the same parties — Ingersoll, Higgins & Wason. The *S. L. D.* tunnel is being run to cut the same group of veins at another point, and is in 400 feet. It is expected to cut the *Legal Tender*, which, as does the tunnel, belongs to the Greene Company. The *LXL* tunnel at still another point in the same mountain is in 325 feet, and is being pushed with all dispatch. These, as well as similar enterprises of great magnitude on Sultan Mountain, were continuously forced ahead all winter, an innovation on the old habit of shutting down upon the approach of cold weather. They furnished work during the entire winter to some four hundred and eighty men, as many as could then be profitably employed. Of the other prominent mines on Hazleton Mountain are the *McGregor*, *Pelican*, *Prospective*, *Tom Paine*, *Silver Star*, etc.; On Kendall Mountain the *Raglan*, *Idaho*, *Letter G*, and many others, all on one vast lead running entirely across the mountain. In Sultan Mountain, a mile from town, is the *Ajax*. The capacity of this mine is a ton of ore per day to two men. The *Montezuma* tunnel is in 165 feet, intended to strike the same mineral vein the Ajax is on. The *Cart & Williams* tunnel, now in over 200 feet, is being run to develop the *Dora* mine. Greene & Co., of the smelting works, are running a tunnel for general results, and are now in over 500 feet. Near by is the *Centennial* tunnel, for the development of the *Silver Coin*, and now in 165 feet. The *Empire* mine, owned by the Knight, Slocum & Melville Reduction Company, is tunneled to a depth of 125 feet. There are numberless other mines and leads in the Sultan Mountain, all of them easily worked, and the ore delivered to the smelter at cheap rates. Up in Burns Gulch is the *Edward* mine, a very promising property. Near the Edward is the *Ruby*, and farther up the gulch is the *Tom Moore* and *Byron* mines, each with 140 feet of development, and producing large quantities of good ore. Profs. Smyth and Peterson, graduates from the School of Mines, at Freyberg, Germany, have put up a small concentrative mill, of ten tons capacity, in the gulch, and ship their product to refining works at St. Louis. They have unlimited water-power, and endless quality of rich ore, and contemplate enlarging their works at an early date.

Up Cement Creek, some six and a half miles from Silverton, we go for a visit at Dow & Waters' works, situated at the forks of the creek, one of which leads near Poughkeepsie Gulch, and the other over near Eureka. Two and a half miles from the forks is the summit of Uncompahgre Mountain, where are quite a number of noted mines: the *Saxon*, running $1,700 silver to the ton; the *Alaska*, $997 silver; the *Poughkeepsie*, 93 ounces of silver; *Bonanza*, 100 ounces; *Acapulco*, 100 to 300 ounces; *Adelphi*, 200 ounces; *Mineral Farm*, 200 ounces; the *Red Roger*, *Columbia*, *Tribune*, etc., three mines all well developed and producing large quantities of ore. There are also a number of fine mines on the other fork, and all of them on both forks within three miles of the reduction works, and from which the mill expects to keep up its supply of ore. The proprietors of the mill have laid out and are building an excellent trail to Mount Sneffles, to tap that rich district, it being but seven miles distant by the new route. Messrs. Dow & Waters have invested no little amount of money at this point, their works being of a very extensive character. Capacity, 20 tons per day. The method of reducing the ore is almost exactly the same as that of Van Geison's works at Lake City.

Returning to Silverton, we have the pleasure of meeting Mr. M. S. Beach, just in from the new district over near the Needle mountains, and his information being both interesting and reliable, it is jotted down for future reference. The Needle mountains are situated between the main Continental range and the Animas river, and are drained by the Vallecito and Florida rivers. Up to the past year the region has been almost entirely unexplored by prospectors, and even now there is an immense territory filled with rich mining property awaiting only development. The only portions of this district ever prospected are those upon the different tributaries of the Vallecito. Across the country runs a belt of silver-bearing leads about eight miles in width, and apparently a continuation of those in the vicinity of Silverton, extending in a northwesterly and southeasterly direction. From the summit of any one of the mountains vast leads can be seen as far as the eye reaches that have never yet been located, and are therefore open to the first comers. The ore, so far as it has been examined, is of high grade, and the district gives promise of proving one of the richest and best so far discovered. Beach, Kneeland & Co. located a number of mines in this new district last year, and this season they purpose to work them extensively. A good wagon-road is already made by way of Terra Amarilla, and another could readily be made by way of the south fork of the Rio Grande, connecting with the main road between Lake and Del Norte, making the distance not more than eighty miles to the latter named point.

We are now ready for the return trip, having finished the tour of the principal mining centres of the San Juan country. While cogitating as to the route to be taken back,—for we can go via Lake City to Del Norte, or via Antelope Park to the same point, or via the new road up the Animas to Conejos, or via Lake City to Saguache,—one cannot but marvel at the development, wealth and future promise witnessed in the eighteen days consumed on the tour just made. Whether the return be to Del Norte, Conejos or Saguache, the time will be about the same so far as reaching the outer borders of the mining country. The expense of the trip, with Del Norte as the starting point, does not exceed $150, while the time in the mining districts could be doubled, and the expenses still kept within $200. Say the party desiring to do this same trip starts from New York. Securing the advantages of the round-trip tourist's ticket, via any of the lines leading to Kansas City or Atchison, thence from either point to Pueblo direct via the Atchison, Topeka & Santa Fe, his fare both going and returning, as well as sleeping-car and meals, is not more than $100. Fare from Pueblo to Garland and return, via the Denver & Rio Grande, $20; and from Garland to Del Norte and return, via Barlow & Sanderson's stage line, including meals, etc., $20, or say $30, to cover all possible expenses. These are all outside figures, and make the entire expense of a trip from New York to the San Juan country, an extensive tour of all its principal points, and the return to New York, $300. This includes strictly first-class accommodations throughout. Of course the prospector, miner, and working classes generally, receive very much lower rates, and can reach the mines at a remarkably light expense, considering the distance to be traveled. The estimate of expenses given in detail is, however, for those of means, who in making the journey not only gain a thorough insight into the extent, resources and wonderful wealth of the San Juan country, but at the same time secure a relaxation from the cares of business at home, enjoy experiences none the less pleasing for their genuine novelty, and behold such scenery as no other section of the continent affords, and all at an expense that would be deemed but trifling for a couple of weeks at any of the monotonous watering or other fashionable resorts near home.

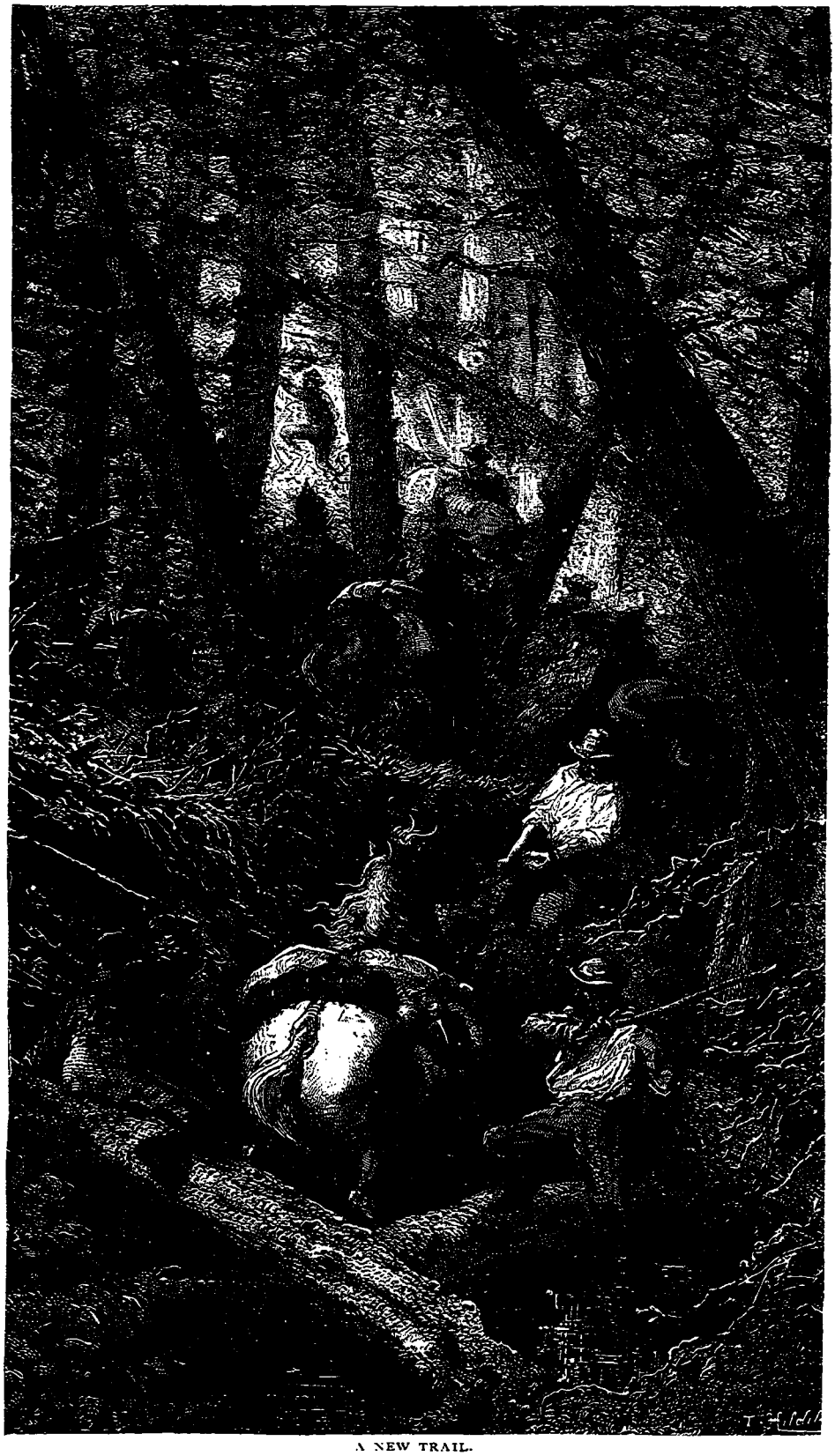
The trip made has been eminently a practical one, confined simply to the mining interest, with no attention, other than in passing, to the grandeur of the scenery, the manifest prosperity of the cities and towns, or the unmistakable evidences of social cultivation and progress, putting to most abrupt flight any notions one may have had of a crude, rough and lawless state of society in these parts. The very opposite of all we were taught to believe as the inevitable result of the gathering together of those engaged in mining pursuits, is one of the most striking characteristics of the San Juan country, for nowhere on the continent can be found — the newness of the country, ruggedness of location and other disadvantages incident to improvements of mountain town sites taken into consideration — neater, more tasty or attractive appearing little homes than

through this entire region. Nestled in the deep, rich foliage under the overhanging walls of some mountain giant, almost hidden in the shade of towering cliff, or standing out clear upon some broad, smooth bench of rock hundreds of feet up, these cosy little homes have a charm of novelty about them absolutely refreshing even to the dwellers in the marble or brown-stone palaces of the East. The dread one may have had before coming here of meeting the traditional miner face to face in his own rocky lair, the visions of uncouth, ruffianly presence bristling with murderous weapons, of deeds dark and foul, and existence second only to the infernal regions, all take winds as the imaginary succumbs to the reality. There are, as a matter of course, bad men of all grades here as elsewhere, but no more is this section a hell than is New York, and no more is it a paradise than is Boston. The San Juan, if a country entirely devoted to mining interests, is none the less rigid in enforcing the law, in maintaining order and insuring safety of life and property, than the commercial centres of the East, and if so remote from the hubs of social, artistic and literary cultivation of the older sections, is even more zealous, so far as opportunity goes, in throwing these refining and elevating influences about home and hearthstone.

Hardly a dozen violent deaths have occurred in all the San Juan country since its earliest settlement, and though saloons and dance houses are the unvarying rule in certain sections of every town, the maintenance of peace and quietude is so generally and thoroughly enforced as to render disturbances of serious character of rare occurrence. On every hand one sees schoolhouses, churches, and frequently public buildings containing libraries of no mean extent, and were it not for the mountains, pines and dashing cascades, could almost imagine himself in some New England village suddenly awakened to the fact that there is a something in life having no immediate relation whatever to the bones of the Pilgrim Fathers, the color of one's blood, or the pedigree of one's connections. The towns here are a good deal like asparagus, for, figuratively speaking, where you see naught but the bare ground at night, you the next morning behold a healthy and rapidly developing centre of business. None of the leading points are more than two or three years old, and several of them hardly out of their first year, yet the ruling prices for the substantials of life are by no means as high as many people might imagine. In the way of groceries, sugar runs from 12 to 15 cts. per lb., coffee 22 to 28 cts., dried fruits 10 to 12 cts., candles 20 to 25 cts., canned goods, vegetables, fruit, etc., 15 cts. per lb., soap 8 to 10 cts., rice 15 cts., hominy 8 to 10 cts., crackers 10 to 20 cts., syrups $1 to $2 per gal., beans 5 cts., potatoes 1 ct. and onions 5 cts. per lb. In the way of provisions, beef runs from 5 to 8 cts., pork 12 to 20 cts., mutton 12 cts., flour $5 per 100 lbs., corn meal $3.50. There is a great abundance of game in the San Juan market at all appropriate seasons, often so much of it that the prices rule exceedingly low. In the dry-goods line, best prints sell for 8 cts., bleached muslin 10 to 18 cts., unbleached same, jeans 18 to 60 cts., cottonades 35 to 70 cts., overalls, common, 75 cts. to $1, and "California overalls" $1.50 to $2, Lonsdale 15 cts., Bates Mills and King William, the same. General merchandise runs, mackerel per kit $2.50, salmon $3, whitefish $3, herring $2.50, rifle powder 50 cts. per lb., blasting powder $4 per keg.

The San Juan country has in itself all the accessories necessary to its future development. There is any quantity of timber both for fuel and building purposes, with a sufficient number of mills now in operation to supply the market, the prices on lumber running from $18 to $25 per thousand feet, shingles $5 to $7 per thousand, nails run from $6 to $8 per keg, lime 60 cts. per bushel, and building brick from $8 to $10 per thousand. Brick can be had burned or unburned, or what is cheaper still, Mexican adobe, while if stone is preferred, that of fine quality for the purpose can easily be obtained in sufficient quantity. A peculiar quality of lime that can be used both in cementing walls and also for plastering, without either burning or slacking, is found near Lake City. There are at several points, and well distributed, large and valuable deposits of excellent bituminous coal, and it is claimed that anthracite coal has been found in quite a number of places. An abundant supply of soft, clear and cold water is found everywhere, even on the highest mountains. Root vegetables, such as are used for culinary purposes, together with beans, peas and cabbage, grow in great abundance and of the most perfect quality. Currants, red raspberries and strawberries grow wild in the most luxuriant profusion. The altitude is too great for the production of cereals. Corn sells for from 60 to 75 cts. per bushel, oats 50 to 60 cts., and hay $6 to $8 per ton. With the extension of the Denver & Rio Grande Railroad from Garland to Alamosa early this spring, and probable connection with Del Norte, the cost of transportation to the San Juan will be materially lessened, as freight will then go without breaking bulk to the very entrance of the mining country. The system of wagon roads throughout the mining districts is now so complete that the transportation of machinery, merchandise, etc., is accomplished at very much less cost than even as late as the past season, and the time required in reaching various points materially shortened. The Mexicans, of whom there are quite a large number in and about this country, are natural-born teamsters, and the rivalry existing among them in competing for business has caused a decided fall in rates. Many of them have made sufficient money to get together one, two, three, and some even more teams, while there are any number with single outfits. This does away with the former scarcity of means of transportation, and one can get in the machinery for a thirty-stamp mill now for not only half the expense of a five-stamp a year or two ago, but in one fourth the time. The building of new roads in thus facilitating the transportation by teams has also operated to the decided advantage of the traveling public, as Messrs. Barlow & Sanderson, of the splendidly appointed stage system taking its name from them, announce the opening of several new stage routes this spring, and they further declare their intention of continuing the enlargement of the territory covered by them by putting on new lines as rapidly as new roads are completed.

There is one thing that cannot be impressed too strongly upon the minds of those of moderate means, who, in the crowds of millionaires in the great money centres of the older sections of the country, are almost if not completely barred from operations yielding large profits, and that is the fact that the San Juan country is as yet hardly in the first stages of development. Almost everything accomplished thus far has been the work of preparation,—the making the country accessible, and securing such mechanical facilities as would insure realizing from the ore after its dislodgment from the mountains. In going over the details of the jaunt through the mining districts, it cannot but be noted that the proportion of the mines opened to a depth of one hundred feet and upward to those opened to less depth is very small, hardly one in fifty, while the proportion of mines but barely prospected is very much greater; hence the field actually explored compared to that merely skimmed over is really nothing, while of the country not even prospected it may truly be said there are very oceans of it. There is absolutely no limit, at least for generations to come, to the mineral wealth of the San Juan, and just now, with the different districts opened up by roads where a year ago there was not even a trail, with the increased facilities for transportation both by rail and wagon, and, above all, the certainty of the free coinage of silver and its consequent standard value in the country, opportunities without number are offered whereby a moderate amount of money will suffice for returns that ordinarily would not result from the investment of fortunes. The existence of the mineral is as certain as the demonstration of any fact can make it certain. The place of its deposit can be ascertained readily and with certainty, and whether in paying quantities or not, may be settled beyond peradventure. Nothing can possibly be more erroneous than the impression in the minds of some people that there are great risks in investing capital in mines. The causes leading to such an impression are always to be traced to some swindle with an imaginary or "planted" mine as the ostensible bait, but the only real basis upon which the scheme is worked up is the gullibility of those who go into it pretty much as those who snap at the counterfeiter's advertisement to sell $1,000 for $5. The result is the same in both instances. The safe way to invest in mines is as in everything else,—first see, and, if satisfactory, buy. That an immense amount of money has been lost in mining schemes, in the perfect folly of giving some young fellow, who never saw a mine, a mint of money to go and buy it with, in falling blindly into the mining traps set by sinful schemers, and in a hundred other ways, is as true as it is that many of the greatest fortunes of the age have been made by men of moderate means, and in more than one instance by the humblest miners working at day wages. Jerome B. Chaffe, U. S. senator, and one of the richest men in Colorado, is an exemplification of the fact that fortunes are as liable to fall to the miner as to the mine owner, and a round dozen other almost as wealthy men as Mr. Chaffe might be named in this state who, as a military man would say, have risen from the rank and file. In the San Juan country, as everywhere else, much, if not indeed all, depends upon the mettle of the man, and those anticipating the realization here of an entirely New Jerusalem, wherein they have to but gather the gold, with which the streets are paved, had better remain at home, for certainly in their case the bliss of ignorance would be far preferable to the folly of becoming wise. While this is, perhaps, the richest mineral country in the United States, it is not a district where parties can



A NEW TRAIL.

come with pick and shovel and pan certain of returning rich. While there are undoubtedly exceedingly rich placer diggings in more than one section of the San Juan, quartz mining is the main reliance, for the mountains are filled with the fissure-veins of silver and gold, and the cañons and gulches with stamp mills, reduction, lixiviation and smelting works to extract these most precious of all metals from the quartz, and thus reach the same result as does the placer miner in his pan. Heretofore the want of good roads has practically suspended operations during the winter months, but the past winter work on many of the tunnels and mines progressed as in summer, and the coming winter there will probably be little, if any, "shutting down" as cold weather approaches. The climate of San Juan is delightful. In the summer the days are comfortably warm, and the nights uniformly cool, and as a general rule a fire is by no means distasteful. The air is dry and rarefied, but little rain falling except during the months of August and September. The spring and fall are of a temperate character; and although in winter the temperature falls several degrees below zero, the cold is not felt as severely as where the difference between the summer heat and the winter cold is greater. The mean temperature of the summer and winter is more nearly alike, consequently the change is not marked in its character.

As regards an outfit for prospecting, the simplest is the best. Substantial clothing, three double blankets, three woolen shirts, heavy boots, one poncho, coffee pot, frying pan, camp kettle, knife and fork, coffee mill, tin cup, bake oven, bread pan, three tin plates, teaspoon, two tablespoons, make a sufficient outfit. Miners' supplies rule at Del Norte: pick and handle $2, shovel $1.25, ax and handle $2, blankets $3 to $5, boots $5 to $7, rubber boots $6 to $7, flannel shirts $2 to $4, common saddles sell from $8 to $15, and bridles $1 to $1.25, pack saddles $3 to $5, common halters per pair $1.50, nose bags $1 to $1.50, and ordinary sets of harness from $18 to $30. Freight wagons with California brakes run from $120 to $130, horses $35 to $60, jacks $15 to $25, four-spring wagons $200, three springs $165. A car load of freight consisting only of personal effects, such as household goods, farm implements, wagons, etc., may be shipped on the Atchison, Topeka & Santa Fe Railroad from either Kansas City or Atchison to Garland for $145.

Any person who is a citizen of the United States may locate, record and hold a mining claim of *1,500 linear feet* along the course of any mineral vein or lode subject to location; or an association of persons, severally qualified as above, may make joint location of such claim of 1,500 feet, but in no event can a location of a vein or lode exceed 1,500 feet along the course thereof, whatever may be the number of persons composing the association, or more than 300 feet in width. The importance of thoroughly understanding the manner of locating mining claims in the San Juan country cannot be overestimated. The safest and best preliminary step is to write to T. J. Anderson, Topeka, Kansas, for a circular containing the law as to the locating of mining claims, which will be sent without cost to those applying for it.

THE ELK MOUNTAIN DISTRICT

Lies in Gunnison county, 80 miles northeast of Lake City and 125 miles west of Colorado Springs. It is reached from the former point by the Saguache and Lake City, and from the latter by the Cottonwood, toll roads. It is also easily accessible from Cañon City, Pueblo or Garland, via Saguache and Gunnison City. The Elk Mountains are a western spur of the Rocky Mountain range, and the mines lie southwest of and in the same mineral belt as California Gulch. The ores are generally galena at the surface, wit i the usual characteristics of all lodes, gray copper or ruby and brittle silver, and at times native silver, as greater depths are reached. The principal district is on Rock Creek, a tributary to the Grand, although a large number of leads and the principal placer diggings are located on East and Slate rivers, which flow into the Gunnison. There are no mills or machinery in operation in this district, but at least two smelters will be running early the coming season. From the absence of milling facilities no extensive operations have been carried on, but a mill run made at Lake City, from surface ores of twenty different lodes in this district, gave an average of upward of 80 ounces of silver to the ton. No tests for gold were made, although all assays give a larger auriferous showing than most mining districts.

THE SANGRE DE CRISTO DISTRICT

Is in that portion of the western slope of the Sangre de Cristo range opposite Saguache, and is reached by wagon from Garland to Pole Creek, a distance of but thirty miles from the railroad. Large numbers of veins of gold-bearing quartz are found in this district, and their richness, dimensions and accessibility are such as to command the thoughtful attention of both miner and capitalist. Generally speaking, these veins are in the primeval granite, between well defined walls, and are apparently true fissures. The mines average less than 500 feet above the level of the valley —San Luis—and, no foot-hills intervening, are readily reached. From Sierra Blanca northward to Poncho Pass nearly every creek gulch shows rich "float," and judging from what has already been done in the various mining camps, the mineral belt must be of exceedingly great extent and richness. The notable mine in the "Burnt Gulch," the most northerly of the mining districts, is the *Desperado*, with a 5-feet vein of gold-bearing quartz, assaying high figures. It is reported that negotiations are pending for its sale to an English company for $100,000. At Cottonwood are two large arastras and two stamp mills in operation. Two miles farther south is Pole Creek, where the richest "strike" of the past season was made, the *Esther* mine, opened at a depth of eight feet. The *Indianapolis* is another very rich mine, its walls two feet six inches in width, and assays exceeding $100 to the ton. A half mile up the creek is the *Dexter*, with 3-feet vein, 1-foot pay streak, ore assaying $230. Near by is the *Golden Gate*, with vein over six feet between well defined walls of slate and granite, and opened by six cuts. The ore is remarkable for its wire gold in galena, also coarse free gold in the quartz. The lixiviation process is peculiarly adapted to the ores of this district, there being so much copper in them that by saving it the cost of reduction is largely lessened, and in some instances entirely offset. This is an important feature, economically considered, and deserving of especial attention from mill owners.

THE CHALK CREEK DISTRICT

Includes the waters of Chalk, Brown and Cottonwood creeks, tributaries of the Arkansas, and centering about 80 miles above Cañon City. The district is readily reached by stage lines — Barlow & Sanderson's from Cañon City to South Arkansas, 61 miles; thence by private lines to Alpine, 20 miles, and the centre of the mining operations, which at present are entirely confined to Chalk Creek and its branches. Though mining has been carried on here for three years, it was not until the erection of the reduction works now owned by the Kansas City Mining and Smelting Company that much was accomplished toward permanent development. During the year past many discoveries were made of high-grade ore, and enough was taken out to continue the operation of the smelter until late in the season, and still leaving much upon the dumps to make an early start upon this spring. There are many mines of exceeding great value in this district, and possibly the most notable is the *Tilden*, on the summit of Boulder Mountain, it showing a vein from 5 to 9 feet in width, and three classes of ore: first, galena, from 2 to 18 inches in thickness, assaying from one to four hundred ounces to the ton; second, decomposed sulphurets, from 6 to 12 inches thick, assaying two to three hundred ounces; and third, a porphyritic rock carrying native silver, running from one to two hundred ounces. This mine was not discovered until late last spring, and has only been opened to any extent within the past six months. It is owned by five miners, who prior to its discovery were poorer than Job's turkey. Some months ago they were offered $100,000 cash for the mine, and negotiations required but the signatures to consummate the sale, when they concluded to retain possession themselves, satisfied that there was much more than a hundred thousand in the property. The *Pat* and *Mary Murphy*, parallel seams upon an immense lode where the walls have not been found, yield ore that has a value, in gold, silver and lead, of $75, as shown by the mill runs. There is another large vein, with width between walls from 4 to 12 feet, and the ore of same grade as the Murphys. The Murphy mines, as well as many others in this immediate vicinity, are owned by the Kansas City Mining & Smelting Co., in which John J. Mastin and his brother Thomas, two of the wealthiest bankers in the Missouri Valley, are the controlling stockholders. On the east side a party from Clarksville, Mo., are running a cross tunnel, with steam drills, to cut a large number of leads, it being the intention to push it entirely through the mountain. Another tunnel, known as the *Lake View*, is being carried through no less than 25 leads, visible from the surface, and one of them, the *Virginia*, producing ore assaying 480 ounces of galena. This tunnel is being worked by hand, laborers on it receiving from $2 to $2.50 per day. The Campbell Brothers, of Topeka, Kansas, are building concentration works of 25 tons capacity to handle the ore from this tunnel, and in connection with the mill have opened up three mines, the *Jennie*, *Little Maud* and *Mountain Quail*. Over the range, 18 miles from Alpine and 10 miles in Taylor Park, is quite an extensive and rich gold placer district, wherein there is a great plenitude of water to carry on operations. Chalk Creek has its source in the Saguache Valley, and it can readily be followed by wagon and trail 10 miles over the range, thence into the Gunnison Valley and on to Ouray.

THE CALIFORNIA GULCH DISTRICT,

Of which Malta is possibly the most important centre, is 45 miles from the foot of Chalk Creek, up the Arkansas Valley, and the road such that the distance can readily be made in a day's drive. The route from Cañon City is via South Arkansas and Centreville, and the distance 136 miles. From Colorado Springs to Malta is 115 miles, via stage to Fairplay, and thence by hack. If private conveyance is preferred, excellent

teams, etc., may be secured for the trip at either Cañon City or Colorado Springs, at moderate cost. If prospecting is the object in view, it will perhaps be advisable to purchase a regular outfit, including such means of conveyance as can be afforded. Horses and wagons can always be disposed of without trouble in the gulch, if not for the original outlay, at least for a sum sufficiently near it to make the cost of transportation very much less than by any other way.

California Gulch as a gold diggings is nothing new, as some ten or twelve years since it was peopled by from eight to ten thousand miners, strung along the creek washing gold from its rich bottoms. California Gulch as a silver region is, however, of a much more recent date, the first discovery dating back only to the winter of 1876, when Pat Gallagher, a then wretchedly poor miner, found the since famous *Camp Bird*. Now the whole ridge is covered with shaft-houses and dumps. Malta, Leadville and Oro lie only three miles apart, and are the towns or camps about which the interests of the district centre. Most of the mines are of very recent discovery, and are not sufficiently opened to admit of extensive working, and yet the record of their "out-put" is almost unparalleled. Five mines — the oldest of which is not over six months — located in one group about a quarter of a mile from Leadville, have already produced upward of $100,000. The *Carbonate* has a shaft 45 feet in depth, with three levels diverging from the bottom, the longest of which is not over 25 feet, and in six months it has produced $65,000 worth of ore. At present, with the work of six or eight men, from $3,000 to $3,500 is being taken out every week. One of the most remarkable mines in the district is in leads three feet in thickness, the ore from which yields from 240 to 270 ounces of silver to the ton, and lies like a coalbank in a stratification of limestone, dipping about 15 degrees. Two openings have been made at points 600 feet apart, and sufficient ore is in sight to make millions of the "dollars of our daddies." The owners have gone far enough to know that there is a full acre of the ore in the one solid body, and some conception may be formed of the amazing richness of this discovery by a brief calculation of its dimensions. A cubic foot weighs 170 pounds, and, as the ore lies, 12 cubic feet make a ton. There are 43,560 square feet in an acre, and the acre of ore, being three feet in thickness, makes 130,680 cubic feet, which, with 12 cubic feet to the ton, makes 10,900 tons, worth $250 per ton, or the enormous value in the aggregate of $2,700,000. The mine belongs to Messrs. Wood & Stevens, of Detroit, Mich., to whom all doubters as to the absolute reliability of the statements made are respectfully referred. The *Crescent* is another mine worked like a coalbed, the ore lying horizontally in the large room that has been opened, the roof being held up by heavy timbers with very stout caps and tugging poles. The ore breasts from a foot to three and four feet, and occasionally very fine specimens of horn silver are found. The openings of the *Yankee Doodle*, made quite recently, show a considerable quantity of very rich ore in sight, and assays have been made as high as 800 ounces in silver and 50 per cent lead. A mile farther, and up the hill, lies the noted Gallagher property, by many declared the richest in the gulch. It is entered by a tunnel some 200 feet in length, with levels running from it into the ore bodies. The sides of the tunnel are simply solid masses of ore from floor to roof, and although scarcely anything but "dead-work" has as yet been done, the "out-put" already exceeds $140,000. A specimen assay made from this tunnel gave the astounding result of 502 ounces of silver, 2½ ounces of gold, and 65 per cent lead. From the opening made, 100 tons per day could readily be taken out, and the value of the ore in sight is estimated at $350,000. A peculiarity of this work, and a feature of wonderful advantage, is its cheapness; powder is hardly ever used, "gadding" and picking answering all purposes. The average cost of mining per ton is under $5.

At Leadville the St. Louis Smelter Company have a thoroughly equipped furnace, capable of breaking 20 tons every 24 hours. Here the low grade ores are run down into bullion, and shipped over the Atchison, Topeka & Santa Fe road to St. Louis, for refining, the same company buying high grade ores, and shipping to the home works for treatment. At Malta Messrs. Berdell & Witherel are running a sampling mill, and sending their purchases to Omaha, so that even now, without direct railroad facilities, the miner can obtain ready money for his product, and at a very fair rate. There are, in all, upward of 500 mines opened in this district, a specimen from the *Printer Boy* having taken the prize at the Centennial for gold ore.

The following are the official footings of the gold and silver product of Colorado for the past five years:

1873.	1874.	1875.	1876.	1877.
$4,070,000	$5.362,000	$5,430,000	$6,991,247	$7,913,411

The total product of the mines of Colorado to January 1, 1878, is estimated at $71,000,000, and the estimate for 1878 is placed at $9,000,000.

UPPER TWIN LAKE.

A DAY'S SPORT WITH ELK.

HUNTING AND FISHING.

AT whatever season of the year the start for the hunting or fishing grounds be made, time can be spent to the best advantage along the line of the Atchison, Topeka & Santa Fe road, as it runs through the Cottonwood and Arkansas valleys, across the great plains, and thence to the very gateway of the hunting and fishing fields of southern Colorado. If in spring, the snipe and ducks are at their best along the Cottonwood and Arkansas rivers, and the prairies covered with the sickle-bill curlews. If in summer, the prairie chicken shooting season has just opened, and the young birds are swift of wing and delicious of meat. If in the fall and winter the Arkansas is almost alive with geese, brant, duck, crane, and not infrequently swan. As the way farther west is made, the antelope-feeding grounds are reached, and just beyond them the great range of the buffalo. If pressed for time, one can stop for a day's quail shooting at Topeka; another day, for chicken shooting, at Sterling; the third day, for geese, duck and snipe, at Great Bend; then three days at Lakin, one for antelope, and the other two for buffalo. Thus a week spent on the line of the Santa Fe, the mountains are less than a day's journey beyond, and the sport there made subject to such time as one has at command. The best course to pursue is to press on southward, say to Del Norte or Wagon-Wheel Gap, and thus reach a centre not only for large and small game of almost every description, but for the finest trout fishing in the United States. Returning by a different route, you work up the San Luis Valley; cross the range over into the Twin Lake country; thence to South Park into Middle Park and then progressing through North Park, follow Black Cañon down into Estes Park, the hunting and fishing grounds of Lord Dunraven, of England, and after a day or two's sport there proceed direct to Denver. This would make a month or six weeks of indescribably rare sport, both hunting and fishing, and the expense comparatively trifling.

To those who may contemplate two or three weeks, a month, or possibly more, in the valleys of southwestern Kansas, and thence over the plains to the mountains, in quest of sport with gun and rod, the personal experience of those who have spent many delightful weeks throughout the region named cannot but prove of interest.

The Atchison, Topeka & Santa Fe is preëminently the sportsman's road, and it would indeed be odd if, with so many great lovers of hunting as are numbered among the officers of the company, there should be any difficulty whatever in visiting sportsmen receiving every possible attention and facility in reaching the hunting grounds of southwestern Kansas and Colorado. Dogs are carried free over the Santa Fe road, being taken care of in the baggage car, no charge whatever being made for them or for guns and ammunition. If in gun case, the passenger may retain his gun in the car, otherwise it goes into the baggage car; or, if preferred, he can have the baggage master take care of it, in case or loose, receiving a claim check, which he can present to the baggage master at any station where the train is left and receive his property.

The morning following arrival in Topeka, our party for a quail hunt is picked up by the team, and with an early start over a splendid road, and with every indication of a glorious day so far as the weather was concerned, it certainly appeared as if the rest was all left to us.

Five miles from Topeka "Dash" stood staunch at a perfect point, with "Frank" backing him in grand style. Out of the wagon we crept, but despite all of Brown's characteristic caution he stumbled over a pile of brush, and quick as lightning up went a pair of birds, and with them three more that the dogs had pointed. Jones, who is an exceedingly quick shot, "downed" one and knocked feathers out of another. The country we were in was a mixture of prairie and brush, the latter running back some distance from the banks of the river. Smith took one of the dogs, and worked through such portion of the underbrush as would permit of it, while Robinson with his dog and Jones with his worked the centre, leaving the outer flank to Brown, myself, and the dog Frank. The other side of us not more than thirty yards was a long hedgerow, and just beyond, a large field of wheat stubble, where many of the birds were still feeding, apparently in no haste to join the others for their siesta in the brush by the river or the hedgerow nearer by. Was ever the lay of the ground more auspicious? We were between feeding ground, watering place, and noonday shelter, with the Judge to flush the birds from the brush, Robinson and Jones to mark them down as they flew into the open, whether from the brush

or from the feeding ground and hedgerow on our side. I glance over toward the brush just in the nick of time to note the Judge's tall figure looming into view, his gun at a ready and his dog evidently at a point. Like a flash a bird breaks from cover, and at the same instant the butt of the Judge's gun is at his shoulder, and as the eye quickly runs along the barrels there comes a flash, and plump goes the bird. Up flies its mate, away goes his second barrel; but the range is too great, and Robinson, fortunate in having the bird come within his range, gets him. And now the sport commences in dead earnest. Brown half breathes an ejaculation to me, as "Frank," with head to the ground and tail excitedly whipping his flanks, is "roading" a bevy of birds. Half crouching, he advances until his instinct tells him he cannot with safety get closer, when he stops, with tail extended stiffly, one foot raised, his head rigid as if sculptured of stone, and his nostrils quivering and foam-flecked. Perfect as a carved statue, the iron rigidity of his form evinces not the slightest change as we advance. Up flash the birds with dazzling rapidity, but Brown coolly covers the two outside flyers, leaving me to shoot excitedly into the bunch, the result being two for him and one for me. In the meantime Jones and Robinson are having their fun, and the frequent discharge of the Judge's gun testifies that in the way of real, downright enjoyment he is not a whit behind the others. At noon we repair to the wagon, and, driving to some cosily sheltered spring, partake of lunch, while the horses are being watered and fed. A half hour's lazy lounging about, rapt in the delights of cigar or pipe, and we are ready to commence the afternoon's sport, concluding it in time to arrive back in Topeka about sundown, with something over one hundred quail. In Kansas the quail-shooting season opens September 1, and closes February 1.

The next thing on our programme is a day's sport with the prairie chickens of Kansas, of which we have heard so much, and the objective point, Sterling, in Rice county. A nine-hour ride, a cordial welcome from the land agent of the Santa Fe at Sterling, a comfortable tucking in our little beds and the general turn out at daybreak the next morning, each and every one of us declaring that to lie longer in slumber on so glorious a morning would be positive sacrilege.

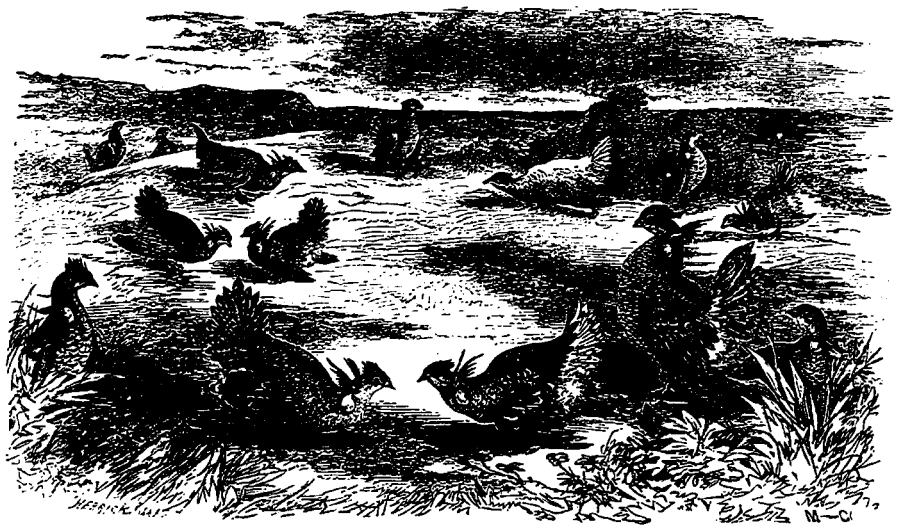
Could it be possible to make a finer hunting ground than this grand expanse of swelling prairie,—this thickly matted buffalo grass just high enough to afford fine cover for the chickens, and not too high for the dogs to work to the utmost satisfaction, both as regards themselves and the men-folk behind them? Hardly have the dogs been commanded to "hie on" before "Bangs" strikes the faint scent where a covey of the birds have but a few moments before been hiding, and in an instant "roads" them, with every vein in his sleek brown body standing out like whipcords. The birds are running in the grass, for barely has "Bangs" come to a full point before "Ranger," some fifteen yards from him, crouches into the tangled growth carpeting the prairie, until his long, fleecy and brilliant-yellow coat looks like some bunch of autumn verdure. It is warm and clear, and with a grandly proportioned corn-field near at hand the chickens are loth to exert themselves. They lie close, and so many steps do we advance ahead of the dogs that to one not knowing the cunning of the prairie bird the conviction would almost force itself on the mind that both pointer and setter were playing false. Just as something of this sort was creeping over me, swish flashed an old cock-bird so close to my nose that I involuntarily made a lunge at it with my gun, so bewildered that I never dreamed of shooting. The Judge, not daring to shoot, owing to my being within range, held up until the bird was out of range; but Jones let fly, shot clear over, and thus the laugh was on all three of us. "Look sharp," whispered Smith; "the hen-bird is here with a covey, and we will get 'em up one at a time." Sure enough, up popped a youngster not twenty feet distant, and he was my meat. It had not touched the grass before the Judge flushed a pair, and nipped them both in exceedingly pretty style. Another youngster up, only to go back to the earth again, when the parent-bird broke cover, and making a sudden dart almost in Jones' face, gave that gentleman a chance for a very pretty shot, which he accomplished with a grunt of satisfaction that demonstrated his keen desire to get even with the Judge. Only the first bird breaking cover escaped in the entire covey of thirteen, and then onward we moved for new fields to conquer. About three o'clock we went south of the river, for a change, and had the best of luck, especially as night approached, the birds becoming almost as tame as domestic fowls as the twilight fell over the beautiful valley. On the way home we had some of the jolliest fun imaginable with jack-rabbits, one of which would make a half dozen of the ordinary-sized rabbits. They, like the chickens, are fond of the road just at nightfall, and often when waked up to a fitting sense of the situation, shot ahead of us on the road as if greased and sent bounding into futurity by some ponderous arm of warfare. Their jumps are something astonishing, and to take them in the air is the pride of old hunters, who never, by the way, acknowledge to shooting them only for the fun of the instant.

Arriving at Great Bend there was no sleeping after four o'clock next morning, and no inclination to sleep had one's slumbers been left undisturbed. A cup of excellent coffee, piping hot, took the chill off, and all remembrances of repose with it, and in almost less time than it takes to relate it, we were off toward the Arkansas river at a rattling pace. Getting down close to the river bank, just where the Walnut empties into the Arkansas, I had hardly gained my position before I heard a splashing near me. Rising up cautiously in the gray morning light, and peering in the direction of the noise, I observed several mallards grubbing away in fancied security. To arouse them with a clod and then bang away with both barrels was the work of an instant, and two lovely drakes responded to my call, which "Bert" swam for in gallant style, and soon brought to my feet. I was prepared to see ducks, but was astonished at the number that flew quacking up at the report of my gun. And with the ducks there appeared to be fully as many geese, brant and crane, the hoarse, short croaks of the geese adding to the babel of quacks made by the duck. In the dim morning light the game was too confused to make headway out of range, the ducks encircling round and round, each round bringing them lower as each round carried the geese, brant and crane higher. In the meantime the others were taking every possible advantage of the inspiriting situation, and the constant popping of their guns, and incessant splashing in the water told of a havoc among the game of no ordinary character. A brief time of this intense excitement, and the ducks managed to get out of range, and for the next half hour there was the almost as pleasurable excitement of gathering in the game. Of the ducks, there were the Canvas Back, Mallard, Gadwall, Pintail, Elwires, Spoon-bill, Packards, Butter-ball, five or six kinds of Teal, including both the blue and the green wing. There was one crane taller than the Judge, three or four of the staple old "Hunkers," or Canada geese, and a half dozen Brant.

THE FIFTEENTH OF AUGUST.

After a splendid dinner at the hotel, we returned to the neighborhood of the river, this time bent upon an hour's more sport with English snipe in a slough near the Walnut, and after that some fun with the jack snipe in the marsh. There were so many of the English snipe, great fat, sleek

fellows, and they bunched so closely together in being driven from shooting point to shooting point, that we soon had the surface of the slough almost literally covered with dead, and were tired of the comparatively tame work. Then we started for the jack snipe, and until almost dark had the rarest of sport. This entire valley of the Arkansas is in the fall absolutely alive with waterfowl, and the geese so trouble the farmers that it is by no means an uncommon thing for them to hire boys and young men at so much per day, and ammunition furnished, to keep the geese out of the wheat fields.



A PRAIRIE MINUET.

Parting with the Judge and Jones, who were forced by pressure of business to return home, with no little regret, and thanking the land agents for their kindness and courtesy in adding so much to the enjoyment of the days just passed, yours truly took the Santa Fe sleeper at Great Bend, and after a most refreshing night's sleep tumbled out for a most appetizing breakfast at Lakin, the centre of the three days' contemplated sport with antelope and buffalo. Hardly had I shaken hands with the stalwart and bronzed host before fifteen or twenty greyhounds of all sizes and color were leaping upon us, seeming instinctively to divine that there was sport ahead for them as well as for us. There are great numbers of antelope in this section, affording much sport for the hunter more fond of the rifle than the shot-gun, or perhaps equally at home with either. The "still" hunter who seeks them generally works the sand ridges or banks of the Arkansas and tributaries, thereby obtaining good cover and easy access to the timid creatures. This species of hunting is like that followed in deer shooting, care and patience being required, as the antelope possesses a keen sense of both sight and scent. The antelope are peculiar in one thing, when danger is first apparent they act like a herd of sheep, huddling together; then dash off as nearly in a close pack as possible.

I found a party of Englishmen just ready to start for a grand antelope chase, the grand pack of hounds being an important feature of the occasion. No wonder our English brethren are fond of chasing foxes "cross country," but if that is pleasure, how much more deserving of the name is rushing in a headlong dash across the noble prairie after the fleet-footed and graceful antelope. Flora, Nellie, Hercules, Dagmar and the other hounds were in prime condition, and there was no question as to their understanding what was up. Saddling up we jogged across the plains through the sage brush and cactus, keeping quiet after we had gone a couple of miles out upon the grassy ocean. Mine host would now and then raise his field-glass and scan the country until finally he brought it down, closed it with a snap, and fastened it to its place, saying as he did so, in a low tone, "here away," turning his horse in the direction as he spoke. On we went steadily, keeping the hounds well in until we saw twelve antelope eyeing us with evident interest as we drew closer. As a rule, they will allow horsemen to approach them quite nearly before they appear to realize that it is not alone a four-footed animal. So we managed to get within two hundred yards before they took flight, then the hounds were turned loose, and with a yell to our nervous horses we were off like the wind. Never a thought entered my head of bog holes or gullies, but my pony knew his business, and looked out for both. It was well he did, for keeping my eyes on the game, and thrilled with excitement, I never noticed a break-neck old buffalo wallow until my pony rose to it, startling me as much as if I had been sent up like a sky-rocket. But how beautifully he cleared it, and held to his speed, assuring me thereafter of perfect safety if I would continue to allow him to make the running to suit himself. The antelope were sailing along at full speed, when becoming confused they made a double, allowing us to cut off a triangle and bring them closer,—a fatal error, for now it was one double after another, while the hounds gained on them at every step. Dagmar and Flora fastened on a lagging doe, Nellie and a couple more hung like death upon another doe, while Hercules, confident in his mighty power seized single handed on a fine buck. In an instant we were with the strugglers, and the *coup de grace* was given in artistic style by the English gentlemen.

Next day being set down for the opening of the three days' sport on the buffalo range, it requiring some ten hours' ride to reach it, we all turned in early, and were off behind a fine-gaited team next morning. Out here one hunts buffaloes as all other game throughout the valley, by taking advantage of the smooth, level roads, and the absence of all fencing, in reaching the hunting ground direct, by wagon, thus doing away with long rides horseback by those not accustomed to such means of locomotion. When the range is reached, the horses are taken out of harness, and the saddles stored away in the wagon at the start brought out and placed most decidedly where they are liable to do the most good. Generally a horse is taken for each hunter, unless possibly it is decided beforehand to confine the sport to still hunting. In the present instance four horses were taken and driven together in harness; we made time in splendid style.

At present the range of the great southern herd is south of the Arkansas in southwestern Kansas, extending to the Texas line, in what is known as the "Texas Pan Handle," and best reached by the Atchison, Topeka & Santa Fe road. South of the Arkansas some forty miles was our destination, and reaching camping ground in good time for supper, we feasted like kings on exquisitely tender and delicately-flavored steaks cut from a young antelope shot from the wagon during the afternoon. As to be imagined, we were all up and upon our horses at the very first signs of light next morning, and so intense the desire to discover the game that little or no breakfast sufficed. In less than an hour we sighted buffalo in small numbers, and soon after a herd of fifty or more. This was the realization of our fondest hopes, and after an hour's skillful deploying about the herd, we were finally in position, and at the word dashed in upon them with our heavy revolvers full cocked, on the maddest gallop imaginable. It was the wildest excitement I ever experienced, and as difficult of description after all was over as would be the effects of the most exhilarating drug mortal man ever compounded. The swift pursuit of the flying mass of buffaloes, the close proximity of the terrified beasts, the singling out of the victims, the rapid shots at the huge moving bulk of hair and flesh at so close a range that the game is almost within reach of the hand, the tottering fall or headlong tumble of the doomed animal, the risk of pursuit by a wounded bull maddened with pain, the indescribable din and confusion, with the double risk of collision with the blindly fleeing monsters, or being thrown by treacherous prairie dog or badger holes, or anon the long chase after an animal, which though pierced with a dozen balls still rushes on,—all combined leaves one in such a whirl dead of excitement as to baffle anything like detailed description.

Returning to Lakin, the luxurious comfort of the drawing-room car on the Santa Fe for the eight-hour ride to Pueblo is all the more royal in its comforts after the "roughing it" for a week. Changing from the standard gauge of the Santa Fe to the narrow gauge of the Denver & Rio Grande, the novelty of the journey, including, as it does, the climb over the dizzy heights of Veta Pass, is decidedly exhilarating, while the coach jaunt of a day from Garland, the terminus of the Denver & Rio Grande, to Del Norte, gives one a fair idea of the immensity of the park regions of Colorado.

The next day after arrival in Del Norte I had the good fortune to be invited to join a party about to start for a day's trout fishing in the Rio Grande, and it was agreed that we should hire a team, take Elliott's boat, and go up the river about eight miles, send the team home by driver, and float down ourselves in the boat, stopping to cast at likely-looking places on our way. The ride was of about an hour's duration, and extended to a point above what is called Platt's Bottom, where we sent back the wagon, and with it all extra clothing, as the boys declared it quite likely that we should have a ducking in some of the rapids before reaching the end. Launching the boat, Elliott, being the most experienced, was designated to handle it with the paddle, *a la* canoe, no oars being used. As the fishing-ground was good where we were, it was decided to work the stream in the immediate vicinity for an hour or so before starting down. Newman undertook to guide me, while the other two of the party went above, some distance. The river being at that stage that one could wade over the riffles, Newman—or Charley, as, with a fisherman's familiarity, I soon called him—took one side and I the other. Rigging up my rod with reel, 150 feet of silk line and six-foot leader, I attached three flies, a "Governor" as trail, "Coachman" as centre, and "Cowdung" as upper, to see what was wanted that morning in the way of eatables by my speckled friends. I sent the line out, bringing it in a semi circle around me as the stream carried it down. Ha! with the speed of the lightning's flash a "buster" broke water, taking my "Governor" with him as he sprang into the clear light of day, the diamond drops sparkling in the sunlight as he shook them from his crimson sides. I "struck" before he again touched water, and the steel was felt and responded to at once as if charged with electricity. Away he flew, the

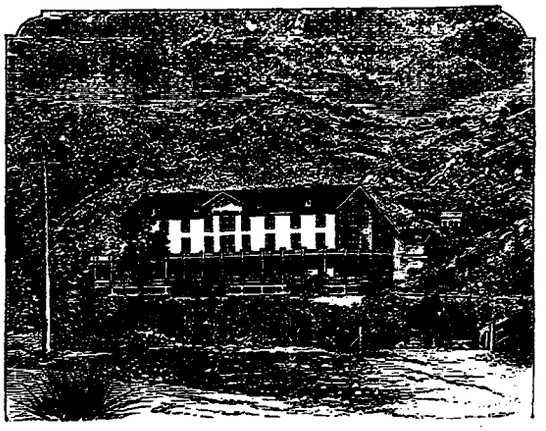
ESTES PARK AND LONG'S PEAK.

reel rattling out its music as I gradually tightened up upon him. There, now, he cannot stand such a strong pull any longer; inch by inch he gives way; one or two more tremendous runs, and, tired out, he gaspingly drowns himself as I draw him ashore and cautiously land him. When I had him out safely I measured him: 19½ inches in length, 6 inches deep, and 2½ inches across the back; weight, nearly 4 pounds, and as handsome a fish as man's eyes ever gazed upon. Finding that the "Governor" was the fly they were after, I took off my other two, and replaced them with the desired feathers. As I worked up and down, I would sometimes land two, and even three, half-pounders at a time, giving me considerable trouble and any quantity of sport to get them ashore without breaking my leader. Occasionally, a two or a three pounder, but no more like my first. Although the river seemed alive with fish weighing from half a pound to a pound, I found the big fellows were rather shy of the fly, probably knowing too much by experience to risk anything not first examined with greatest care. We fished at the first point two hours, then Elliott and Gretorex appearing with loaded creels, we started down the winding and rapid river.

The Rio Grande is by no means the only fine trout stream in southwestern Colorado; indeed, in going into detail it would be difficult to tell of any streams or lakes not abounding with the speckled beauties. In the San Juan country, of which Del Norte is one of the principal gateways, and in which the Rio Grande takes its source, there are numberless rivers and lakes literally packed with trout, while Twin Lakes and the entire South, Middle and North Park country absolutely abound with them. In the Grand River in Middle Park there are a large number of graylings, many of

them of unusual size and weight. Green Lake, above Georgetown, Manitou Park streams and others have been stocked with trout, and certainly a sportsman would have to get far outside the confines of the state to find a section not affording excellent fishing. The Rio Grande, from its length, its banks, the purity of its waters, and great variety of size and abundance of fish, together with the fact that it is the grand trout highway, so to speak, to and from the breeding grounds, is exceedingly popular with experienced fishermen.

When it was announced that there were any number of Rocky Mountain lions over in the Needle Mountain country, where it was proposed to go on a mountain sheep hunt, I was all eagerness to start. After some consultation with Messrs. Beach and Kneeland, who had but recently returned from the almost entirely unexplored region it was proposed to visit, a set was made up consisting of Beach, Darnall and self, to go over the 80 miles by trail with pack animals, to hunt that section, dividing our time into separate days for sheep, deer, elk and bear. There is hardly a section in all Colorado where one cannot find excellent hunting with any of the animals named for the objective sport. In either of the principal parks — South, Middle and North — in Manitou, Estes, and too many of the smaller parks to mention, there are deer, sheep, elk, bears and lions, not to speak of grouse, quail, sage hens, and the like; but a jaunt off in some far away country, where things are wild and rugged, where it is rare that a human foot falls, has a charm, a novelty and fascination to many men really beyond desire to control. So it was with me. I could have found, possibly, as good hunting at twenty points requiring not half the trouble to reach them; yet the very hardship of the long tramp to the Needle Mountain section completely captivated me, for after a few weeks' sojourn in this clear-cut air, and with appetite keen and about insatiable, a man feels his power to endure the hardest of physical tests, and fairly glories in it.



MANITOU HOUSE, MANITOU.

Taking no arms but revolvers and rifles, with plenty of ammunition for both, and the provision question most carefully attended to, we started, by way of the South Fork of the Rio Grande. Three days' travel over a rough trail brought us to the hunting grounds at sunset, and we went into camp beside a mountain spring, about whose soft and yielding banks the footprints of various animals were plainly visible. That night I heard, though I did not see, a mountain lion, and one roar fully sufficed me. Further curiosity I had not, and my flesh fairly turned cold as a second roar from a lion, apparently nearer our tent, broke out upon the air, but a second before so calm and clear. It was answered by another and another roar, until, fairly appalled, I started to my feet, ready to fly at the next intonation of the frightful volume of sound.

I have never heard the roar of a mountain lion since without a deathly shudder; it is so awful in tone, so vast in volume, and above all, so fearful in the echoing reverberations of the mountain sides. While at Estes Park, I saw the place where a perfect monster of a lion was trapped, and the bushes, trees and grasses thereabouts, looked as if they had been wrung through a threshing machine.

The next day was our sheep hunt, and my limbs fairly ached, before reaching the summit of a large bald-headed mountain that looked well for our game, and upon our arrival we were not disappointed, so far as signs went. Regular paths intersected one another over the plateau on top, showing that they "used" there a great deal; and as I had never shot a sheep in my life, the boys very kindly stationed me near a trail, leaving me alone, under cover, while they departed on a tour of a couple of miles to "drive," for my benefit. After they had been gone for what seemed to me a half day, though in reality probably not more than an hour, I saw a couple of bucks in the distance coming, very evidently startled, as they bounded along with short, high jumps, stopping now and then to sniff the danger they had scented in their rear. On they came, while I quivered with excitement, as I knelt behind my boulder, where I was concealed. On and on, until within 50 yards, when they again stopped, having scented something fresh. Now or never, thought I, knowing that no time was to be lost, so I sighted the largest buck and cracked away. He sprang into the air fully ten feet, coming down dead as a herring, while so excited and exhilarated was I, that I never dreamed of popping at the other, as he dashed away across the plateau. But no time had I for reflection. I heard the bang, bang of the other guns away off somewhere in the distance, and quickly hid myself again to see, in a moment, a herd of about 20 running full tilt toward me. No stopping to look around with them, they were too badly frightened, and I knew it was a running shot this time or nothing. On they came, and passed within 30 yards of me like a whirlwind, when I "turned loose," only to miss; but here my Winchester came into good play. It was the work of an instant to throw the lever and pump it into them again; this time having the supreme satisfaction of seeing another buck answer to my call, and as he was still kicking, I hurried up and knifed him. The other boys came up just then with two, and reported proceedings. They had not seen the first two that had passed me at all, and wondered what I was fooling away my chances for, by banging away at a rabbit or something of that kind. But they continued on to the farther side of a "lick," that Beach knew of, and waited for some to come in. They came as expected, and the boys let loose on them, as I had heard.

Early the following morning we decided to break camp, and taking with us blankets and provisions sufficient to do us for one night, go to the head-waters of the Vallecito, or one of its tributaries, where the elk ranged. Packing our blankets and eatables, we started across country, no easy task, as the fallen timber made traveling slow and laborious. Despite this, we reached our destination about two o'clock in the afternoon, hobbled the horses, threw down our blankets, took lunch and clambered over about a half mile of rugged rocks to a little lake, or rather a series of springs set like diamonds in emerald, in a charming park surrounded by the high mountains of this section. Reaching the place, we stationed ourselves in different covers to await the approach of our mighty game. It is the habit of elk to come out from the dense cover of the forest where they have lain and slept during the day, at sundown, generally selecting some such spot as we were watching. The sun sank lower and lower, and I was beginning to make up my mind for a bitter disappointment, when a noise broke on my ear like the trampling and plunging of a herd of horses. I trembled with intense excitement as fully twenty immense elk playfully gamboled into the little park. How wonderfully large they appeared; aptly are they called the most glorious creature that roams the mountains. The boys were evidently again waiting, in compliment, for me to take the initiative step, so I threw my rifle over a log in front of me for a certain aim, and cracked away at the buck with the largest antlers, having a fair broadside view of him as he stood apparently watching the play of some of the younger members of his family. With a spring into the air he came down on his feet, and was off like a pigeon, while the crack, crack, crack of the other rifles were sounding in my ears. I "churned" away as best I could into the disappearing herd, only certain of my first shot. I knew he had it through the heart, and that we would find him dead within a couple of hundred yards. Jumping out of the cover, as did the others, we found their dead on the ground, with mine to get. The boys seemed to think that he was not hit very hard, but I backed myself on his death, so we followed his course through the timber, finding him, as I expected, stone dead at a distance of about one hundred and fifty yards. In the morning, before I was up, Kneeland went out and brought in a deer, saying that he had seen quite a number of them, but only had one shot. The boys asked me if I wanted to stay and put in a day deer hunting, but I answered, no; my ambition was satisfied, and besides we could do nothing with them if we did kill them. It was then decided that we should return to Del Norte, thence to Pueblo, and thence east by the Santa Fe road.

There is almost no end to the variety of game in Colorado, rendering the shooting excellent at all seasons of the year. Bears are quite numerous, grouse and quail exceedingly plentiful, and what with the finest fishing on the continent, elk, deer, sheep, lions, and the like, the Rocky Mountains offer attractions to the sportsman without equal in the country.

BANKRUPTCY NEWS
JUNE 8, 2009 / 12:52 PM / 11 YEARS AGO

Bankruptcy court allows Asarco to set up custodial trusts

June 8 (Reuters) - A U.S. bankruptcy court gave copper miner Asarco LLC the go-ahead to set up custodial trust settlement agreements which will allow it to settle environmental claims at about 54 sites across the United States, according to court documents.

The order, filed on Friday, clears the way for Asarco to pay out more than $275 million in cash to federal and state governments for environmental liability.

Montana custodial trust will receive a settlement payment of about $138 million, while the multi-state custodial trust set up for other sites across the United States will get about $71 million, according court filings.

In March, the company said it would allow general unsecured environmental claims of about $835.7 million and sought bankruptcy-court approval to enter into five settlement agreements that it said would resolve the “vast majority” of its remaining environmental claims.

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Earlier in March, India's Sterlite Industries STRL.BO, a unit of London-listed Vedanta Resources VED.L, agreed to pay $1.7 billion in cash and notes to buy Asarco.

Sterlite (SLT.N) and Asarco's parent Grupo Mexico (GMEXICOB.MX) have been fighting in court over the deal for months.

Last week, Grupo Mexico said it would contribute $1.55 billion to Asarco, lifting the total amount of cash on hand in the Asarco estate available for distribution to its creditors to $2.9 billion.

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The Mexican company had previously offered $1.3 billion in cash and a $250 million loan to bring Asarco out of bankruptcy.

The case is In re: Asarco LLC, U.S. Bankruptcy Court, Southern District of Texas, No. 05-21207. (Reporting by Santosh Nadgir in Bangalore; Editing by Vinu Pilakkott)

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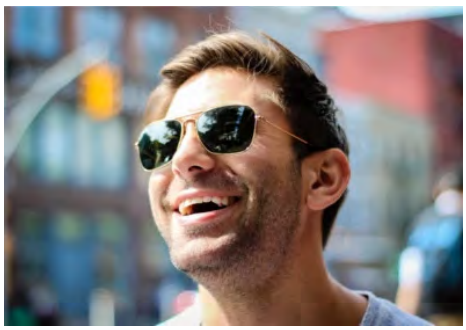

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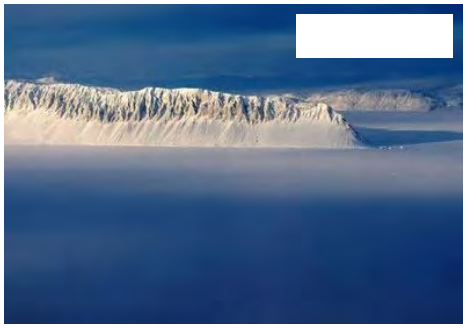

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U.S. DEPARTMENT OF THE INTERIOR
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BLM COLORADO COVID-19 UPDATES

The latest information about COVID19 impacts to BLM Colorado offices and areas is available here.

(/alert/blm-colorado-covid-19-updates)

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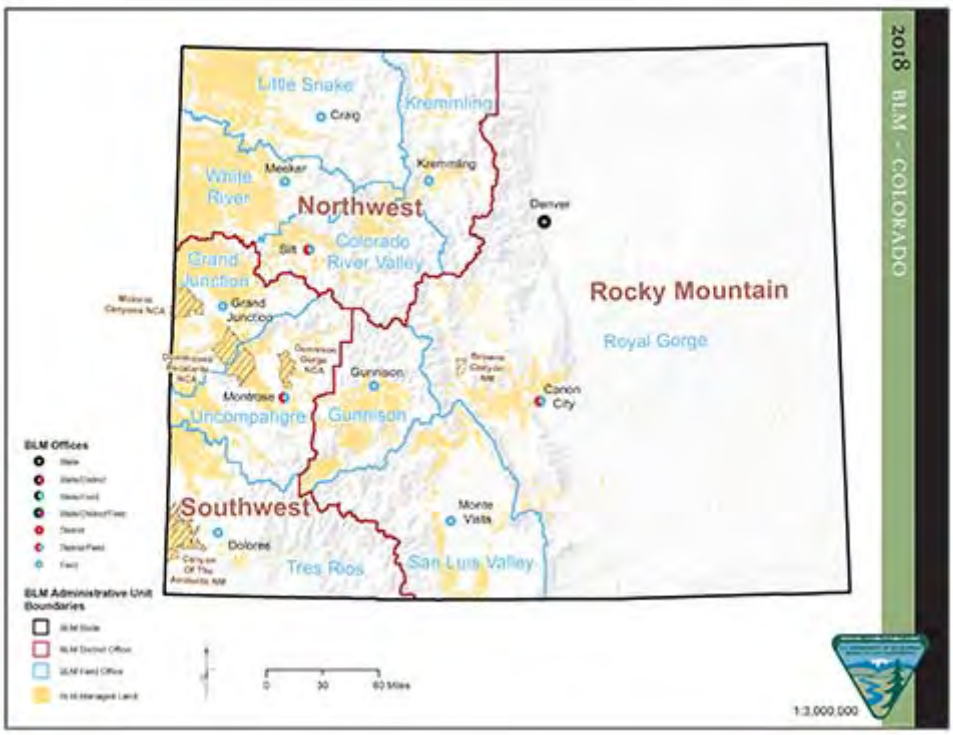

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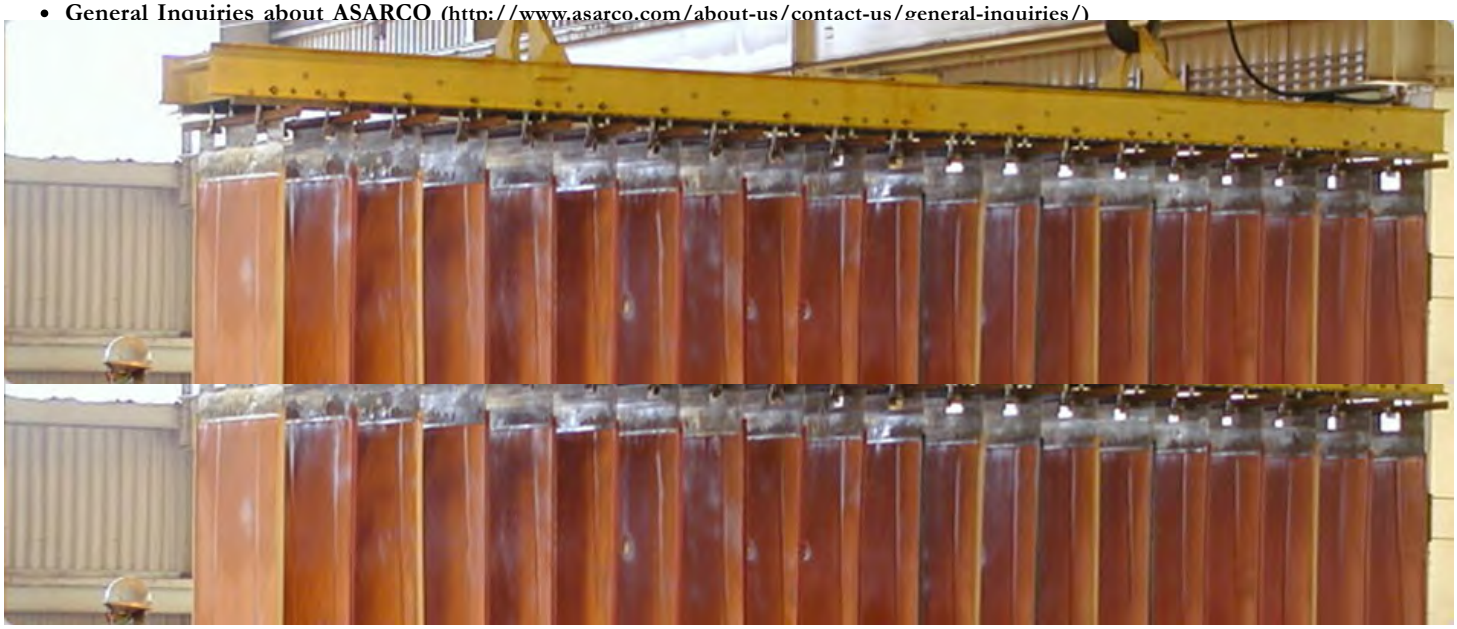

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242 of 620 DOCUMENTS

AFX European Focus

November 15, 1999 Monday

ASARCO tender successfully completed by Grupo Mexico

SECTION: COMPANY NEWS

LENGTH: 163 words

DATELINE: NEW YORK

Grupo Mexico SA de CV announced that it has successfully completed its tender offer to purchase outstanding shares of ASARCO Inc at a price of 29.75 usd per share in cash.

The tender offer expired at midnight New York City time on Nov 12.

At the expiration of the offer, based upon information provided by the depositary for the offer, approximately 32,573,446 ASARCO shares (including 1,474,618 shares subject to guarantees of delivery), representing approximately 81.5 pct of the total number of the shares outstanding, were tendered.

After giving effect to the purchase of the shares tendered, Grupo Mexico will beneficially own approximately 91 pct of the outstanding ASARCO shares.

Accordingly, Grupo Mexico will be entitled to complete a merger pursuant to which ASARCO will become a wholly owned subsidiary of Grupo Mexico without the need for a vote of ASRACO shareholders.

Grupo Mexico expects to complete the merger on or before Nov 17.

ow/pav/

LOAD-DATE: January 8, 2000

LANGUAGE: ENGLISH

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Business Wire

December 3, 2001, Monday

Asarco Pays $50 Million Maturity of Public Bonds; Seeks to Adjust Credit Terms in Discussions With Banks

LENGTH: 410 words

DATELINE: PHOENIX, Dec. 3, 2001

BODY: Asarco, Inc., a subsidiary of Grupo Mexico S.A. de C.V., announced the payment of $50 million plus interest on its public bond issue, which matures today.

Under the bond program issued by Asarco, the next payment is due in 2003 followed by a payment in 2013.

In the coming days, Asarco also will hold meetings with a group of creditors, headed by Chase Manhattan Bank, on its $450 million revolving credit agreement, which was granted in 1999 in order to pay previously acquired debt with said banks. The credit agreement matures in November 2002. Asarco has paid on time 100 percent of the credit interests associated with this agreement.

In the meetings, Asarco will negotiate adjustment of terms and conditions of the revolving credit agreement since the company failed to comply with some financial ratios, as previously announced Nov. 6. These failures derived from the steep drop in the copper price, which reached 60 cents per pound in early November, the lowest in current terms since 1987, and to the fall of the market price of shares of the company's mining subsidiaries. These facts, along with the restructuring of operations and the liquidation of non-core assets and companies, resulted in the reduction of Asarco's inventories and receivables, thus negatively affecting the "borrowing base" provided for in such credit.

Grupo Mexico expects that these negotiations will be satisfactory, helping to reestablish the positive commercial relationship between Asarco and its banks. They also should allow Asarco to reach a favorable operating position and meet required conditions and financial ratios.

Asarco is a major producer of copper, gold, silver, nickel and various specialty metals. The 102-year old company is a subsidiary of Americas Mining Corporation (AMC), established last year as Grupo Mexico's mining division. AMC is among the world's largest integrated mining and refining companies and the third-largest producer of copper. It includes Grupo Mexico's interests in Asarco, Inc. (100 percent), Minera Mexico (98.8 percent) and Southern Peru Copper Corp. (54.2 percent). Minera Mexico, based in Mexico City, is the largest mining company in Mexico and among the world's lowest-cost producers of copper, zinc and silver. Southern Peru Copper Corp., based in Lima, also is among the world's lowest-cost copper producers.

CONTACT: Asarco
Clay Allen, 602/977-6515

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LOAD-DATE: December 4, 2001

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152
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HEARINGS ON H. R. 2357

Before

Subcommittee of the

HOUSE JUDICIARY COMMITTEE

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A STATEMENT CONCERNING SOME CONSOLIDATIONS, MERGERS AND ACQUISITIONS WHICH HAVE OCCURRED IN THE COPPER AND LEAD INDUSTRIES

By

Everette MacIntyre,
Federal Trade Commission

I N D E X

	Page
Introduction	1
Discussion of acquisitions by each of a number of particular groups	7
Anaconda group	7
Kennecott group	18
Phelps Dodge group	25
American Smelting & Refining group	29
St. Joseph group	45
Bunker Hill group	47
Conclusion	47

G R A P H S

Graph showing concentration of production of copper among three companies in the United States	4
Graph showing concentration of lead among four companies in the United States	6

C H A R T S

Anaconda group:	
Anaconda Copper Mining Co	9
International Smelting & Refining Co	10
American Brass Co	11
Anaconda Wire & Cable Co	12
Miscellaneous Companies of Anaconda Copper Mining Co	13
Kennecott group:	
Kennecott Copper Corp	20
Utah Copper Co	21
Chase Brass & Copper Co., Inc	22
Phelps Dodge group:	
Phelps Dodge Corp	26
Nichols Copper Co	27
American Smelting & Refining group:	
American Smelting & Refining Co	31
M. Guggenheim & Sons	32
American Smelters Securities Co	33
Compania Metalurgica, Mexico	34
General Cable Corp	35
Revere Copper & Brass, Inc	36
National Lead Co. (a consolidation of other companies)	37
United Lead Co	38
National Lead Co. (acquisitions - general)	39
St. Joseph group:	
St. Joseph Lead Co	46
Bunker Hill group:	
Bunker Hill & Sullivan Mining & Concentrating Co	48

A STATEMENT CONCERNING SOME CONSOLIDATIONS, MERGERS AND ACQUISITIONS WHICH HAVE OCCURRED IN THE COPPER AND LEAD INDUSTRIES

Measured by importance of uses made, the commodities copper and lead are vital both to the war effort and to peacetime life not only in the United States, but also throughout the world. Each passing day expands their importance. When we analyze the history of the increasing use of copper and lead in the peacetime years immediately preceding the present war, we can begin to appreciate their importance to the post-war years that are almost upon us. The last twenty years before the outbreak of the present war saw the production and use of more than 60 percent of all copper produced in the world since 1801. The last decade preceding the outbreak of the present war saw the production of more than 37 percent of all copper produced in the world since 1801. 1/

In 1941, 1,605,000 short tons of copper were used. Of that total the principal uses included the following in the United States:

Electrical manufactures	393,000
Rod and wire manufacture	253,000
Buildings	134,000
Automobiles	112,000
Light and power lines	94,000
Telephone and telegraph	78,000
Castings	38,000
Other uses, including air conditioning, refrigerators, radio receiving sets, radiators and heating, railway equipment, ammunition, etc	480,000 2/

In 1941, of the 1,050,000 short tons of lead used in the United States approximately three-fourths went into items used in our everyday life as follows:

White lead - paint	85,000
Red lead - paint	89,100
Storage batteries	245,000
Cable covering	173,000
Buildings	95,000
Ammunition	71,000 3/

Thus, it is seen that of the lead used in 1941 more than 16 percent was used in paint, 24 percent in storage batteries, 17 percent in cable covering, 9 percent in building construction and 7 percent in ammunition.

The problem of meeting and dealing with a concentration of economic power and control over the production and marketing of such important commodities as copper and lead rightly concerns us at this time. The Congress and others in the government charged with the responsibility and duty of effectuating the declared national policy of

---

1/ Hearings before TNEC January 1940, p. 13546.
2/ Year Book of the American Bureau of Metal Statistics, 1941, p. 35.
3/ Ibid., p. 47.

standing firm for a competitive system of free enterprise and all that it entails, owe to the members of the copper and lead industries and to the public earnest consideration, decision and action on the question of whether economic power and control over the production, smelting, refining, fabrication and sale of copper and lead products is to be further concentrated into the hands of fewer and bigger interests to the exclusion of a greater number of smaller new and vigorous enterprisers.

Let us digress to briefly discuss what has happened in the copper and lead industries with the growth of concentration of economic power and control over production and sale in the hands of a few interests. We may well ask what trade practices of great import to the public have been used by producers and sellers of copper and lead, whether they be few or many. First, the facts show that when small independent owners of lead and copper mines seek markets for their ores they find only a half dozen or so buyers in the United States operating smelters and refineries. The interests who operate such smelters and refineries therefore are to all practical purposes for such prospective seller of ores the entire market. They inform the prospective seller that purchases will be made only at the f.o.b. New York City price. 4/ From the price thus quoted are deductions for various items, including treatment and transportation. For example, when the small seller delivers his lead- and copper-bearing ores to a smelter at Murray, Utah, East Helena, Montana, or other such locations, the railroad freight on the metal content derived from such ores from such smelting points to New York City is deducted. Probably little or none of that metal will actually be shipped by the smelter to New York. For example, the lead content may be stopped off at St. Louis, Missouri, and fabricated by corrosion into white lead for use in paint. The lead or the copper may be used not in New York but in any one of the Midwestern or far Western locations in fabricating lead covering for cables, storage battery manufacture, automobile manufacture or in building construction.

Now, what about the fabricator and user of the copper and lead which was thus bought as though it were to be transported to New York, but which was not so transported? Instead, those commodities were shipped from the Mountain States to the Midwestern locations and there sold and used. The fabricators and users find that the same half dozen or so smelters and refineries constitute the entire market to which buyers may turn for their supplies of copper and lead. They also find that those few sellers quote a price equal to the price f.o.b. Connecticut Valley points on copper, plus a freight differential. (The freight differential may or may not represent the actual freight from point of shipment to destination.) The prices quoted on lead are f.o.b. New York City plus freight therefrom to the point of use. Exception to that practice is the quotation of the same price f.o.b. other points or certain specified arbitrary differentials therefrom, plus freight from point of shipment to point of use. 5/

4/ Hearings before TNEC January 1940, pp. 13267 and 13541.

5/ OPA Revised Price Schedule No. 15 - Copper, Effective as of Feb. 1, 1942, Part 1309, amendments thereto, and OPA Revised Price Schedule No. 69 - Primary Lead, Effective Jan. 15, 1942, Part 1355 and amendments thereto. See also Record of Hearings before TNEC, Jan. 1940, pp. 13267, 13541 and 13526.

How is the price of copper or the price of lead f.o.b. New York City named and ascertained? The prices are determined and ascertained by reference to the figures published as such prices in the "Engineering and Mining Journal," as published in New York City by McGraw-Hill Publishing Company, Inc. Now, of course, the publishing house has no control over the naming of such prices. Therefore, let us inquire who makes and names the prices? According to the sworn statement of a representative of McGraw-Hill Publishing Company, seven producers and sellers of copper and lead make and name the prices which are published in the "Engineering and Mining Journal" as market prices on those products. 6/

It would appear that the next and logical inquiry would be, Why is it that the entire market in copper and lead in the United States is within the economic power and control of a half dozen or so producers and sellers? How was such concentration of power and control accomplished over the vast business of producing and selling such important commodities as copper and lead? The answer to the latter prompts the submission of this statement as a part of this Committee's study of consolidations, mergers and acquisitions. That is true because it has been through consolidations, mergers and acquisitions that the half dozen or so interests (said to name the "market" price of copper and lead - TNEC Hearings, p. 13541) have largely attained their dominating position.

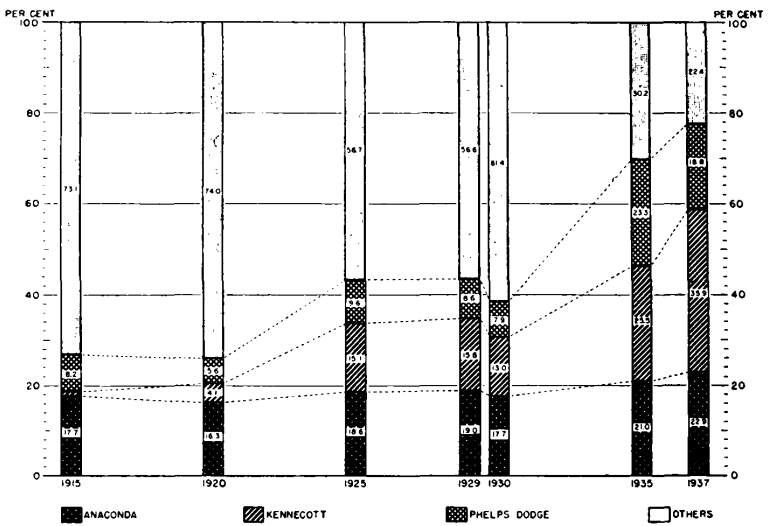
The two largest producers of copper in the world are the Anaconda and Kennecott (Guggenheim) interests, with mines in the United States, Mexico and South America. These two groups operating (it is claimed) in competition in the United States market, and heretofore in combination through the Webb Law Association (Copper Exporters, Inc.) in foreign markets, are said to have disposed of a large proportion (Anaconda, 30 percent, and Kennecott-Guggenheim, 40 percent) of all of the virgin copper that is refined in the United States and South America as of 1927, 7/ and the production of the North and South American mines is also said to have been at that time as much as 75 to 80 percent of the production of the world. As of 1937, these two interests plus a third, namely, Phelps Dodge Corporation, were reported to have controlled directly 77.6 percent of the production of copper in the United States. 8/ (See graph, page 4.) When the production of Inspiration Consolidated Copper Co. for 1941 is added to that of Anaconda, then the production of Anaconda, Kennecott and Phelps Dodge accounts for more than 80 percent of the total for that year. Anaconda through a subsidiary, owns 28.17 percent of the stock of Inspiration Consolidated Copper Co. 9/ and Anaconda's Mountain City Mining Company's production (in which Anaconda has acquired a controlling stock interest).

Production of copper outside of the United States is also concentrated in the hands of a few interests. Mostly, except for that part which is concentrated in the hands of Anaconda, Kennecott and Phelps Dodge, is in the hands of Katanga, Mufulira, Rhokana and Roan Antelope. As of 1937 a Belgian company, Union Miniere du Haut-Katanga (Katanga Copper Co.), incorporated in 1906 in the Congo Free State, was the only

6/ Hearings before TNEC January 1940, p. 13541.
7/ Quarterly Journal of Economics, August 1927, p. 698.
8/ TNEC Hearings, Part 25, p. 13391.
9/ Poor's Industrials, 1938, p. 2118.

CONCENTRATION OF PRODUCTION[9] OF COPPER AMONG THREE COMPANIES IN THE UNITED STATES

SELECTED YEARS, 1915-1937



SOURCE: Prepared by the staff of the T.N.E.C. from figures of the American Bureau of Metal Statistics
[9] Mine output

strong rival of U. S. interests. It had acquired the interests of the Katanga (Belgian) Special Committee and the Tanganyika Concessions, Ltd., in a copper-bearing belt 200 miles long, containing approximately 5,790 square miles, in the Katanga region of Belgian Congo, Africa. 10/ The Katanga mine was opened in 1922, produced in 1926 and 1927 only 7 percent of the world's production, but with its mining rights on more than 10 million acres of land rich in high-grade ore which, if fully developed, are said to be capable of producing as much as all of North and South America together. Additional foreign copper producers who have risen to prominence in recent years are Mufulira Copper Mines, Ltd., Rhokana Corporation and Roan Antelope Copper Mines. 11/

Mufulira Copper Mines, Ltd., was incorporated in 1930 in England, acquiring its original holdings from Rhodesian Selection Trust, Ltd., Bwana M'Kubwa Copper Co., Ltd. and British South African Company. 12/

Rhokana Corporation was incorporated in England in 1923 as Rhodesian Congo Border Concession, Ltd., primarily to acquire a concession granted by British South African Company to C. D., Ltd., to explore an area of approximately 50,000 square miles for minerals along the Congo-Northern Rhodesia border. The original holdings have been substantially enlarged through subsequent acquisitions, including the N'Changa West Mine and the Mindola Mine. The company also holds shares in Mufulira Copper Mines, Ltd., approximating 32.30 percent of the issued capital. 13/

Roan Antelope Copper Mines, Ltd., was incorporated in 1927 in England, acquiring its original holdings from Northern Rhodesian Company, Ltd. and Selection Trust, Ltd., and subsequently purchasing Roan Antelope Extension property and Mulishi property. The company is rated as the world's lowest-cost producer of copper. 14/

It is said that cooperation among not only the foreign interests but also American copper producers was made easier by the numerous financial and intercorporate connections among them. 15/ However, it has been recognized that a detailed analysis of the financial and intercorporate connections and relationships is difficult, if not impossible, from available information.

Concentration of economic power and control over production of lead in the United States is no less than the concentration of economic power and control over production of copper. The principal producer of lead in the United States is the American Smelting and Refining Company. Its production plus the production of three other interests, namely, Anaconda (including production of its subsidiaries), St. Joseph Lead Company and Bunker Hill & Sullivan Mining & Concentrating Company, in 1941 accounted for 87.07 percent of lead production in the United States. 16/ (See graph, page 6). It is noted from the graph that the production of those interests rose to that proportion of the total in 1941 from 58.1 percent of the total production represented by those interests in 1920. It presents a graphic showing of the steadily increasing concentration of production in fewer hands through that

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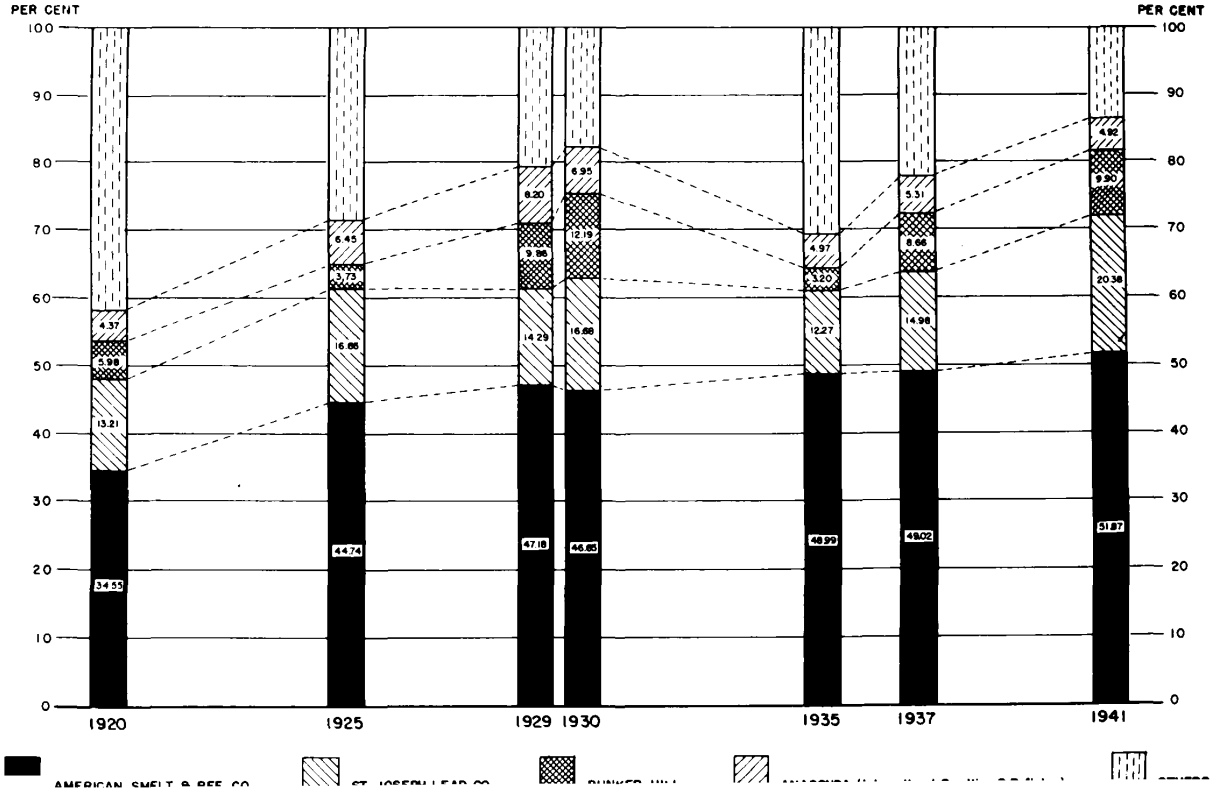
10/ 1937 Mines Register, p. 1102.
11/ Year Book American Bureau of Metal Statistics, 1938, p. 20.
12/ 1937 Mines Register, p. 1092.
13/ Ibid., p. 1093.
14/ Ibid., p. 1096.
15/ Southern Economic Journal, Oct. 1944, p. 139.
16/ Totals taken and computed from production shown for individual companies, Year Book of American Bureau of Metal Statistics, 1941, p. 42.

CONCENTRATION OF PRODUCTION OF LEAD AMONG FOUR COMPANIES IN THE UNITED STATES

SELECTED YEARS, 1920–1941.



20-year period. We shall presently analyze the acquisitions of independents by the four mentioned interests during the period from 1920 through 1941. The increasing concentration in the hands of those four interests has not been confined to lead production. It has also extended through lead smelting, refining, sale and fabrication of lead and lead products. For example, in 1925 American Smelting & Refining Co. operations accounted for only approximately 40 percent of the refined lead in the United States, but in 1941 that figure had risen to approximately 50 percent. 17/

Thus it is seen that three interests, namely, Anaconda, Kennecott and Phelps Dodge, dominate copper production in the United States and four interests, namely, Anaconda, American Smelting & Refining, St. Joseph Lead, and Bunker Hill, dominate lead production in the United States. Practically all of the remaining portion of this statement will be concerned with a presentation of information about the consolidations, mergers and acquisitions which have established those interests in their present dominating positions. In addition, there will be presented information concerning consolidations and acquisitions by National Lead Company to indicate how it has in part acquired its dominating position in the field of fabricating lead products.

ANACONDA GROUP

The capstone of the Anaconda group is the Anaconda Copper Mining Company. It was incorporated in 1895 in Montana and acquired by purchase the properties owned by the Anaconda Mining Company. In subsequent years the properties and stocks of numerous other companies have been acquired. 18/ By 1938 its growth, including that of its subsidiaries, made it one of the world's leading producers of copper, the largest fabricator of copper products and an important producer of zinc, lead, silver, gold, and other metals and mineral derivatives. Through International Smelting and Refining Company, a wholly-owned subsidiary, it is one of the principal factors in custom smelting and refining, with plants strategically located throughout the United States. 19/ Despite large diversification activities, the company's dominant interest, both in producing and fabricating, is copper. Its reserves of this metal have been estimated to be sufficient for many years of operation. They are located in large part outside of the United States. Potential capacity of directly owned or controlled mines as of 1937 was about 1,148,000,000 pounds annually, approximately two-thirds of which represented foreign capacity. 20/ Its principal domestic copper mines are located in the vicinity of Butte, Montana, and have a capacity of about 360,000,000 pounds a year. Production costs at these mines are relatively high. Foreign copper operations are conducted at three of the world's largest and lowest-cost mines, the aggregate capacity of which is approximately 280,000,000 pounds annually. The two principal properties are the Chile Mine, containing the largest known body of copper ore in the world, and the Andes Mine, both of which are located in Chile. 21/ Greene Cananea Mine in Mexico can produce some 100,000,000 pounds a year; and all the Chile Mine

17/ Source: Year Books of American Bureau of Metal Statistics.
18/ Moody's, 1944, p. 2543.
19/ Standard Corporation Records, Revised 6/25/38.
20/ Ibid.
21/ Ibid.

copper production costs are reduced through credits arising from sales of silver and gold extracted as by-products. 22/ Its fabricating interests include the wholly-owned American Brass Company and its stock-controlled Anaconda Wire & Cable Company. In addition to the properties already indicated, the company and its subsidiaries own within the United States copper mines in Montana, California and Nevada, zinc-lead-silver mines in Montana and Utah, smelters in Arizona, Utah and Montana, metal refineries in Montana, Indiana and New Jersey, copper and brass fabricating plants in Montana, Connecticut, New York, Michigan, Wisconsin, Indiana, California, Illinois and Rhode Island, zinc oxide plants in Ohio and Indiana, a white lead plant in Indiana, lumber mills in Montana, coal mines in Montana and Wyoming, phosphate rock mines in Idaho, and miscellaneous transportation and other facilities pertinent to the operations of the mentioned properties. 23/

The vastness of such extensive enterprises is indicated by a chart of the Anaconda Group, headed by its president, Mr. Kelley, as it appeared in the January 1937 issue of Fortune magazine, p. 76. There has also been prepared for study by this Committee more detailed charts dealing with the interests of the Anaconda Group. In many instances they show when and where the subsidiaries were incorporated and why, in what manner and to what extent they were acquired and made a part of the Anaconda Group. Those charts appear herein as pages 9 to 13, inclusive. Of course, it is not here represented that these charts contain a complete showing of each and all acquisitions made by the Anaconda Group. In some of the instances included in the showing made by the charts some of the details are lacking. The incompleteness springs from the fact that the Anaconda Group has never reported to the Federal Trade Commission information showing the details of each of its acquisitions since the passage of the Clayton Act in 1914. The pending bills, S. 615 and H. R. 2357, provide that in the future before acquisition shall be consummated, effectuated and completed the Commission shall be advised of the proceeding so that it may act timely in the public interest.

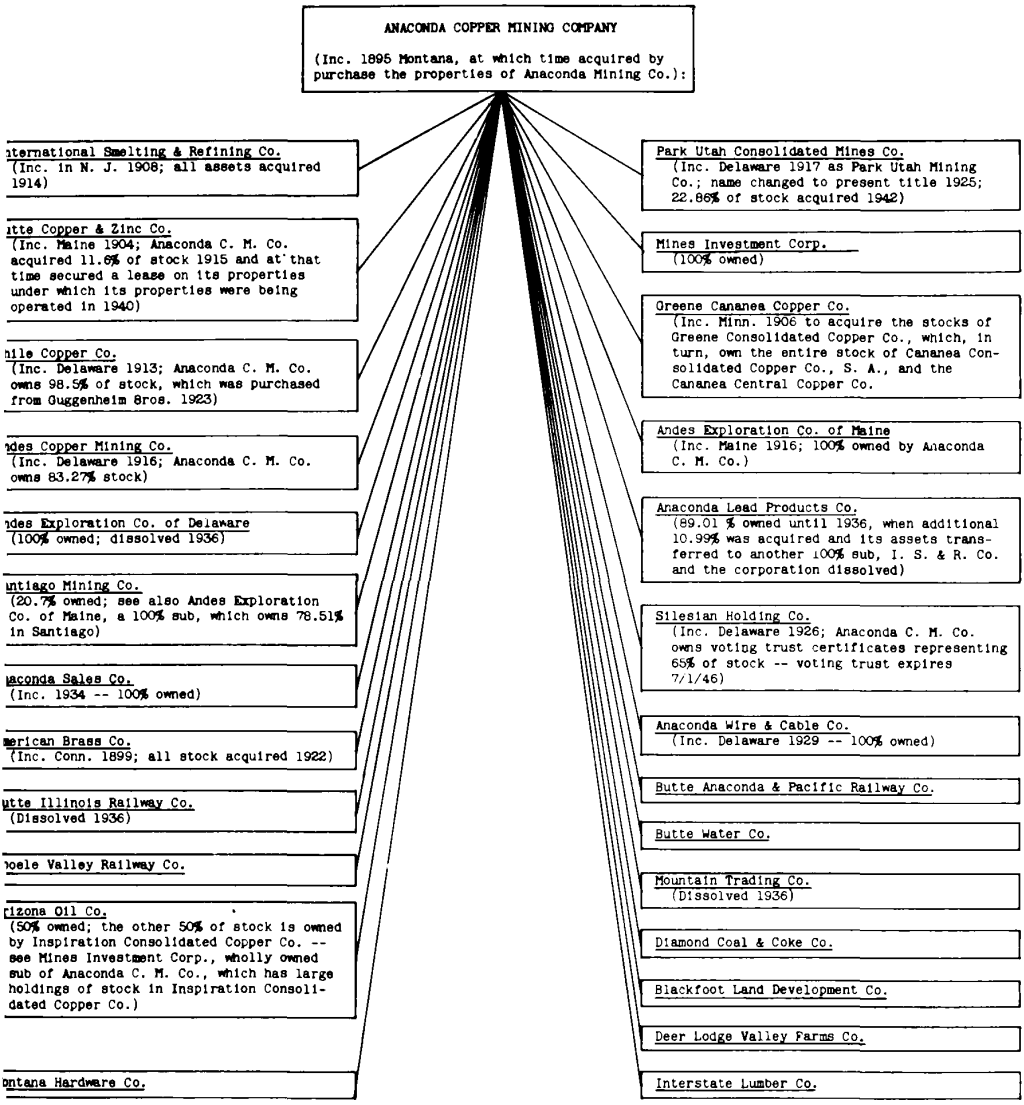
The first of the charts, page 9, dealing with the Anaconda Group, lists its principal direct subsidiaries and, in some instances, concerns in which the Anaconda Copper Mining Company directly owns substantial stock ownership.

The second of the charts, page 10, deals with the principal one of those subsidiaries appearing in the Anaconda Group, namely, the International Smelting & Refining Co. The latter was incorporated in New Jersey, in 1908, to do a general smelting and refining business and immediately took over, by assignment at actual cost, a contract which had previously been entered into by a Mr. William D. Thornton with the Utah Consolidated Mining Company, a New Jersey corporation, providing for the treatment of ores from the mines of the Utah Consolidated Mining Co. for a period of ten years from November 11, 1908. 24/ It acquired a site four miles east of Tooele City, at International, Utah, upon which it erected and put into operation, in 1910, a copper smelter plant. Subsequently, it entered into contracts

22/ Ibid.
23/ Ibid.
24/ Moody's, 1913, Vol. 1, p. 1475.

COPPER - LEAD

Anaconda Group



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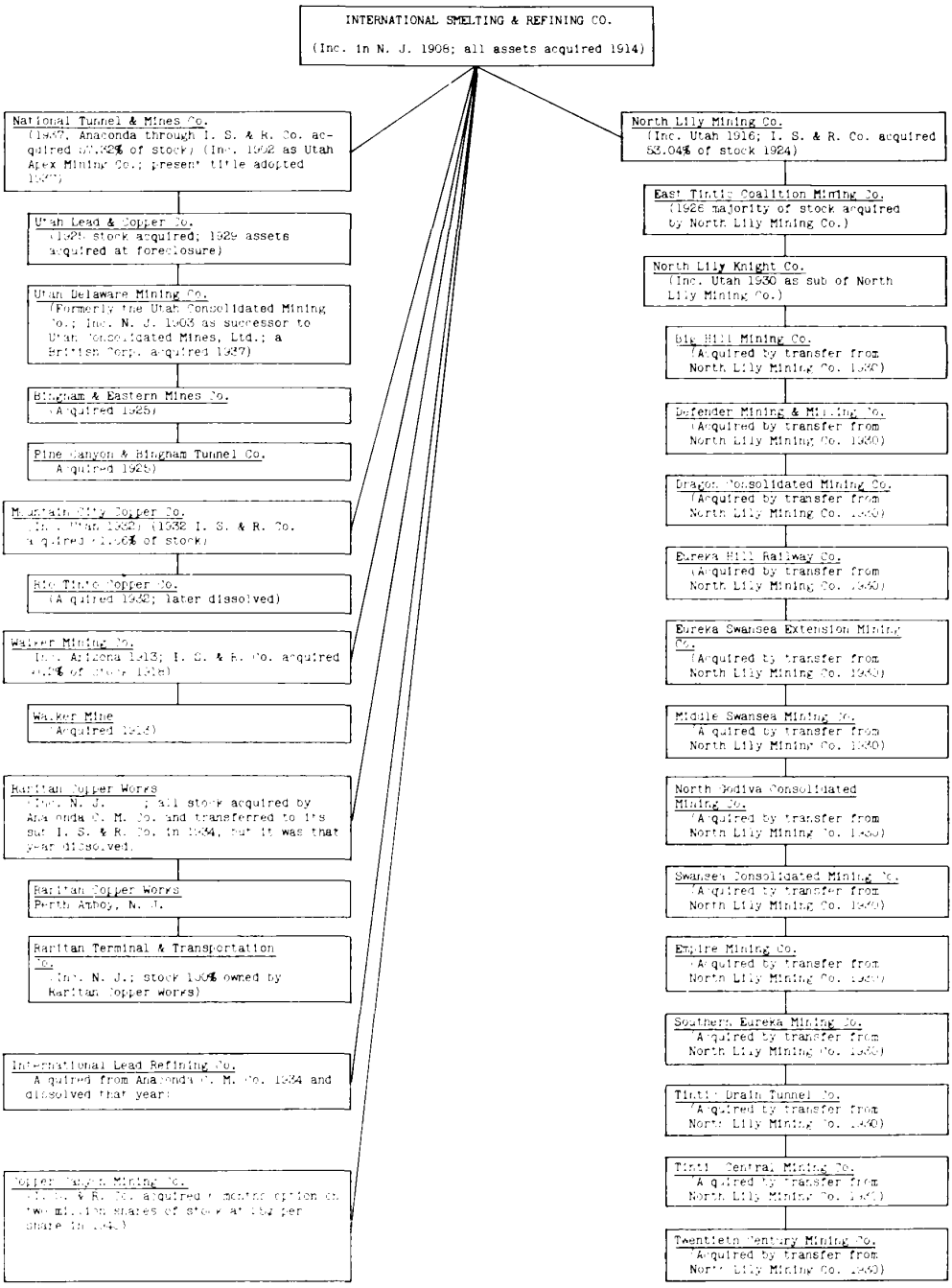

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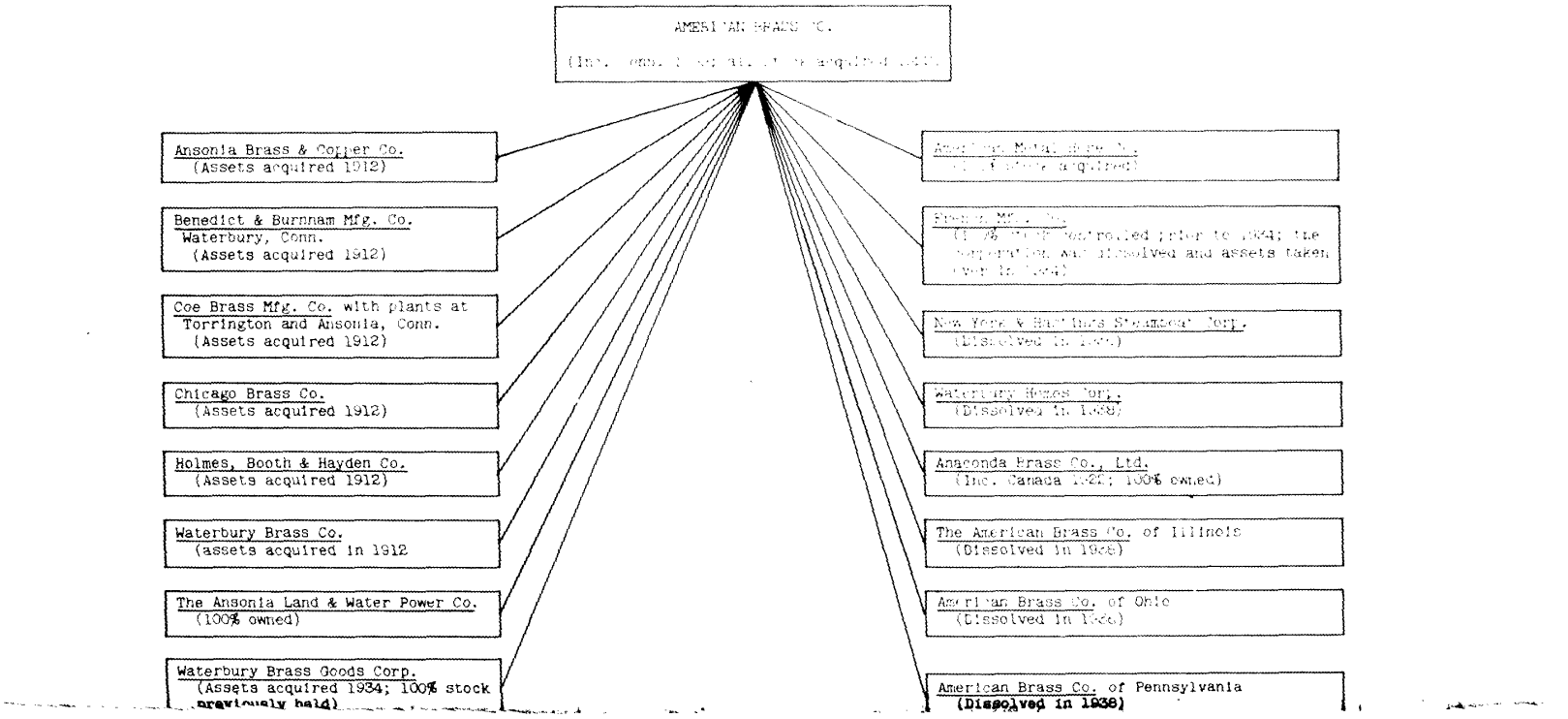

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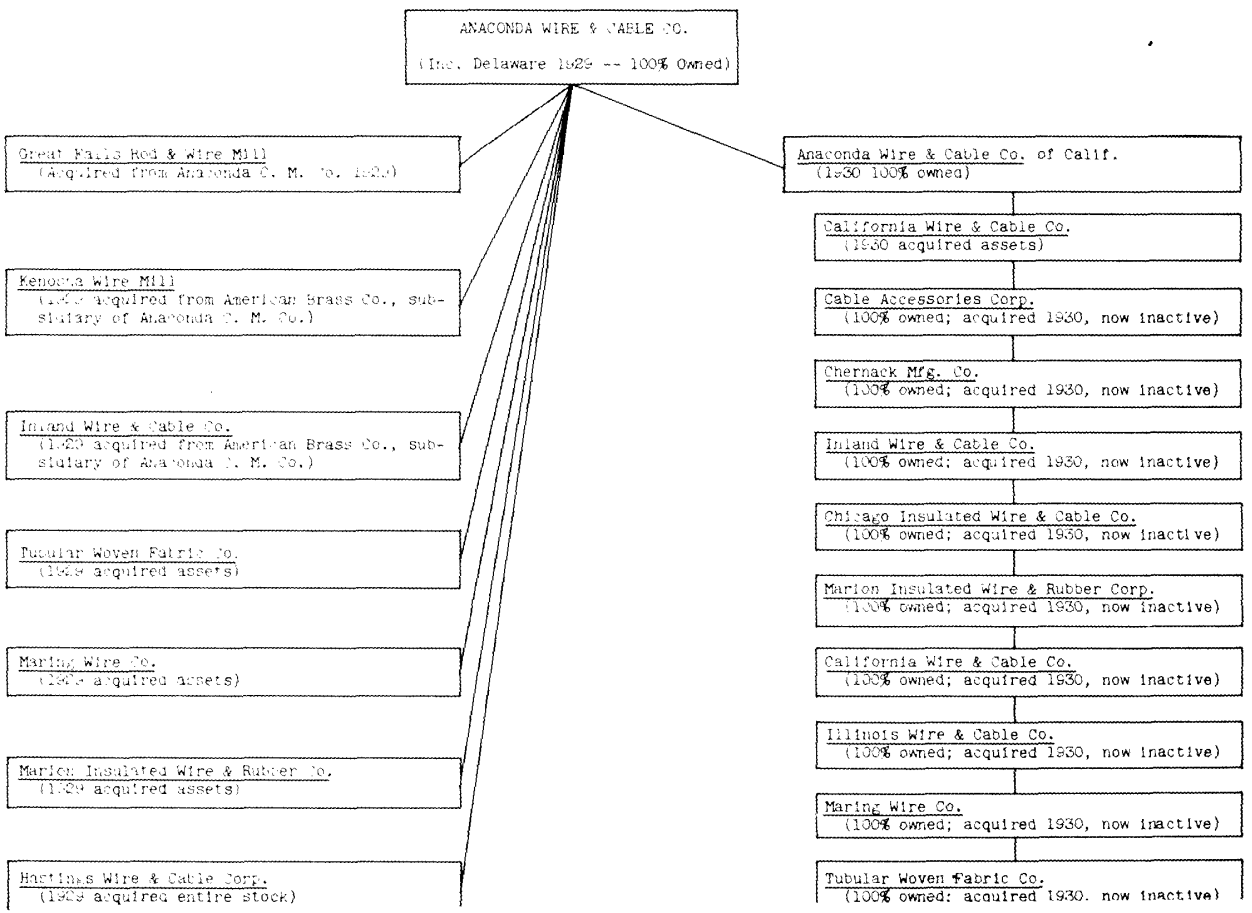
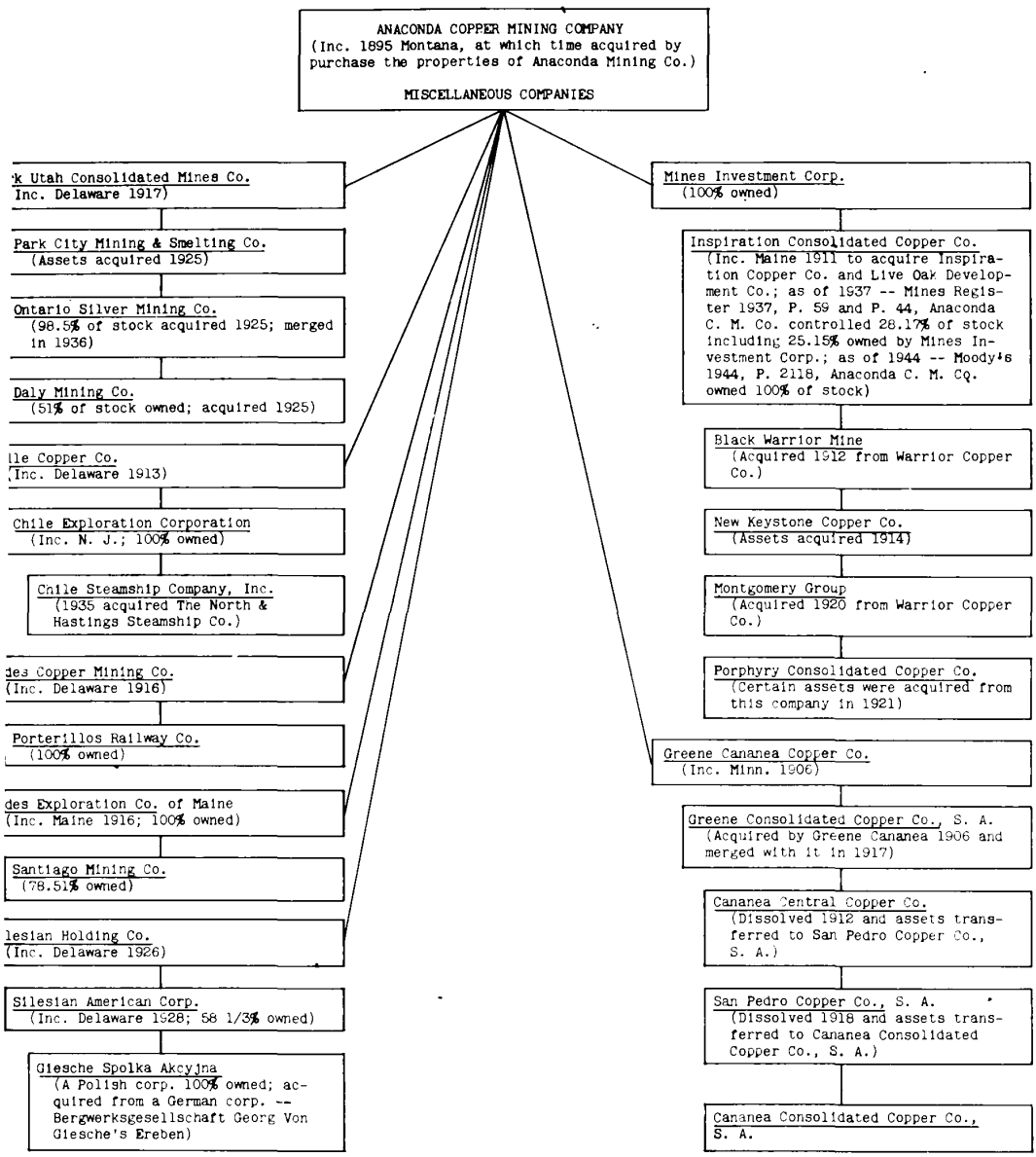


COPPER - LEAD

Anaconda Group



in addition to the one with the Utah Consolidated Mining Co. for the handling of ores of several other mines, one of which was a contract with the Anaconda Copper Mining Co., effective September 1911. A lead smelting plant was erected at International in 1912, and later expanded.

Anaconda Copper Mining Co. acquired all of the assets of the International Smelting & Refining Co. in 1914. However it has continued to operate the International Company as a wholly-owned subsidiary. The acquisition in 1914 was accomplished when stockholders of the International voted to sell the company's property to the Anaconda Copper Mining Co. and surrendered its charter. The property was sold to Anaconda for the sum of $10,392,709. The 10 million dollar stock of International, of which about $4,300,000 was owned by the United Metals Selling Co., was exchanged for Anaconda Copper stock on a basis of 3.3 shares of Anaconda (par $25.00 each) for each $100 share of International stock. The properties of the International located in the States of Utah and Arizona were then transferred directly to a corporation known as the International Smelting Co., organized in Montana in May 1914, with an authorized capital stock of $15,000,000. The International Smelting Co., upon receiving the titles to the properties, issued $9,500,000 capital stock of the Anaconda Copper Mining Co. in payments therefor to the full value thereof. Note that the Anaconda Copper Mining Co. was the sole stockholder at that time. Other assets of the International Smelting & Refining Co., including stocks of the Raritan Copper Works and the International Lead Refining Co. which had been acquired by the International Smelting & Refining Co. in 1909, were then transferred directly to the Anaconda Copper Mining Co. In 1934, the International Smelting & Refining Co. (which Anaconda had previously designated by name as International Smelting Co.) acquired from Anaconda Copper Mining Co. stock of Raritan Copper Works and of International Lead Refining Co. Following the transfer of these properties to International in 1934, the Raritan and the International Lead Refining companies were dissolved.

Other developments and acquisitions accomplished by International Smelting & Refining Co. have included the construction of a smelting plant at Miami, Arizona, the acquisition of a controlling stock interest in Walker Mining Co. in 1918, North Lily Mining Co. in 1924, Mountain City Copper Co. in 1932, National Tunnel & Mines Co. in 1937, and a six month's option on 2,000,000 shares of the capital stock of the Copper Canyon Mining Co. in 1940. 25/

Due to the lack of availability of further information concerning the option thus secured on the 2,000,000 capital stock of the Copper Canyon Mining Co., no showing is made whether such 2,000,000 shares accounted for more than 50 percent of the total outstanding stock, whether the option was exercised and, if so, what has been its significance. It is observed, however, that if the provisions in pending S. 615 and H. R. 2357 had been law, in 1940, the Commission would in accordance with those provisions have received information concerning any acquisition of stock of the Copper Canyon Mining Co. by International Smelting & Refining Co.

Walker Mining Co. was incorporated in 1913 in Arizona, to take over and operate the Walker Mine. The mine was closed down in

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25/ Moody's, 1944, p. 2543.

February 1932 and has operated since only for a brief period between September 1935 and November 1937. 26/ Property of the Walker Mining Co. includes extensive properties in Plumas County, California, consisting of more than 5,000 acres of patented and unpatented mining claims and plants equipped to produce copper at the rate of 20,000,000 pounds annually at full capacity.

North Lily Mining Co. was incorporated in Utah in 1916, to take over Snyder and Horton Groups of mining properties. The International Smelting & Refining Co. secured an option for acquiring the stock control in 1924. Thereafter, in 1926, the North Lily Mining Co. acquired 97.7 percent of capital stock of East Tintic Coalition Mining Co., and in 1930 formed the North Lily Knight Co. and acquired control of several other companies and 100,000 shares of North Lily Mining Co. stock. In 1930 the North Lily Knight Co., as a subsidiary of North Lily Mining Co., acquired from the latter controlling interests in 13 additional mining companies, which are listed in the International Smelting & Refining Co. chart of the Anaconda Group on page 10. 27/

Mountain City Copper Co. was incorporated in Utah in 1932 as a subsidiary of the International Smelting & Refining Co. to own and operate eight claims in Cope Mining District, Elko County, Nevada. Thereafter, it purchased nine claims from Rio Tinto Copper Co.; the latter company was later dissolved. 28/

National Tunnel & Mines Co. was incorporated in 1902 as Utah Apex Mining Co. Its present title was adopted in 1937 when Utah Delaware Mining Co. was acquired. Fifty percent of its capital stock is owned by Anaconda Copper Mining Co. and International Smelting & Refining Co. The National Tunnel property, prior to the acquisition, consisted of 2,427 acres, including mining claims and other lands in Salt Lake and Toole Counties, Utah, and certain other mining claims. Properties of Utah Delaware include mining claims and approximately 938 acres near Bingham Canyon, Utah. Properties of both companies were shut down in 1932 and have been operated only to a negligible extent in certain small areas of the claims since that date. 29/

Butte Copper & Zinc Co. was incorporated in May 1904. The Anaconda Copper Mining Co. acquired 11.6 percent of its stock in 1915, and at that time secured a lease on its properties under which they were being operated in 1940. 30/

Chile Copper Co. was incorporated in Delaware in 1913. Anaconda Copper Mining owns 98.5 percent of its outstanding stock, which was purchased from Guggenheim Brothers in 1923. The Chile Co. owns the entire outstanding capital stock of the Chile Exploration Co., a New Jersey corporation. The properties are located in Chile and consist of mines, mill sites, mining rights, easements, concessions and claims covering an area of approximately 20,000 acres with mining and reduction capacity rated at 450,000,000 pounds of copper annually. 31/

Andes Copper Mining Co. was incorporated in Delaware in 1916. Prior to 1936, Andes Copper Mining Co. owned 83.27 percent of its outstanding capital stock and thereafter acquired an additional 14.5 percent formerly held by its wholly-owned subsidiary, Andes Exploration Co. of Delaware, which was dissolved in 1936. 32/ Andes Copper Mining

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26/ Poor's, 1938, p. 2126.
27/ Mines Register, 1937, p. 75.
28/ Ibid., p. 74.
29/ Moody's, 1938, p. 2811.
30/ Moody's, 1944, p. 2543, and Record of TNEC Hearings, Part 25, p. 13387.
31/ Moody's, 1938, pp. 2801 and 2808; Mines Register, 1937, p. 59; and Poor's, 1925, p. 1125.
32/ Mines Register, 1937, p. 59, and SEC-Doc. 1-1053-1.

Co. owns mining rights and claims located in Chile, covering an area of approximately 2,000 acres and, in addition, owns through purchase 277,380 acres of land for water resources, with metallic and non-metallic claims covering 687 acres. It also holds metallic and non-metallic claims covering 12,629 acres for its reduction works, railroad townsites and miscellaneous properties. Its plants had, as of 1937, a productive capacity of 230,000,000 pounds of copper annually. 33/

Andes Exploration Co. of Maine was incorporated in Maine in 1916, a wholly-owned subsidiary of Anaconda Copper Mining Co., with mining properties in Peru containing reserves said to amount to 20,000,000 tons of 1.92 percent copper ore. 34/ In 1924, Anaconda owned its entire capital stock. It and Anaconda, as of 1937, also owned practically all of the capital stock of the Santiago Mining Co., which was incorporated in 1917 and which owned considerable mining claims and rights in Chile. 35/

Mines Investment Corp. is 100 percent owned by Anaconda. It owns 28.17 percent of Inspiration Consolidated Copper Co. and, in addition, owned $7,643,000 in notes of Inspiration due September 30, 1936, and extended. An examination of the various files of the Securities and Exchange Commission failed to disclose the direct information that Anaconda created Mines Investment Corp., or otherwise first obtained control or interest therein. However, Poor's, 1938, p. 2118, discloses that it is 100 percent owned by Anaconda and that it, in turn, owns 28.17 percent of Inspiration. In other ways Inspiration Consolidated Copper Co. is affiliated with Anaconda Copper Mining Co. For example, the two own the outstanding capital stock of the Arizona Oil Co. which owns interest in oil-bearing lands leased to others. 36/

Greene Cananea Copper Co. was incorporated in Minnesota, in 1906, to acquire the outstanding stock of Greene Consolidated Copper Co. which, in turn, owned the entire stock of Cananea Consolidated Copper Co., S.A., and the Cananea Central Co. During 1912 the latter company was dissolved and all of the mines and properties transferred to San Pedro Copper Co., S. A. In 1918, Cananea Consolidated Copper Co., S.A., acquired the properties of San Pedro Copper Co., which latter company was dissolved. On June 12, 1917, Greene Cananea merged the Greene Consolidated, issuing one share of stock of Greene Cananea for two shares of Greene Consolidated. With this acquisition Greene Cananea obtained possession of practically all capital stock of Cananea Consolidated Copper Co., the operating company. Greene Cananea now acts as a holding company for Cananea Consolidated Copper Co., S.A., which holds mining claims or titles and concessions covering an area of about 9,000 acres at Cananea, State of Sonora, Mexico. The claims consist of grants from the Mexican Government to mine and recover the metals so long as said Mexican company pays the annual taxes thereon. Reduction works have a production capacity of approximately 100,000,000 pounds of copper annually. Estimated ore reserves as of 1935 were sufficient to maintain production of approximately 60,000,000 pounds copper annually for about eight years. In 1929, Anaconda Copper Mining Co. acquired a controlling stock interest in Greene Cananea Copper Co.

33/ Moody's, 1938, p. 2807.
34/ Mines Register, 1937, p. 87.
35/ Ibid., p. 87.
36/ Moody's, 1944, p. 2543.

The Anaconda Company as of 1938 owned 98.34 percent of the outstanding capital stock. 37/

Silesian Holding Co. was incorporated in Delaware in 1926. Anaconda owns voting stock certificates representing 65 percent of the stock, with the voting trust expiring July 1, 1946. The Silesian Holding Co. in turn owns 58-1/3 percent of the stock of a Delaware corporation which was formed in 1926, known as Silesian American Corp., which in turn wholly owns a Polish corporation, Giesche Spolka, which was acquired from a German corporation. The properties of the Giesche concession include proved zinc ore reserves sufficient for 50,000 metric tons annual production for about 20 years. It also owns large concentrating, smelting and refining plants for treatment and production of lead, zinc, and silver, with zinc and lead rolling mills and other by-products factories, as well as some 1,400 workmen's homes and over 19,000 acres of landed estates. 38/

Park Utah Consolidated Mines Co. was incorporated in Delaware, in 1917, as the Park Utah Mining Company. The name was changed to the present title in 1925, at which time the company acquired the assets of the Park City Mining & Smelting Co. and 98 percent of the stock of the Ontario Silver Mining Co. The latter company was merged into the Park Utah Consolidated Mines Co., in 1936. In 1942, Anaconda acquired 408,428 additional shares of Park Utah Consolidated Mines Co., increasing its holdings to 478,228 shares, or 22.86 percent of the total outstanding stock. 39/

American Brass Co. was incorporated in Connecticut, in 1899, to manufacture and deal in brass, copper and kindred metals. Thereafter, it acquired the assets of a number of independent manufacturers of brass and copper fabricating companies, as is shown by the chart on page 11. 40/ All stock of the American Brass Co. was acquired by the Anaconda Company in 1922. 41/ It is said that American Brass Co. after its acquisitions of assets and stock of independent manufacturers in 1912, and immediately thereafter, had largely acquired the control of the output of brass in this country and attained the position of the largest consumer of copper in the United States. 42/ After its control was acquired by Anaconda, subsequent acquisitions were made by it of other independents such as American Metal Hose Co. and French Manufacturing Co.

Anaconda Wire & Cable Co. was incorporated in Delaware, in 1929, to take over Great Falls Rod & Wire Mill of Anaconda Copper Mining Co. and Kenosha Wire Mill of the American Brass Co. It subsequently acquired the plants and assets of the companies shown on the chart on page 12. As of 1934, Anaconda Copper Mining Co. owned 64.67 percent of the outstanding capital stock. 43/

It is seen from the foregoing that Anaconda through consolidations, mergers and acquisitions of stock control has concentrated within its corporate structure economic power and control over not only a substantial part of the production, smelting and refining of copper in the United States and throughout the world, and of a

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37/ Moody's, 1938, pp. 2801 and 2809.
38/ Ibid., pp. 2801 and 2812.
39/ Ibid., 1944, p. 2543, and p. 352.
40/ Ibid., 1916, pp. 2039 and 2040.
41/ Ibid., 1944, p. 2543.
42/ Ibid., 1916, pp. 2039 and 2040.
43/ Poor's, 1935, p. 2519.

considerable volume of lead in the United States, but has also secured such control over a very large part of the fabrication of copper and brass items in the United States. In that connection, attention is called to the testimony of Mr. Cornelius F. Kelley, president of Anaconda Copper Mining Co., in hearings before TNEC, January 1940, in which he stated that approximately 75 percent of the primary fabricating capacity in the United States is owned by producing companies such as Phelps Dodge, Kennecott and Anaconda, of which Anaconda's control of American Brass was cited as an example. 44/

While the producers thus named by Mr. Kelley were not in competition with the first of the fabricators, they have absorbed, they are now in competition with the remaining few who represent the 25 percent independent productive capacity. Such remaining few independents find it necessary to turn to their competitors who are producers of copper for supplies and raw materials. The competitive advantage over the independent fabricators, thus accruing to the integrated combines, such as Anaconda, are many. Therefore, if all other factors were to remain equal, such as efficiency in the management, etc., it would appear that the result would be that the stronger would grow stronger and the weaker grow weaker in the fabricating industries.

It is also noted in passing that Anaconda Copper Mining Co. has other and diversified interests, some of which relate to and are used as facilities in the principal businesses in the copper and lead industries, while others would appear to have little or no relevancy to such businesses. Reference is made to such subsidiaries as Anaconda Sales Co., Tooele Valley Railway Co., Butte, Anaconda & Pacific Railway Co., Butte Water Co., Montana Hardware Co., Diamond Coal & Coke Co., Arizona Oil Co., Blackfoot Land Development Co., Deer Lodge Valley Farms Co., and Interstate Lumber Co. The Anaconda Group charts, heretofore referred to, also show that Anaconda did own and operate the Mountain Trading Co., Butte Electric Railway Co. and Anaconda Lead Products Co., all of which were dissolved in 1936. It is worthy to note that of the lumber mills under Anaconda's control those at Bonner, Montana, have a capacity of about 100,000,000 board feet per year, and only part of the production of which is used by the company -- the other parts of such production are sold at wholesale and retail. The timber thus produced comes from company lands in Western Montana, which embraces about 625,000 acres. 45/

KENNECOTT GROUP

Kennecott Copper Corporation was incorporated in New York, in 1915, to engage in the business of mining, milling, concentrating, reducing, preparing for market, buying, selling and merchandising ores, metals and minerals. It acquired at that time all of the properties and assets of the Kennecott Mines Co. and the entire capital stock of the Beatson Copper Co., a Nevada corporation, which was dissolved October 4, 1915.

Kennecott Mines Co. properties were located about three miles from Kennecott, Alaska, at the terminus of the Copper River and Northwestern Railway. Beatson Mines owned Latouche Island, Prince William

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44/ Record of TNEC Hearings, Part 25, p. 13099.
45/ Moody's, 1944, p. 2543.

Sound, Alaska. The corporation also acquired, and as of 1935 owned, 22 patented lode mining claims and 16 patented placer mining claims at Kennecott, Alaska, having an area of 2,434 acres, as well as numerous other mining properties in Alaska. 46/

The Corporation, as of 1938, also owned or controlled directly, or indirectly through controlled subsidiaries, two major groups of copper properties in the United States and large mines in Chile. The domestic properties include those grouped in Bingham District of Utah and the Nevada Consolidated holdings in Nevada, Arizona and New Mexico. The Chilean properties consist of Braden Copper holdings. Taken together, all of its properties have established this corporation as the largest producer of copper in this country and one of the two largest copper mining enterprises in the world. 47/ Production of domestic properties reached a total of 598,773,000 pounds and the Chilean output 318,170,000 pounds for 1937. Average annual production for domestic operations for the five-year period of 1933-1937 was about 290,000,000 pounds, while the output from the foreign division averaged about 235,000,000 pounds. 48/ Considerable quantities of gold and silver are recovered as by-products from its copper operations.

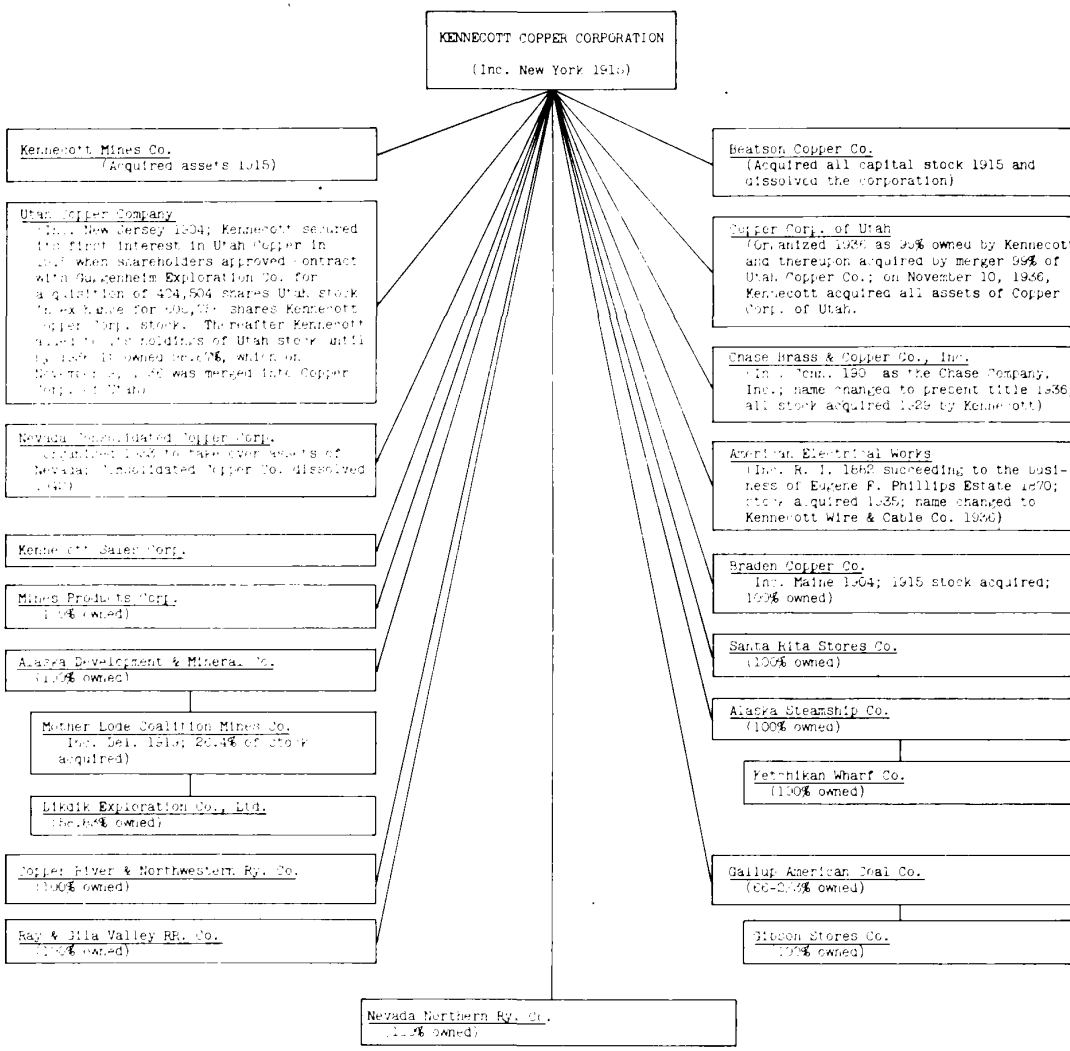
The principal acquisition of properties in the United States by Kennecott Copper Corp. has been accomplished through its acquisition or control over Utah Copper Co. (Note charts on pages 20, 21 and 22.) Utah Copper Co. was incorporated in New Jersey in 1904. Kennecott secured its first interests in that company in 1915, when shareholders approved a contract with Guggenheim Exploration Co. for acquisition of 405,504 shares of Utah stock in exchange for 606,756 shares of Kennecott Copper Corp. stock. Thereafter, Kennecott added to its holdings of Utah stock until by 1936 it owned 98.87 percent of the outstanding stock. On November 9, 1936, Kennecott merged Utah Copper Co. into Copper Corp. of Utah. 49/ Acquisitions of mining properties and other facilities theretofore acquired by Utah Copper Co. are outlined on a chart on page 21. They include properties of Nevada Consolidated Copper Co., Boston Consolidated Mining Co. and Shawmut Consolidated Copper Co. It is also shown that Nevada Consolidated Copper Co. had previously acquired the assets of Cumberland-Ely Copper Co., Steptoe Valley Smelting & Refining Co., Ray Consolidated Copper Co. and Chino Copper Co. 50/

Just as it through its 100 percent stock-controlled Braden Copper Co., which it acquired in 1915, has expanded its resources and productive facilities in South America, so has it expanded its control over copper mining resources and production facilities through its 100 percent owned Alaska Development & Mineral Co. which in turn owns 58.8 percent of the stock in the Dikdik Exploration Co., Ltd., and 26.4 percent of the capital stock of Mother Lode Coalition Mines Co. The latter was incorporated in Delaware in 1919. Its property approximates 1,500 acres adjoining Bonanza Mine of Kennecott Copper Corp. and Houghton of Alaska Group to the East, also adjoining Kennecott's Jumbo Mine in Copper River District, Alaska. 51/

46/ Poor's, 1935, p. 2688.
47/ Standard Corporation Records, Revised 5/3/38 and 9/17/38.
48/ Ibid.
49/ Moody's, 1944, p. 1672.
50/ Moody's, 1944, p. 1672 and Mines Register, 1937, p. 470.
51/ Mines Register, 1937, p. 611.

COPPER

Kennecott Group



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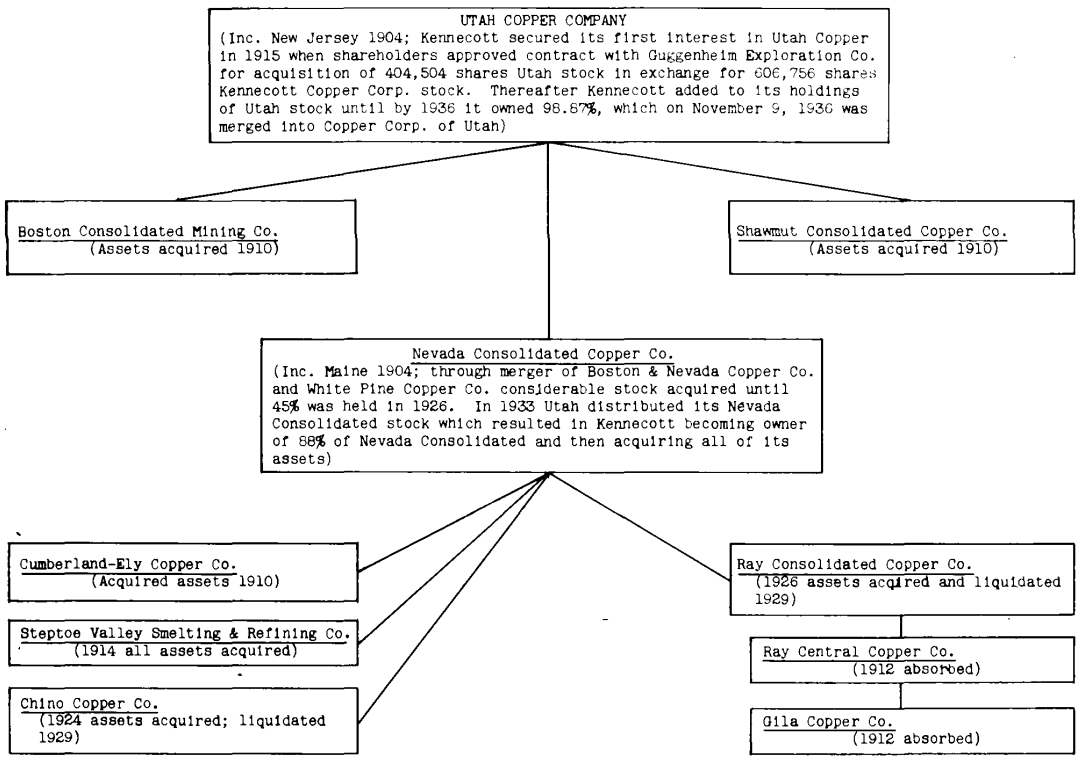
Kennecott Group



founded not only on the parts played by members of the family of M. Guggenheim & Sons in the formation and organization of the Kennecott Mines properties in Alaska and the Braden Copper Co., in 1904, to develop a large copper deposit in Chile, but also upon the continuing part played by the Guggenheim brothers in the management and direction of the corporation. It is noted that as recently as 1934 Edmond A., Murry, and S. R. Guggenheim were members of the board of directors of the corporation. 57/ The family also maintain representation on the executive, finance and other committees of the corporation. Full and complete information concerning the exact amounts of stock held in the corporation by each member or representative of Guggenheim interests is not available. However, it is noted that as of February 26, 1938, S. R. Guggenheim as a holder of record of the common voting stock was listed as holding 127,929 shares. 58/ It is also noted that as of March 19, 1938, he also held as a holder of record 45,671 common voting shares of the Anaconda Copper Mining Co.; and the Commercial Trust Company of New Jersey, as trustee u/t/a of Morris Guggenheim, for Lucille G. Gimbel, June 28, 1917, as a holder of record, held 55,571 shares of the common voting stock of the Anaconda Copper Mining Co. 59/ Effective stock control of Kennecott and Anaconda rests with beneficial owners whose names were not divulged, even in reports made to the Securities & Exchange Commission.

Some of the mining property of the Guggenheim interests has been taken over by the Phelps Dodge Corporation, which began as a copper fabricator and later acquired interests in smelters and mines. The Phelps Dodge Corporation operates mines in Arizona. Some of its ore is treated in its own smelters; the Nichols Copper Co. and the American Smelting & Refining Co. have also refined the Phelps-Dodge copper. 60/ The board of directors of the latter for several years included in its membership several members of the Guggenheim family. 61/ Such membership on the board of directors followed a merger of M. Guggenheim & Sons with American Smelting & Refining Co. 62/ However, in more recent years, with particular reference to a period beginning in 1921, the Guggenheim interests became more directly identified in the sale of copper produced by Kennecott Copper Corp. than with the sale of copper produced, smelted or refined by American Smelting & Refining Co. In that connection, Guggenheim Brothers, a partnership dating back to 1890, consisting of Daniel, Murry, O. R. and Simon Guggenheim, John K. MacGowan and E. A. Chappelen Smith, 120 Broadway, New York, entered the business of selling on a commission basis, including the production of Kennecott Copper Corp., Chile Exploration Co., Braden Copper Co., Utah Copper Co., Ray Consolidated Co., Chino Copper Co. and Nevada Consolidated Copper Co. The Mother Lode Coalition Mines Co., whose copper had previously been sold through the sales efforts of American Smelting & Refining Co., switched the sale of its copper to Guggenheim Bros. on February 1, 1924. Information is not available upon which one may base an accurate appraisal of what, if any, effect such common selling agency in the hands of Guggenheim Bros. had in facilitating some of the acquisitions by Kennecott Copper Corp., as heretofore outlined.

57/ Poor's, 1935, p. 2665.
58/ TNEC Monographs, V. 10, No. 29, Distribution of Ownership, p. 1008.
59/ Ibid., p. 990.
60/ Moody's, 1944, p. 1752.
61/ Moody's, 1904, p. 1563; 1906, p. 1661; and 1908, p. 2067.
62/ Quarterly Journal of Economics, Aug. 1927, pp. 708-709, and Moody's, 1906, p. 1661.

PHELPS DODGE GROUP

Phelps Dodge Corporation was incorporated in New York, in 1885, as Copper Queen Consolidated Mining Company; its name was changed to Phelps Dodge Corporation, in 1917, when it acquired interests of Phelps Dodge & Company, Inc., a holding company. While it is one of the three leading domestic producers of copper, it is also one of the principal fabricators of copper and brass products in the United States. Approximately 55 percent of its copper production is sold in the form of fabricated products produced by one of its subsidiary and affiliated companies. The company's fabrication division produces various types and sizes of copper wire and cable, bars, condenser tubes, brass, copper and bronze plate and fittings, heater and core tubes and sundry copper alloys. 63/ Its mining and smelting operations as of 1938 were concentrated at three active mines in Arizona. In addition, the company operated in Mexico and plans were under way to bring into production by about 1942 the important Clay ore body at Morenci, Arizona, at a cost of approximately $28,700,000. 64/

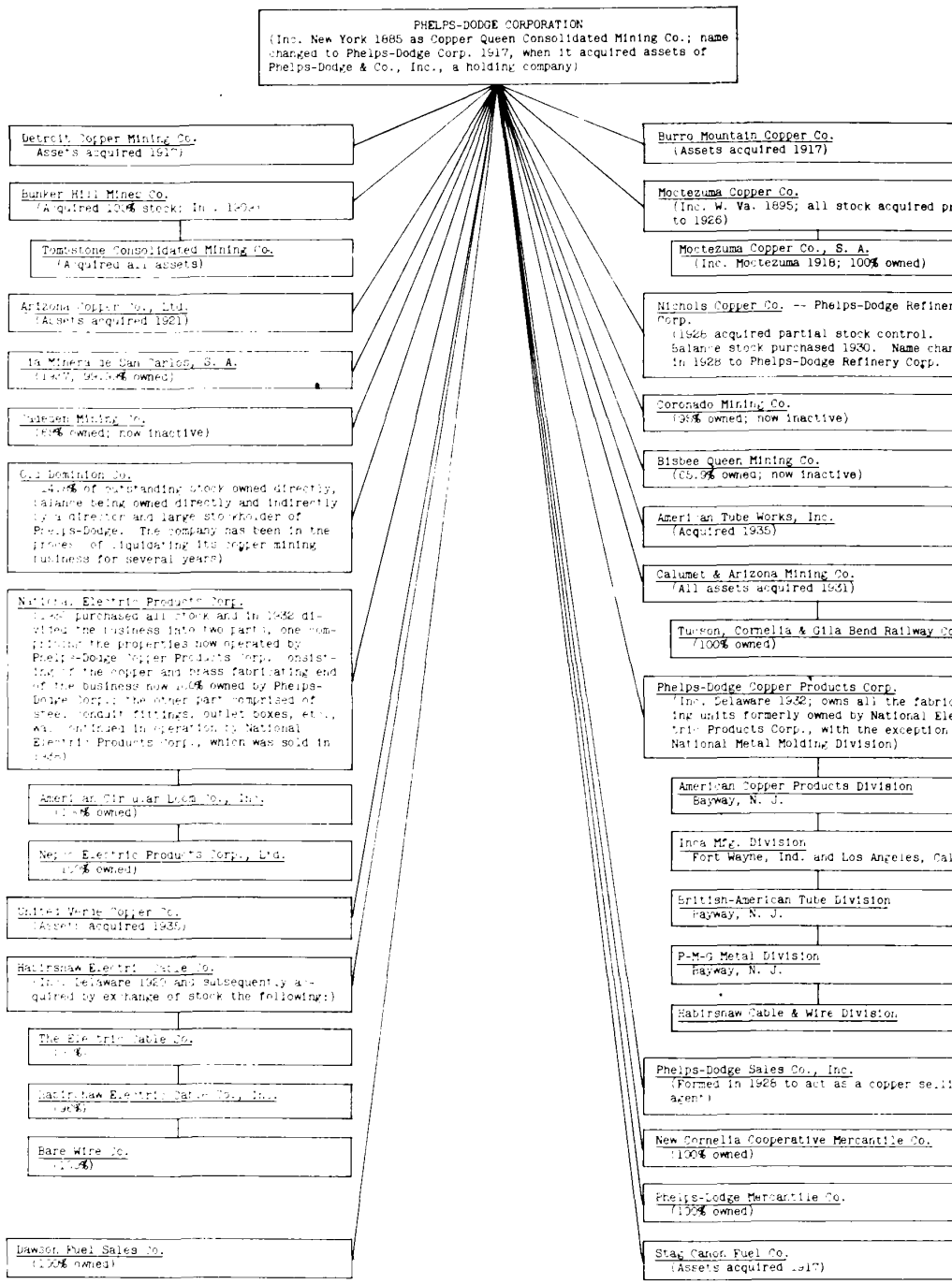
Phelps Dodge & Company was incorporated in New York, in 1908. Prior to 1917, it owned the entire capital stock of Copper Queen Consolidated Mining Co., Detroit Copper Mining Company of Arizona, Burro Mountain Copper Co., Stag Canyon Fuel Co., Moctezuma Copper Co., Bunker Hill Mines Co. and Phelps Dodge Mercantile Co. It was decided early in 1917 to unite all of these companies under a single company which should own and operate or control through stock ownership all of the properties. The stock of the Copper Queen Consolidated Mining Co. was therefore increased from $2,000,000 to $50,000,000 and the name changed to Phelps Dodge Corporation. Thereafter, the previously named operating companies transferred their properties to the Phelps Dodge Corp., together with the remaining assets of Phelps Dodge & Co., all for $45,000,000 of its stock. Thus, all of the properties and other assets formerly owned by Phelps Dodge & Co. passed into the hands of Phelps Dodge Corp. and the prior company was dissolved on May 15, 1917, distributing in liquidation the $45,000,000 stock of Phelps Dodge Corp. share for share to holders of the $45,000,000 stock of the old company.

In 1921, Phelps Dodge Corp. acquired all the assets of Arizona Copper Co., Ltd., including the Arizona & Mexico R. R., and later sold the railroad properties to the El Paso & Southwestern System. These acquisitions included mining property and the 4,000-ton-per-day concentrator and modern smelter with a capacity of 5,000,000 pounds. Thereafter, in 1928, the corporation, with others, acquired an interest in Nichols Copper Co. and in connection therewith built a copper refinery at Elpaso, Texas, in 1929. In 1930, the corporation acquired practically all of the outstanding shares of the Nichols Copper Co., and thereby secured control over its assets, properties and subsidiary corporations which are shown on the chart appearing on page 26. 65/

In 1930, the Corporation purchased all of the stock of the National Electric Products Corporation (manufacturer of copper, steel, rubber and textile products for electrical purposes) and thereafter, in 1932, divided the business of that concern into two parts, one comprising the properties now operated by Phelps Dodge Copper Corporation, consisting

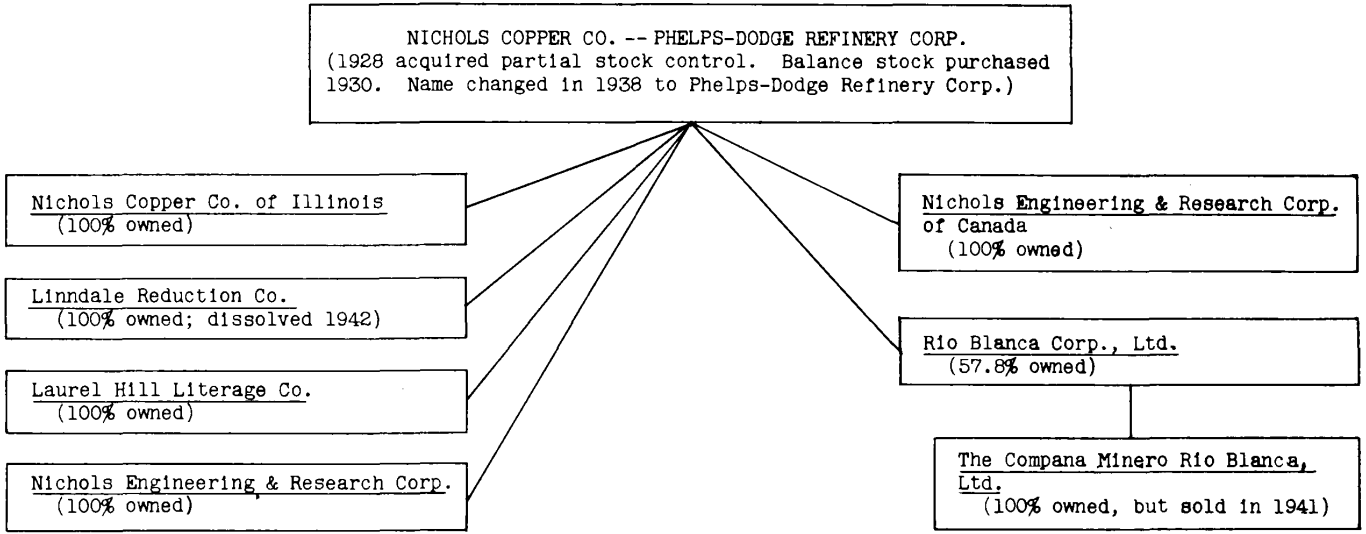
63/ Standard Corporation Records, Revised, April 26, 1938, and Moody's, 1944, p. 2752.
64/ Standard Corporation Records, Revised, December 15, 1938.
65/ Poor's Industrials, 1935, p. 2593.

Phelps - Dodge Group



COPPER

Phelps - Dodge Group



of the copper and brass fabricating end of the business now 100 percent owned by Phelps Dodge Corp.; the other part comprised of steel conduit, fittings, outlet boxes, etc., was continued in operation by National Electric Products Corp. 66/ The assets and corporation structure thus remaining as National Electric Products Corp. were sold to W. C. Robinson & Associates, February 18, 1935. 67/ The Phelps Dodge Copper Products Corp. thereafter became the principal instrumentality of Phelps Dodge Corp., through which it fabricated copper and brass items. It not only undertook the operation of the fabricating assets which had been acquired by Phelps Dodge Corporation from National Electric Products Corp., but also the assets which had previously been operated by Habirshaw Electric Cable Co., which had been incorporated in Delaware in 1920. Phelps Dodge Copper Corporation therefore, as a wholly-owned subsidiary of the Phelps Dodge Corp., operates the following divisions:

American Copper Products Division, Bay Way, New Jersey; Inca Manufacturing Division, Fort Wayne, Indiana, and Los Angeles, California; British-American Tube Division, Bay Way, New Jersey; P-M-G Metal Division, and Habirshaw Cable & Wire Division, 68/ American Tube Works, Inc., having been acquired in 1935.

The corporation acquired assets of Calumet & Arizona Mining Co. in October 1931, issuing in exchange therefor Phelps Dodge Corp. stock. Previously, the Phelps Dodge Sales Co., Inc., was formed in 1928 to act as a copper selling agency not only for Phelps Dodge Corp., but also for others including Calumet & Arizona Mining Co. and Old Dominion Co., but since the Calumet & Arizona Mining Co. was acquired in 1931 all copper sales have been handled by the Sales Department of the Phelps Dodge Corp. 69/ One of the principal subsequent acquisitions was that of the United Verde Copper Company, in which the corporation acquired a controlling interest in 1935 from the heirs of the late Senator W. A. Clark, who owned 94 percent of the outstanding shares. 70/ Cia. Minera de San Carlos, S.A., was formerly a subsidiary of United Verde Copper Co. and became a subsidiary of Phelps Dodge in 1935, when the United Verde Company control was acquired by Phelps Dodge, which later acquired additional shares and held 99.99 percent of those outstanding by mid 1937. The Cia. Minera holds its properties in Mexico under a 25-year lease from September 1928, which can be extended at the option of the company for another 20 years. The properties include about 445 acres in Chihuahua, Mexico, 54 miles by road from Presidio, Texas. 71/

Subsidiaries of the Corporation, consolidated and unconsolidated, included in reports filed with the registration statements, and subsequently with the Securities and Exchange Commission, reported as inactive subsidiaries, with the percentages of ownership, are:

Coronado Mining Company.....	95	percent
Cadeden Mining Company.....	68	percent
Bisbee Queen Mining Company.....	65.9	percent
Burro Mountain Copper Co.....	100	percent
Arizona Copper Co.....	100	percent
Rio Blanca.....	57.8	percent 72/

66/ Moody's, 1944, p. 2752.
67/ Poor's Industrials, 1935, p. 2593.
68/ Moody's, 1944, p. 2752.
69/ Poor's Industrials, 1935, p. 2593.
70/ Ibid.
71/ Mines Register, 1937, p. 748.
72/ Papers filed with SEC May 23, 1936, pp. 3-8, Doc. 1-82-1. See also SEC File 2-3150-1

As of 1938, the copper mining properties directly and indirectly owned or controlled by the Phelps Dodge Corp. included 12,740 acres in the Warren Mining District, Bisbee, Arizona, known as the Copper Queen branch; 3,670 acres in Ajo Mining District, Pima County, Arizona, known as New Cornelia branch; 2,180 acres of patented mining claims and 4,000 acres unpatented claims in Verde Mining District at Jerome, Arizona, known as United Verde branch; 9,290 acres patented mining claims and other lands in Copper Mountain and Greenlee Gold Mining Districts, of Morenci, Arizona, known as Morenci branch; 3,100 acres in Moctezuma Mining District, Sonora, Mexico, known as Moctezuma Copper Company, Mexico branch. Production from those properties in 1937 exceeded 314,000,000 pounds and showed a growth in the corporation's total production from a low of 83,000,000 pounds in 1932. 73/

Other miscellaneous companies which have been organized by the corporation include New Cornelia Mercantile Company and Dawson Sales Company. Little information is available concerning the degree to which those companies relate to the corporation's principal business of copper mining, smelting, refining and fabricating.

AMERICAN SMELTING & REFINING GROUP

American Smelting & Refining Co. as a producer of lead, copper and other nonferrous metals, is now primarily so because of its operations as a custom smelterer and refiner, although it continues to own and operate extensive mining properties. It was organized in April 1899 by consolidating into a single corporate ownership 17 smelters, 8 refineries and a number of mines and mining claims. 74/ The properties thus consolidated include:

Omaha & Grant Smelting & Refining Co.
San Juan Smelting & Refining Co.
Consolidated Kansas City Smelting & Refining Co.
Kansas City Smelting & Refining Co.
Arkansas Valley Smelting Co.
El Paso Smelting Co.
Mexican Ore Company
International Metal Co.
United Smelting & Refining Co.
National Smelting & Refining Co.
Helena & Livingston Smelting & Red. Co.
Montana Smelting Co.
Colorado Smelting Co.
Chicago & Aurora Smelting & Refining Co.
Pennsylvania Lead Co.
Pennsylvania Smelting Co.
Globe Smelting & Refining Co.
Pueblo Smelting & Refining Co.
Germania Lead Works
Abraham Hanauer, Partnership
Ibex Manufacturing & Smelting Co.
Bi-Metallic Smelting Co.

73/ Standard Corporation Records, Revised as of April 1938.
74/ Report to the Stockholders of American Smelting & Refining Co. as made by Stockholders' Committee of Investigation, May 10, 1922, p. 5.

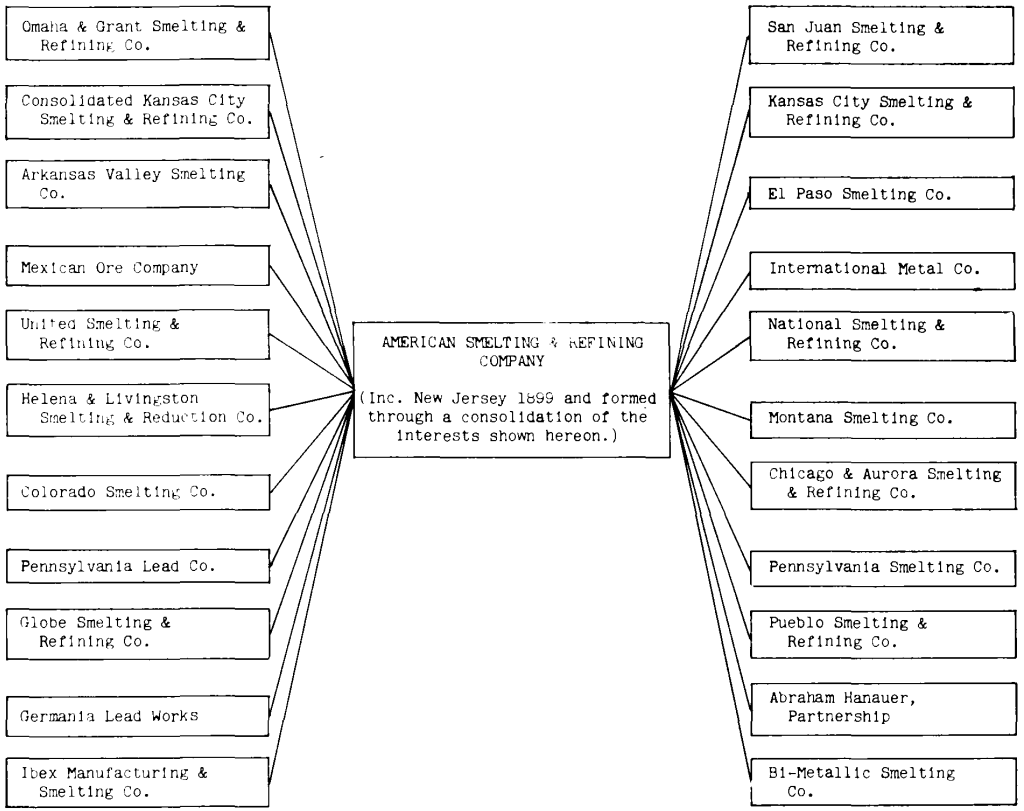
The purchase price of the assets thus acquired amounted in the aggregate to $27,400,000, and that amount of preferred capital stock of American Smelting & Refining Co. and a like amount of common stock was issued, making the total original capitalization of American Smelting & Refining Co. $54,800,000. 75/

The promoters of the company intended and desired to include in the consolidation which provided the basis for the formation of the American Smelting & Refining Co. the plants and other assets of what promised would be one of its principal competitors, namely, M. Guggenheim & Sons, but since they were unwilling to come in under the terms then provided it was not until 1901 that they joined the company. That merger in 1901 was accomplished by transfer to the Smelting Company by M. Guggenheim & Sons of certain properties, quick assets and cash in consideration of the issue to them of $45,200,000 par value of stock, half preferred and half common. 76/ The assets thus acquired included those previously owned by M. Guggenheim & Sons which, among others, included Philadelphia Smelting & Refining Co., a Colorado corporation, 100% owned; Guggenheim Smelting Co., a West Virginia corporation, 100% owned; Great National Mexican Smelting Company, a Colorado corporation, 100% owned, and Compania Huanchaca de Bolivia, owned lease and contracts. (For a listing of those companies, as well as subsequent acquisitions of assets and stock control of other companies, see the chart on page 32.) 77/

In 1905, American Smelting & Refining Co. organized a New Jersey corporation known as American Smelters Exploration Company, the name of which was later changed to that of the American Smelters Securities Company, for the purpose of taking over properties of Guggenheim Exploration Company, a New Jersey corporation, which had been formed in 1899. 78/ In what follows with reference to Guggenheim & Company, to the Smelters Exploration Company, and to the Securities Company, confusion will be avoided if it is understood that references to "Guggenheim Company" are to the Guggenheim Exploration Company as organized by the Guggenheim family in 1899, and references to "Smelters Exploration Company" are to American Smelters Exploration Company which was organized on March 30, 1905, to take over the properties of the Guggenheim Company, and references to the "Securities Company" are to American Smelters Securities Company. The latter resulted virtually as a reorganization of the Smelters Exploration Company with an increased capitalization for the acquisition of new properties. The reorganization of this latter company made possible the ultimate development of the American Smelting & Refining Co. into the large copper smelting company that it has been in later years. This reorganization of the American Smelters Exploration Company, with its name changed to the American Smelters Securities Company, was effected only about six weeks after the original organization on March 30, 1905. The assets and stock controls over those various companies which were involved in acquisitions by American Smelters Securities Company, including those acquired from Guggenheim Exploration Company, are listed in detail on the chart on page 32. It is noted that they include the following:

75/ Ibid.
76/ Ibid.
77/ Ibid.
78/ Ibid., p. 18

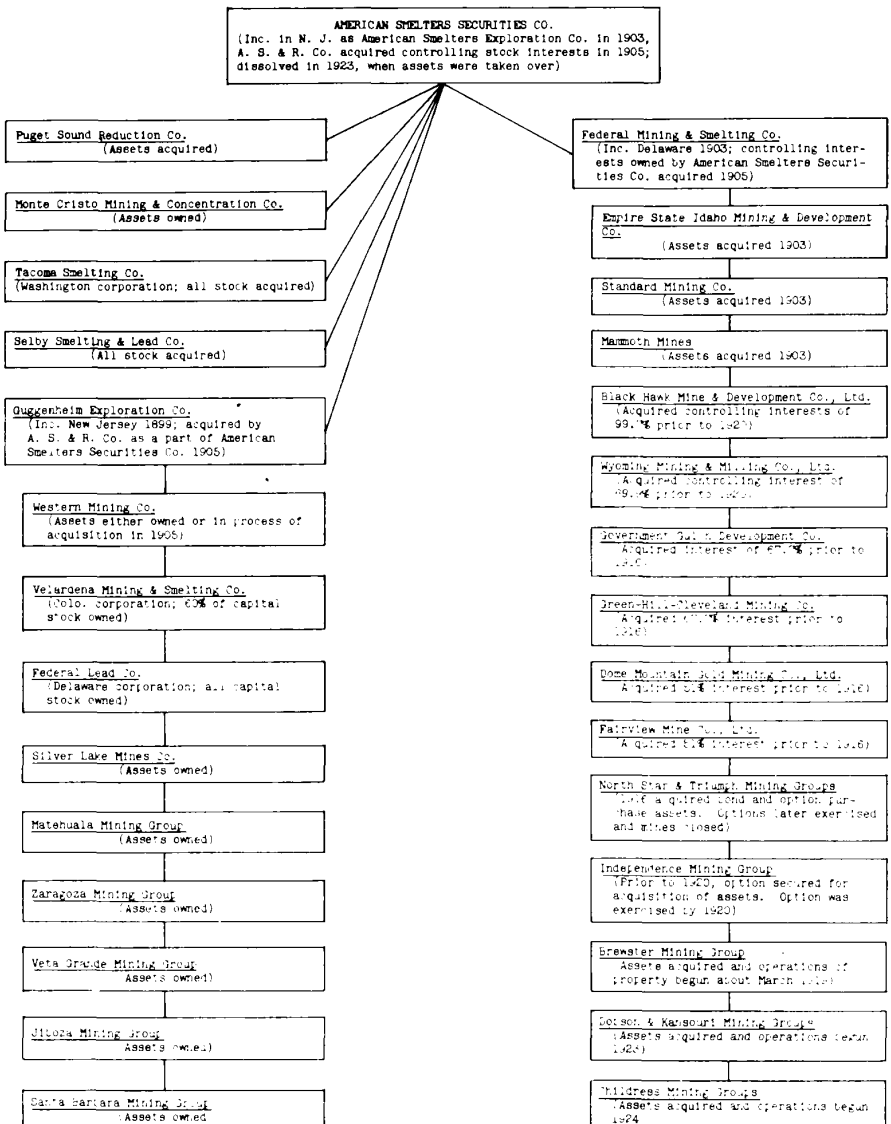
American Smelting Group



American Smelting Group

COPPER - LEAD

American Smelting Group



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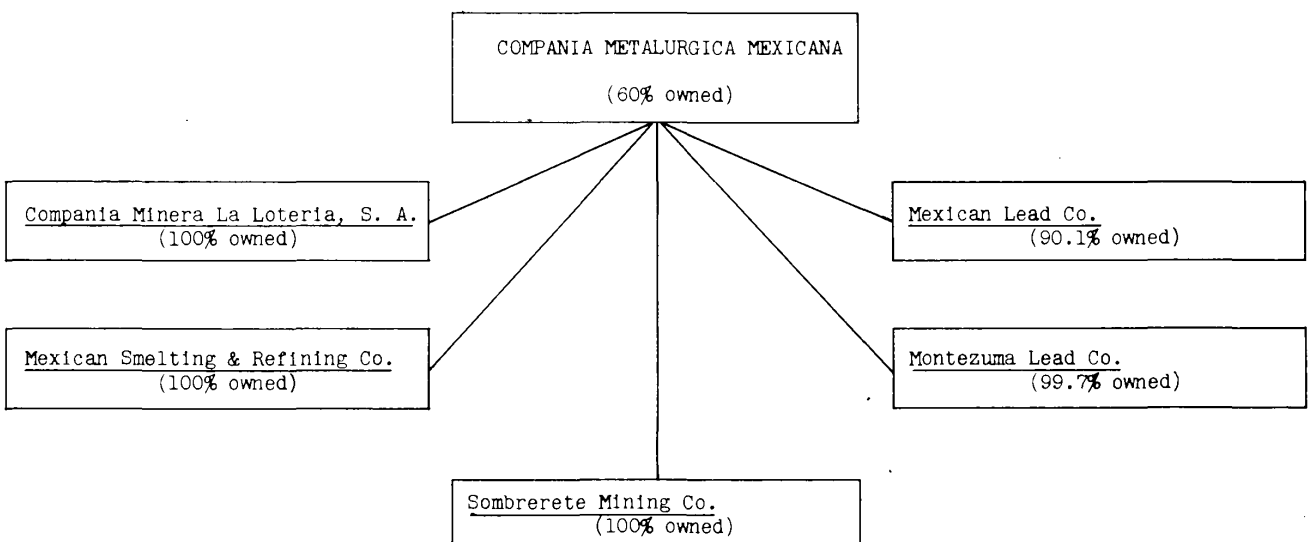
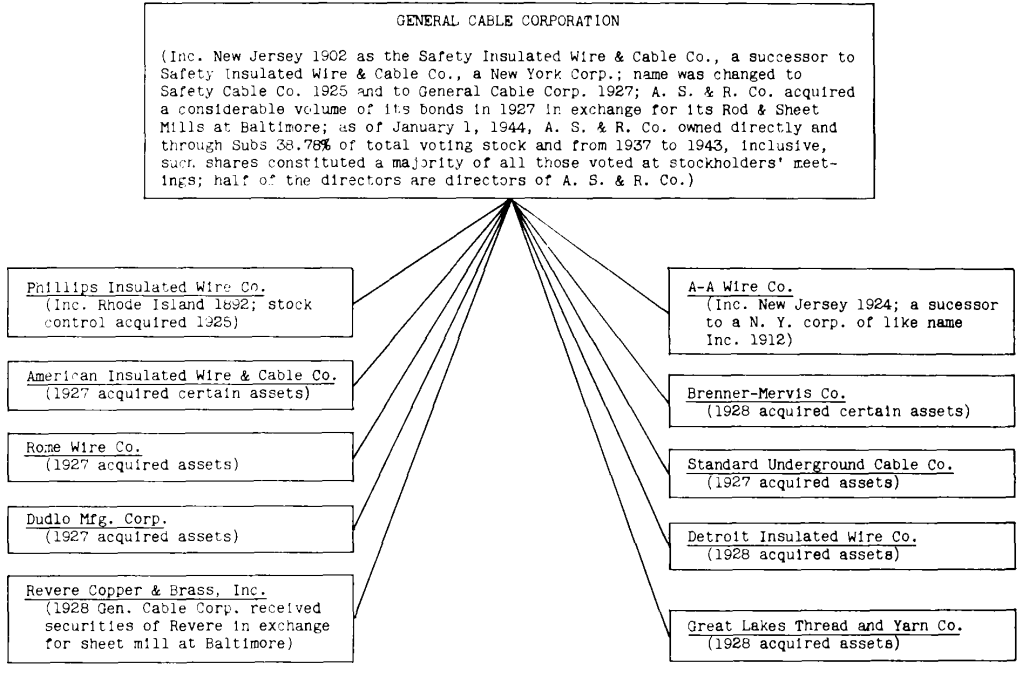
American Smelting Group



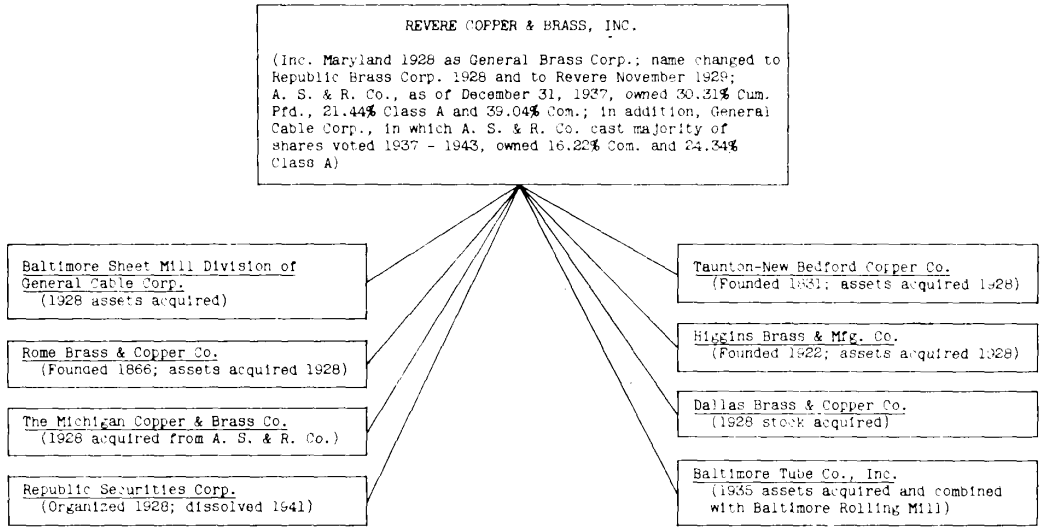
COPPER - LEAD

American Smelting Group



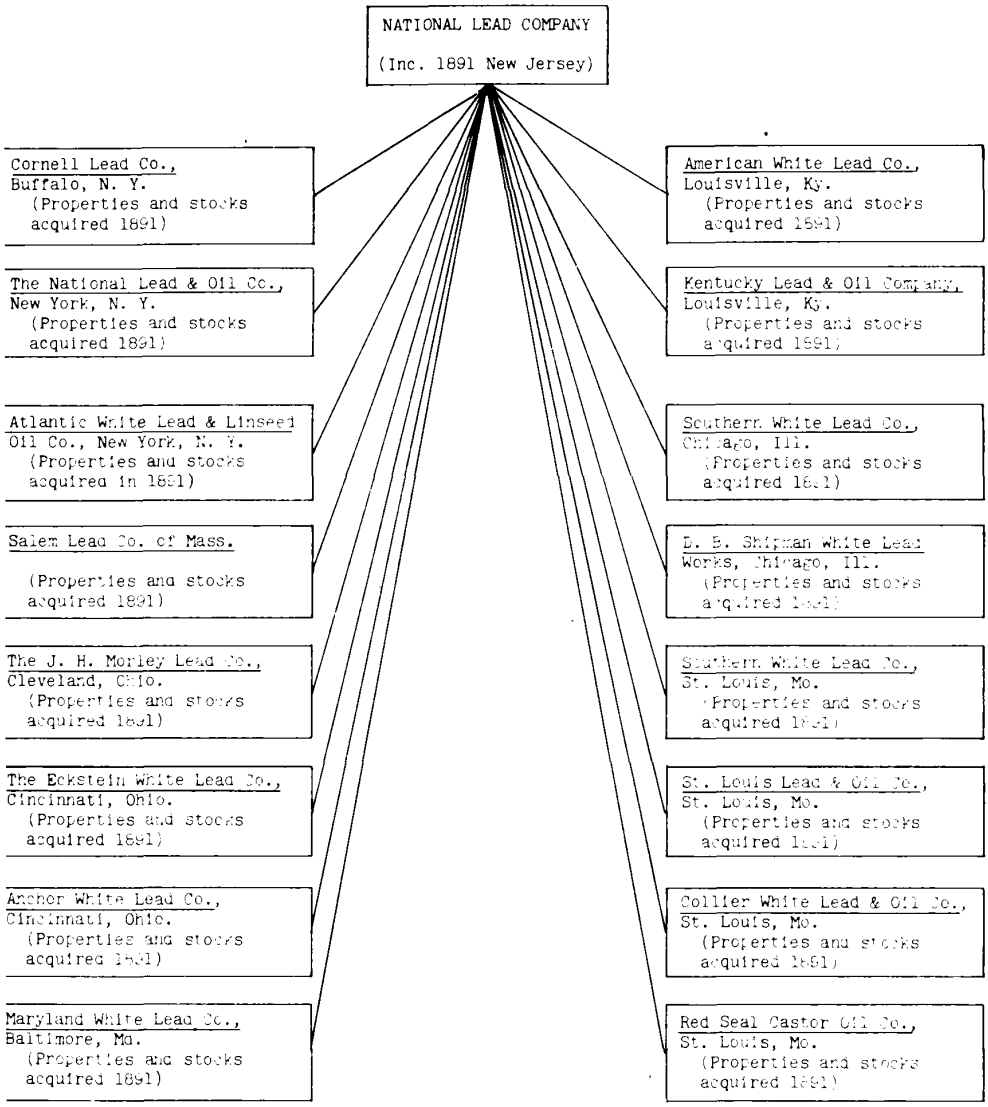
COPPER - LEAD

American Smelting Group



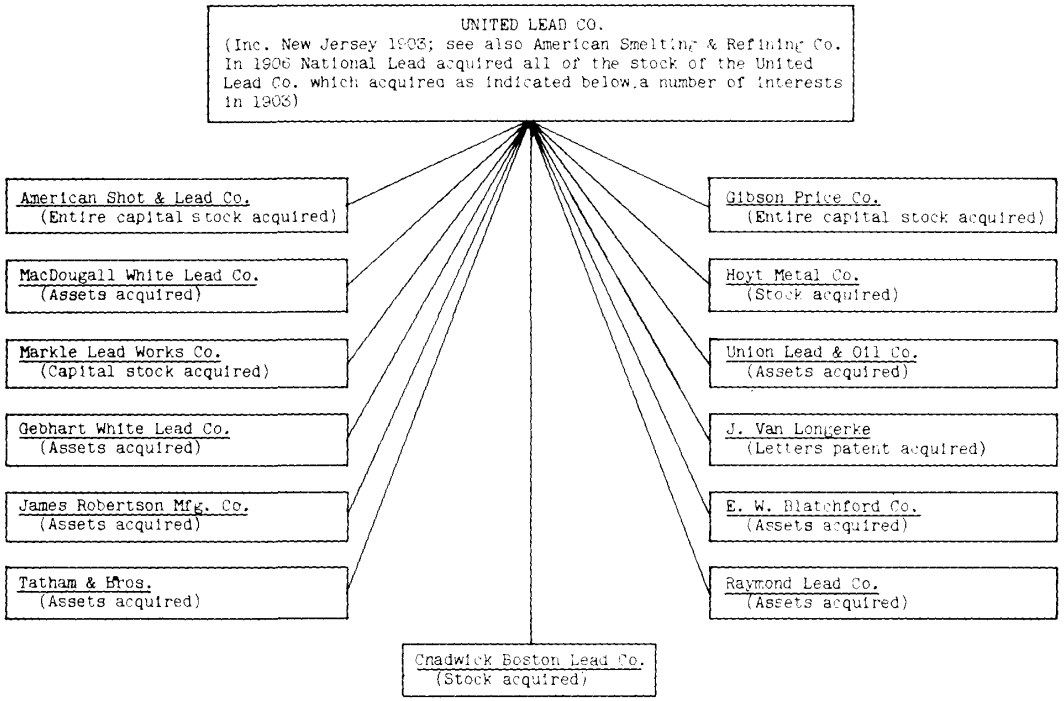
LEAD

National Lead Group

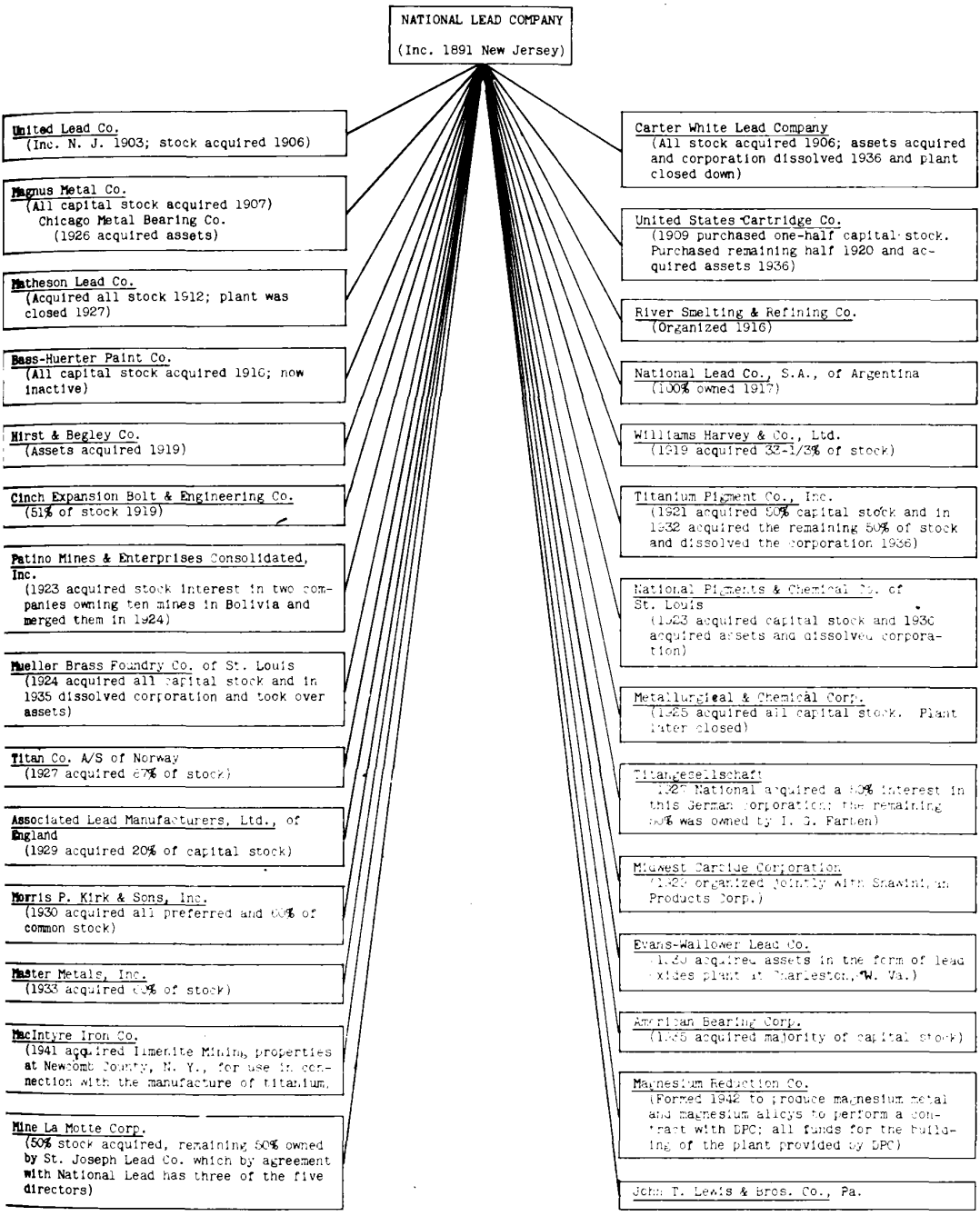


LEAD

National Lead Group



National Lead Group



Puget Sound Reduction Co. (Assets acquired)
Monte Cristo Mining & Concentration Co. (Assets owned)
Tacoma Smelting Co. (Washington corporation; all stock acquired)
Selby Smelting & Lead Co. (All stock acquired)
Guggenheim Exploration Co. (Incorporated in New Jersey 1899; acquired by A. S. & R. Co. as a part of American Smelters Securities Co. 1905)
- Western Mining Co. (Assets either owned or in process of acquisition in 1905)
- Velardena Mining & Smelting Co. (Colorado corporation; 60% of capital stock owned)
- Federal Lead Co. (Delaware corporation; all capital stock owned)
- Silver Lake Mines Co. (Assets owned)
- Matehuala Mining Group (Assets owned)
- Zaragoza Mining Group (Assets owned)
- Veta Grande Mining Group (Assets owned)
- Jiboza Mining Group (Assets owned)
- Santa Barbara Mining Group (Assets owned)
- Mazapil-Bonanza Mining Group (92½ ownership of assets)

Prior to the acquisition of the Guggenheim Company by the Smelters Securities Company, the Guggenheims individually had a large stock interest in the Utah Mine at Garfield, near Salt Lake City, at a cost of nearly $5,000,000, to smelt the ores of the Utah Mine. The Guggenheim Company invested over $1,500,000 in the Utah Mine shortly after the sale of the Guggenheim properties to Smelters Exploration Co. (Smelters Securities Co.). 79/ It has been reported that when American Smelting & Refining Co., in April 1905, acquired a majority of the common stock of the American Smelters Securities Co., the latter owned a controlling interest in not only the Federal Mining & Smelting Co., but also the Utah Copper Co. which operated the Utah Mine. 80/ However, that be as it may, the control of Utah Copper Co., as heretofore outlined in the course of the discussion of the KENNECOTT GROUP, passed from the Guggenheim Exploration Co. to Kennecott Copper Corp. Kennecott secured its first interests therein in 1915, and thereafter added to its holdings until, in 1936, it owned 98.87 percent of the outstanding stock thereof.

Federal Lead Company, a Delaware corporation, which was acquired by American Smelting & Refining Co. through its acquisition of the American Smelters Securities Co. and its subsidiary, Guggenheim Exploration Co., was sold and transferred by American Smelting & Refining Co. to the St. Joseph Lead Co. in 1923 under the terms of a contract whereby two-thirds of the total lead ore output of St. Joseph Lead Co. is to be treated by American Smelting & Refining Co. in its plants for a period of thirty years. 81/ The Federal Lead Company and its properties referred to, consisting of soft lead mines, etc. in Missouri, should not be confused with any of the properties of Federal Mining & Smelting Co., a Delaware corporation, incorporated in 1903. The control of the latter is reported to have been secured by American Smelting & Refining Co. in May 1905, through the acquisition of a majority of the common stock of American Smelters Securities Co., which in turn was said to own a controlling interest in the Federal Mining & Smelting Co. 82/

79/ Ibid., p. 40.
80/ Moody's Manual, 1906, p. 1661.
81/ FTC File 1-7239-1, p. 2; Dkt. 2102-4-1, p. 2. (See also Moody's 1944.)
82/ Moody's, 1906, p. 1661.

Included among the properties, such as physical assets and stock interests in various companies, which were in 1905 owned or subsequently acquired by Federal Mining & Smelting Co. were the following: 83/

Empire State Idaho Mining & Development Co. (Assets acquired 1903)
Standard Mining Co. (Assets acquired 1903)
Mammoth Mines (Assets acquired 1903)
Black Hawk Mine & Development Co., Ltd. (Acquired controlling interests of 99.7% prior to 1920)
Wyoming Mining & Milling Co., Ltd. (Acquired controlling interest of 89.9% prior to 1920)
Government Gulch Development Co. (Acquired interest of 67.7% prior to 1916)
Green-Hill-Cleveland Mining Co., Ltd. (Acquired 67.7% interest prior to 1916)
Dome Mountain Gold Mining Co., Ltd. (Acquired 51% interest prior to 1916)
Fairview Mine Co., Ltd. (Acquired 51% interest prior to 1916)
North Star & Triumph Mining Groups (1916 acquired bond and option to purchase assets. Options later exercised and mines closed)
Independence Mining Group (Prior to 1920, option secured for acquisition of assets. Option was exercised by 1920)
Brewster Mining Group (Assets acquired and operations of property begun about March 1919)
Dobson & Kansouri Mining Groups (Assets acquired and operations begun 1923)
Childress Mining Groups (Assets acquired and operations begun 1924)
Quapaw Corporation (Lease acquired 1925 on considerable mining properties in Oklahoma)
Hidden Treasure Mining Co. (1922 stock owned 56.9%)

The plan for the organization of the Federal Mining & Smelting Co. was originated by a Mr. Charles Sweeny, a large miner in the Coeur d'Alene District in Idaho, who interested Mr. John D. Rockefeller who in turn interested Mr. George Gould, and these three, with others, effected the organization. 84/

The American Smelting & Refining Co. desired a supply of silver-lead (galena) ore from the mines of the Coeur d'Alene District in Idaho for the operation of its smelters in Colorado. It was valuable for admixture as a flux with the silver- and gold-bearing ores from the Colorado Mines, because the latter contained little or no lead which in the process of smelting acts as a collector of silver and gold. It was also of great intrinsic value, and the Smelting Company's successful efforts in procuring it resulted in a wide and very profitable extension of the company's lead smelting business. The latter is reflected in the great quantities purchased, even before the Federal Company was acquired by the American Smelting & Refining Co. The purchases were made pursuant to the terms of a contract for the entire ore production of the Federal Company for a period of six years to expire 1909. 85/ Not even the total output of the Federal Company thus contracted for was sufficient to meet the Smelting Company's desires. It made large additional purchases from other Coeur d'Alene Mines, such

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83/ Ibid., 1920, p. 2553; 1933, p. 584; and 1944, p. 1603, and Record of TNEC Hearings, Part 25, p. 13388.
84/ Report to the Stockholders of American Smelting & Refining Co. as made by the Stockholders' Committee of Investigation, 5/10/22, p. 9.
85/ Ibid., pp. 8-10.

as Hercules, besides contracting in 1905 for the total production of the Bunker Hill & Sullivan Company for a period of 25 years. The latter was the largest and most important Coeur d'Alene producer after the Federal Company. 86/

In connection with the making of the contract for the total production of the Bunker Hill & Sullivan Company, the Smelting Company purchased the Tacoma Plant at Tacoma, Washington, a lead and copper smelter and copper refinery of which the Bunker Hill Company was the largest owner. It also purchased the Selby Plant near San Francisco, a lead smelter, lead, gold and silver refinery and manufactory of lead products to which the Bunker Hill Company supplied ores under contract. 87/

The Federal Mining & Smelting Company began operations as a mining company, for after having sold its entire ore production for six years, as above outlined, it had none left which it might itself smelt or refine. 88/ The 6-year contract which had thus been entered into by the Federal was superseded in 1905 by a new contract whereby it agreed to sell the American Smelting & Refining Co. its total production for 25 years, ending in 1930. 89/ Although the Federal Company thereafter expanded its capitalization, the American Smelting & Refining Co. in 1905, and thereafter, continued to purchase a stock interest in that company sufficient to retain its majority or stock-controlling interest.

In addition to the acquisitions of assets and stocks of other companies acquired by American Smelting & Refining Co., as have already been discussed, prior to 1905 it also acquired a controlling stock interest in the United States Zinc Co., 90/ in Baltimore Copper Smelting & Rolling Company in 1911; and in numerous other instances, as is indicated by the charts, pages 31 to 36, inclusive. 91/ Many of the mining interests thus acquired, as indicated by the names shown on the charts, are located in Mexico and in South America.

In referring to the charts, the listing there of the United Lead Company should also be noted. It was formed in 1903 as a New Jersey corporation through a consolidation of 13 independent producers of lead and lead products, many of which were concerned with fabricating and in manufacturing white lead and other lead products. The organization of the United Lead Company was promoted by Grant Hugh Browne, who was said to have been associated with Thomas F. Ryan in that organization. Thomas F. Ryan, had heavily invested in the Union Lead & Oil Company which was one of the companies absorbed in the formation of the United Lead Company. After the United Lead Company was incorporated under the laws of New Jersey, in 1903, the American Smelting & Refining Co. purchased a substantial number of shares of its voting stock in addition to the interests held therein by Daniel Guggenheim (one of the principal owners and directors of American Smelting & Refining Co.), who also associated with Browne & Ryan in the formation of the United Lead Company. It was reported, in 1904, that the American Smelting & Refining Co. was closely allied with the interests which controlled the United Lead Company. 92/ It was also reported that a movement was on foot in December 1902 to consolidate not only the Union Lead & Oil Co. properties with the other properties which were absorbed into the corporation

86/ Ibid., p. 8.
87/ Ibid., p. 8.
88/ Ibid., p. 12.
89/ Ibid., p. 12.
90/ Moody's, 1906.
91/ Moody's, 1944.
92/ Moody's, (Report on American Smelting & Refining Co.), 1904 Edition, p. 1260.

known as the United Lead Company, but to also include in such consolidation all of the properties of the National Lead Company and the American Linseed Company. 93/ It appears that probably some progress was made in the negotiations toward that end because it was also reported that the American Smelting & Refining Co. had become closely allied with the interests which controlled the American Linseed Company, known as the Linseed Oil Trust, the National Lead Company, known as the Lead Trust, and the United Lead Company, as formed in 1903, and that all of those combines were operating in harmony. 94/ It is apparent that the interests of these lead producers and fabricators in the linseed industry arose from the fact that linseed oil when mixed with white lead produces white lead paint. The American Linseed Company by that time, that is, 1903, had absorbed not only the National Linseed Oil Company, with all of its numerous assets and stock controls over producing units, but continued its acquisitions until the properties it controlled represented about 85 percent of the linseed oil production in the United States. 95/ For a list of the many properties thus absorbed into the American Linseed Company combine, see Moody's Manual for 1904, p. 1262.

The stock interests which had been acquired by the American Smelting & Refining Co. in the United Lead Co. were transferred to the National Lead Company through the period of 1906-1908. However, during that period of time several members of the board of directors of the American Smelting & Refining Co. were also members of the board of directors of the National Lead Co., including Daniel Guggenheim.

The National Lead Company, as is shown by charts, pages 37 to 39, inclusive, was formed in 1891 as a New Jersey corporation to take over the properties and stocks of 17 companies which had theretofore formed the National Lead Trust. 96/ Many of those companies, which were thus absorbed into the National Lead Company's structure, were fabricators of lead products including white lead for manufacture of white lead paint. Through those and subsequent acquisitions the National Lead Company has attained the foremost position in the white lead industry, with its production far outstripping the production of all other producers put together. Statistics prepared by the Lead Industries Association show that the production of white lead by the National Lead Company and the Eagle-Picher Lead Company accounts for approximately two-thirds of all the white lead produced in the United States. 97/

As of January 1, 1944, American Smelting & Refining Co. and a subsidiary controlled 38.78 percent of the voting stock of General Cable Corporation which was incorporated in New Jersey in 1902 as the Safety Insulated Wire & Cable Co., a successor to Safety Insulated Wire & Cable Co., a New York corporation, the name of which was changed to Safety Cable Co. in 1925, and to General Cable Corporation in 1927. 98/ General Cable Corp. is engaged as a fabricator and manufacturer of electric wire and other copper products. American Smelting & Refining Co. acquired a considerable volume of the bonds of the General Cable Corp. outstanding in 1927, in exchange for the Rod and Sheet Mills of the American Smelting & Refining Co. at Baltimore. Thereafter, it also

93/ Ibid., (Report on National Lead Company), 1904 Edition, p. 1260.
94/ Ibid., (Report on American Smelting & Refining Co.), 1904 Edition, p. 1260.
95/ Ibid., Industrials, 1904, p. 1262.
96/ Ibid., (Report on National Lead Company), 1900 Edition, p. 427 and 1904 Edition, p. 1262.
97/ FTC Docket 5253.
98/ Moody's 1944, p. 2661; also, p. 540.

acquired stock in the General Cable Corp. However, the General Cable Corp. disclaims that the American Smelting & Refining Co. holds effective control; but it may be noted that as of December 31, 1943, the latter owned directly or through a wholly-owned subsidiary 28,740 shares, or 19.16%, of the General Cable Corporation's outstanding 7% Preferred, 148,908 shares, or 48.55%, of the outstanding Class A stock, and 260,042 shares, or 38.70% of the company's outstanding Common, constituting in the aggregate 38.78 percent of the total voting stock, and that at the company's annual meetings of stockholders in 1937 to 1943, inclusive, a majority of the shares voted were shares owned directly or indirectly by American Smelting & Refining Co. Of the 14 directors of the Company as of December 31, 1943, one was a director of American Smelting & Refining Co. and six were both directors and officers of that company. 99/

The General Cable Corp. thus under the control of American Smelting & Refining Co. is a large and important fabricator. It and the companies to whose business it succeeded, namely, the Safety Insulated Wire & Cable Co. and Safety Cable Co., acquired the businesses of the following: 100/

Phillips Insulated Wire Co. (Inc. Rhode Island 1892; stock control acquired 1925)
A-A Wire Co. (Inc. New Jersey 1924; a successor to a New York corporation of like name, incorporated in 1912)
American Insulated Wire & Cable Co. (1927 acquired certain assets)
Brenner-Mervis Co. (1927 -- acquired certain assets)
Rome Wire Co. (1927 -- acquired assets)
Standard Underground Cable Co. (1927 acquired assets)
Dudlo Mfg. Corp. (1927 acquired assets)
Detroit Insulated Wire Co. (1928 acquired assets)
Great Lakes Thread and Yarn Co. (1928 acquired assets)
Revere Copper & Brass, Inc. (1928 General Cable Corp. received securities of Revere in exchange for sheet mill at Baltimore)

As is shown by the charts, pages 31 to 36, inclusive, American Smelting & Refining Co. also acquired more than 90 percent of the stock in 1928 in the Michigan Brass & Copper Co., which in turn, with a number of companies, sold their assets to the Republic Brass Corp. which name was later changed to Revere Copper & Brass Inc.

Revere Copper & Brass, Inc., was incorporated in Maryland, in 1928, under the name General Brass Corporation. The name was changed in 1929. It is a fabricator of copper and brass products. American Smelting & Refining Co., as of December 31, 1937, owned 30.31 percent of its Cumulative Preferred, 21.44 percent of its Class A, and 39.04 percent of its Common stock, and in addition General Cable Corp., in which American Smelting & Refining Co. cast a majority of shares voted during the years 1937-1943, inclusive, owned 16.22 percent of Revere's Common and 24.34 percent of Revere's Class A stock. 101/

Revere Copper & Brass, Inc., since the date of its formation in 1928 has acquired the following: 102/

99/ Ibid., p. 2661.
100/ Ibid., p. 2661; Poor's, 1911, p. 1262; and Poor's, 1926, pp. 2628 and 2630.
101/ Record of TNEC Hearings, Jan. 1940, Part 25, p. 13388 footnote 5.
102/ Moody's, 1944, pp. 540 and 2661.

Baltimore Sheet Mill Division of General Cable Corp. (1928 assets acquired)
Taunton-New Bedford Copper Co. (Founded 1831; assets acquired 1928)
Rome Brass & Copper Co. (Founded 1866; assets acquired 1928)
Higgins Brass & Mfg. Co. (Founded 1922; assets acquired 1928)
The Michigan Copper & Brass Co. (1928 acquired from American Smelting & Refining Co.)
Dallas Brass & Copper Co. (1928 stock acquired)
Republic Securities Corp. (Organized 1928; dissolved 1941)
Baltimore Tube Co., Inc. (1935 assets acquired and combined with Baltimore Rolling Mill)

In addition to the vast copper and brass fabricating facilities of the General Cable Corp., Revere Copper & Brass, Inc., and Michigan Brass & Copper Co., over which control has been secured by American Smelting & Refining Co., as heretofore outlined, it also has secured 56.1 percent of the capital stock of Garfield Chemical & Manufacturing Co. 103/

From what has been presented in the way of information concerning acquisitions of assets and stocks by the American Smelting & Refining Co. in not only the copper but also the lead industry, it would appear that the recent history has more than made an understatement of what was said by Mr. S. R. Guggenheim in his speech, in 1921, to the stockholders of American Smelting & Refining Co., when he stated that the 1905 conveyance of the Guggenheim Company to the American Smelting & Refining Co. as a part of the deal which involved the American Smelters Securities Company, in 1905, "launched the Smelting Company for the first time in a large way in the copper industry."104/ That is true because subsequent acquisitions of assets and stocks, as well as contractual control over the production, of what previously had been numerous independent competing concerns have established American Smelting & Refining Co. as the dominant seller of lead in the United States and one of the principal sellers of copper and other nonferrous metals.

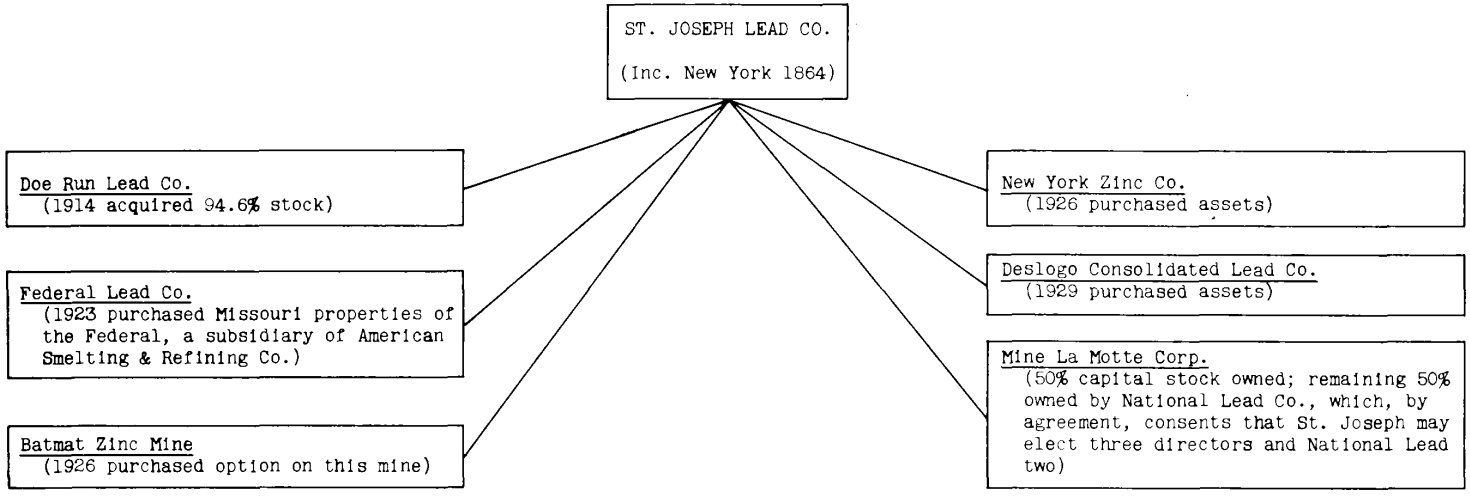
ST. JOSEPH GROUP

St. Joseph Lead Co. was incorporated in New York, in 1864. The company owns directly the mineral rights of more than 6,000 acres of good lead-bearing lands, of which more than 4,000 acres are in the Flat River-Leadwood District, and more than 2,000 acres in the Bonne Terre, Missouri, District. 105/ Through ownership of the properties it originally owned, as well as those acquired since its formation, it is one of the foremost producers of lead in the United States. For a list of the properties it has acquired since its formation, see chart on page 46. Through ownership of the properties acquired from Doe Run Lead Co. it also owns mineral rights on more than 7,000 acres in the Flat River-Leadwood and Doe Run Districts, Missouri. It owns and operates in St. Francois County, Missouri, three concentration mills having a daily capacity of 6,000 tons. At Herculaneum it operates a smelter with a capacity of more than 120,000 tons of pig lead annually. 106/

103/ Record of TNEC Hearings, Jan. 1940, Part 25, p. 13387.
104/ Report to the Stockholders of American Smelting & Refining Co., as made by Stockholders' Committee of Investigation, 5/10/22, p. 29.
105/ Moody's, 1920, p. 1522.
106/ Ibid., 1920, pp. 1532 and 1933.

LEAD

St. Joseph Group



It also owns practically all of the outstanding stock of the Bonne Terre Farming & Cattle Co. The latter owns in fee simple the surface rights of about 35,000 acres of land in St. Francois, Jefferson and Washington Counties, Missouri, the mineral rights of which are owned by St. Joseph Lead Co. 107/

In addition to the properties already referred to, St. Joseph Lead Co. in 1926 purchased property in St. Lawrence County, New York, which had been owned by the New York Zinc Co. and an option on the undeveloped Balmat Zinc Mine for $1,500,000; and in 1929 it purchased the Missouri properties of the Deslogo Consolidated Lead Co. for $10,000,000. The company also owns 50 percent of capital stock of Mine La Motte Corp., the remaining 50% being owned by the National Lead Company. By mutual consent St. Joseph Lead Company is represented on the directorate by three members and the National Lead Company by two. Mine La Motte Corp. owns lead mines and a thousand-ton concentration mill in Missouri. 108/

BUNKER HILL GROUP

Bunker Hill & Sullivan Mining & Concentrating Co. was incorporated in Delaware, in 1924, as a successor to an Oregon corporation of the same name which was incorporated in 1885. The company produces principally lead, also zinc, silver and other nonferrous metals. Its properties include about 3,000 acres located at Kellogg, Idaho. It has a modern lead-silver smelting plant in which is treated the company's own ores, as well as custom ores from local and outside sources. 109/

As of December 31, 1941, the Company owned 100 percent interest in Wood River District, Idaho, Mines and Ajax Mines, Lalande District, Burke, Idaho. It also owned a 75 percent interest in the McNally Group Mines, Orient District, Washington. In addition, it owned 50 percent stock interest in Sullivan Mining Company (the other 50 percent interest was owned by Heckla Mining Company), 96.07 percent stock interest in North American Mining & Smelting Co., and a 92 percent stock interest in Northwest Lead Co., Seattle, Washington. During that year, it also disposed of its 32.5 percent interest in the Treadwell Yukon Corp., Ltd. 110/

There is little information available concerning the time, manner or significance of the acquisitions of these various interests as made by the Bunker Hill Company. However, it is repeated that if the provisions of the pending S. 615 and H. R. 2357 had been law, the Bunker Hill Company would have been required to have informed the Federal Trade Commission concerning the acquisitions it has made before they were consummated.

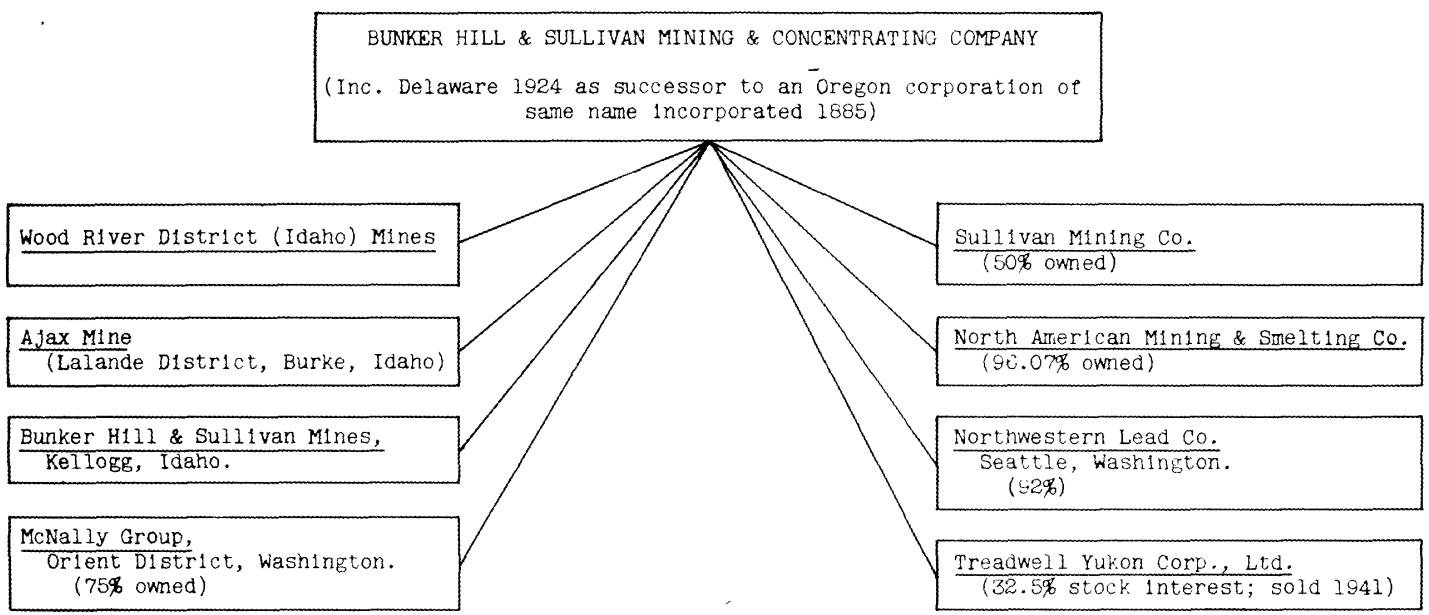
CONCLUSION

What part of the copper and lead industries remains independent? What exists in the industries over which the above mentioned combines have not acquired some measure of control or influence as the above outlined consolidations, mergers and acquisitions progressed and were consummated?

107/ Ibid., 1920, p. 1532.
108/ Ibid., 1944.
109/ Ibid., p. 740.
110/ Ibid., p. 740.

LEAD

Bunker Hill Group



Graph, page 4, shows that as of 1937 approximately 80 percent of the copper production in the United States was concentrated in three companies -- Anaconda, Kennecott and Phelps Dodge. Graph, page 6, shows that as of 1941 almost 90 percent of lead sold in the United States was accounted for by the sales of four companies, namely, American Smelting, St. Joseph, Bunker Hill and Anaconda (International Smelting & Refining).

Concentration, as has been outlined, did not stop with the production of raw copper and lead but was enhanced through acquisition of assets and stocks all the way through to the end point, namely, fabrication of copper and lead into finished products. According to the Wall Street Journal of November 29, 1928, the complete integration of the copper industry was then well on the way to completion. An article appearing therein on that subject stated:

> "The moves under way, which it is fairly certain will be carried ultimately to fruition, will divide the copper and brass fabricating into three major units. Anaconda will control roughly 42% of the brass capacity of the country and over 40% of the wire capacity, through American Brass and the Great Falls wire and rod mill. Calling General Cable and the consolidation of brass and sheet companies American Smelting affiliations, American Smelting will control about 25% of the wire and around 20% of the brass capacity of the country, and Phelps-Dodge and its affiliated companies will probably control 18% to 20% of the wire and 8% of the brass capacity.
>
> INTERNATIONAL STATISTICS NEXT
>
> "With formation of these new fabricating subsidiary or affiliated corporations, integration of the copper industry of the United States, after consummation of the merger of southwest copper mining companies will be about completed.
>
> "Formation of these fabricating subsidiaries will help greatly in giving the copper producing companies the link with ultimate consumption that they need for keeping production and consumption in touch with one another, and is most promising as to the producers being able ultimately to stabilize the copper industry of the world through balancing production with consumption."

It is noted that those figures do not include the portion of the industry held by Kennecott nor some portions acquired by Anaconda's subsidiaries, American Brass Co. and Anaconda Wire & Cable Co., nor some parts acquired by American Smelting & Refining Co. through its subsidiaries General Cable Corp. and Revere Copper & Brass, Inc., nor the parts acquired by Phelps Dodge and its subsidiaries, since 1928. Therefore, it appears that Mr. Kelley, president of Anaconda, was quite conservative when he testified in 1940 on that point, as follows:

> "MR. SCOLL. Perhaps I shouldn't ask you this question, but do you have any idea how much of the fabricating capacity of the United States is owned by producing companies?
>
> "MR. KELLEY. I should say approximately 75 percent of the primary fabricating capacity." 111/

111/ Record of TNEC Hearings, Jan. 1940, Part 25, p. 13099.

Has the very fact that so many independents have been absorbed into so few combines of economic power and control made it easier for such combines to cooperate for their common good, whether or not the same coincided with the public good? Writers of economic literature in analytical articles on the copper industry appear to think so. 112/ What is considered to be to the best interests and the common good of these large companies? A director of one large company (whose acquisitions have been discussed herein) in speaking of copper, stated:

"Now, our interest lies in maintaining a price level as high as we can and still sell at it." 113/

Information at hand is to the effect that the opportunity to cooperate (that fewness in numbers affords) has been grasped by the small number of combines that now, for the most part, constitute the copper industry in the United States.

The New York Journal of Commerce of September 19, 1928, carried an editorial entitled "The Price of Copper," from which the following paragraphs are quoted:

"That the latest rise in the copper price was the result of price fixing on the part of both trade associations is evident for several reasons. In the first place there was much opposition among several producers toward this rise. However, the majority members of these copper trade associations won, the majority being determined by the amount of copper controlled. Following this decision of the trade associations those opposed to the advance fell into line. Today all producers are quoting the new price of 15¢ per pound.

"Were not some organized body of producing companies behind this movement price movements would be irregular, a rise of 1/8¢ per pound here and there taking place, with no clean-cut advance of 1/4¢ in a day such as took place last Saturday. For instance, some producers might be selling at 15¢, while others were at 14-3/4¢ or 14-7/8¢. Moreover, were it not for this price-fixing agreement of the copper producers those who were opposed to the recent rise would still be selling at the old price.

"In fact it has been the open hostility among producers themselves which has most betrayed the price-setting machine in copper. One of the leading producers in favor of the rise and whose influence brought about the action of Saturday has a three-fold interest in higher copper prices: First, to realize higher returns on refined metal sold as such; second, to get better quotations on the copper and brass fabricated products of its subsidiary company; third to increase the price of its shares on the New York Exchange, in which it is said to be more interested than is the average company in its stock value."

Who would deny that a situation as thus described, as well as other agreements of which we are better informed, have been facilitated as a result of the wholesale liquidation and elimination of independent concerns through acquisitions of assets and stocks by the present large combines as heretofore outlined? Who would deny that the purposes, effects and results of such acquisitions have been essentially the same as the agreements effected by the leaders of such combines as the

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112/ Walters, Adelaide, Southern Economic Journal, Oct. 1944, p. 139; Notman, Arthur, Record of Hearings before TNEC, Jan. 1940, Part 25, p. 13548.

113/ Record of Hearings before TNEC, Jan. 1940, Part 25, p. 13268.

Anaconda Group, Kennecott Group, and so forth? One of the principal acquisitions by the American Smelting & Refining Co. admittedly took place in large part to effect "the removal of the principal competitor of the Smelting Company." 114/ For the purpose of refreshing the minds of the members of the Committee, further reference is here made to some of the agreements among the leaders of such combines, the admitted purpose of which have been to curtail competition and the effects thereof.

In November 1930, the membership of the Copper Institute, comprised for the most part of the large combines and their subsidiaries, effected an agreement to curtail production. A report concerning that agreement as made by a special agent of the Department of Justice, who investigated the matter, is quoted in part as follows:

> " * * Mr. Brownell /president of the Copper Institute and chairman of the board of directors of the American Smelting & Refining Co./ stated that the present plan for curtailing production grew out of a meeting of the Copper Institute held Monday, Nov. 3, 1930, at 2:30 P.M. in Room C. of the Midday Club, 25 Broad St. This meeting was a regular meeting of the Copper Institute * * *.
>
> * * * *
>
> "Mr. Brownell stated that the Katanga Mines in So. Africa are owned and operated by the Belgian government, and that F. Pisart and C. Gutt make about two trips a year to the United States in the interest of the Katanga Mines; that while in New York they make their headquarters at the American Metals Corporation, 25 Broadway, in which concern they are also interested. Both Mr. Pisart and Mr. Gutt happened to be in New York at the time the meeting was held in the Midday Club, and they were invited to attend, * * *.
>
> * * * *
>
> "It is believed that the copper industry at large will be greatly benefited and the smelters and refineries saved very large losses if the quantity of copper purchased on a daily quotation basis be limited to the class of copper with which it originated; * * *.
>
> "Be it, therefore, resolved by the Copper Institute that smelting and refining companies be, and they are hereby, asked, for the good of the industry at large, to agree each with the other, not to enter into any new contracts under which any smelting or refining company obligates itself to buy the copper, * * * for refining, by paying for the same on a daily quotation basis, * * *.
>
> "Be it further resolved that the said smelting and refining companies endeavor to unite in buying copper tonnages * * *.
>
> * * * *
>
> "The next meeting was held Thursday, November 6th, 1930, at 10:00 A.M., in Room 1938, at the Biltmore Hotel, Madison Avenue & 43rd St. * * *.
>
> "At this meeting the resolution proposed at the meeting held at the Midday Club and more fully set forth above was adopted and regularly entered upon the records of the Copper Institute. * * *.

114/ Report to the Stockholders of the American Smelting & Refining Co. by Stockholders' Committee of Investigation, 5/10/22, p. 5.

"The nest meeting of all producers held for the purpose of discussing curtailment of production, and which was in no sense an Institute meeting, was held Tuesday, November 11, 1930 at the Board Room of the American Smelting & Refining Co., 120 Broadway New York City. * * *

* * * *

"* * At this final meeting, the producers present agreed that a curtailment of production was necessary to save the industry from further distress. * * *

"Everyone present understood that this proposed agreement is purely voluntary on the part of all producers and is for the best interest of the industry. After this agreement had been reached, Mr. F. H. Brownell, Mr. C. F. Kelley, and Mr. L. Vogelstein were appointed as a committee to release a notice to the press concerning the action taken as a result of the conference. * * " 115/

That agreement was followed by an agreement of the industry represented by the provisions included in the Copper Industry Code for allocations of quotas to each of the producers. 116/

Before the date of the Schechter decision in May 1935, outlawing NRA Codes, representatives of subsidiaries of Anaconda and Kennecott (the two companies accounting for almost 60 percent of the copper production in the United States) on March 28, 1935, entered into an international cartel agreement with representatives of Katanga, Mufulira, Rhokana and Roan Antelope interests. 117/ The cartel structure was a voluntary alliance of five groups who were parties to the written agreement. It is also reported 118/ that linked to those parties were the non-voting groups and by cooperation included friendly outsiders who were not an integral part of the cartel, but were bound to it by the tenuous threads of tacit or oral understandings.

Mr. Stannard, of Kennecott Copper Corp., in his testimony before the TNEC (p. 13232), emphasized that there were really only five groups involved in the agreement. It appears that those were grouped according to corporate and intercorporate connections with the three foreign subsidiaries of the Anaconda Company united in one group with one production quota, Braden (Chilean subsidiary of Kennecott) with one production quota, and the other three groups lined up as follows: The three Northern Rhodesian companies, namely, Rhokana Corporation, Mufulira Copper Company, and Roan Antelope Copper Mines are commonly referred to as the "Rhodesian group"--not only because there is a proximity of interests and locality, but also because they have close interlocking financial arrangements. Roan Antelope and Mufulira, indeed, have practically the same management. Each of the three Rhodesians was allotted an independent quota, but for all other purposes such as voting and committee representation, Roan and Mufulira were grouped together. Thus, we see the five full members of the cartel were:

1. Rhokana Corporation (British)
2. Mufulira Copper Mines, Ltd. and Roan Antelope Copper Mines, Ltd. (British)

115/ Report of Special Agent W. C. Gorsuch, New York City, 11/17/30, as appearing in Records of Hearings before TNEC, January 1940, Part 25, pp. 13467-13472.
116/ Ibid., p. 13570.
117/ Ibid., p. 13528. See also, page 13232.
118/ Southern Economic Journal, October 1944, p. 137.

3. Union Miniere du Haut Katanga (Belgian)
4. Braden Copper Company -- Chilean subsidiary of Kennecott Copper Company (United States)
5. Chile Exploration Company, Andes Copper Mining Company, Greene Cananea Copper Company--the first two located in Chile, the third in Mexico and all three subsidiaries of Anaconda Copper Mines (United States).

According to the testimony given at the TNEC hearings, Mr. Arthur D. Storke, managing director of Roan Antelope and Mufulira Copper Mines in Rhodesia, telephoned Mr. E. T. Stannard, president of Kennecott Copper Corporation (and its Chilean subsidiary, Braden Copper Co.) to invite him and Mr. Kelley, president of Anaconda Copper Mining Co., with subsidiaries in Chile and Mexico, to discuss the matter of agreements concerning the copper market. Mr. Stannard suggested that the Rhodesian Group producers first make an agreement among themselves, "then compose their differences" with the Katanga, the Belgian Congo concern. Thereafter, in February 1935, Mr. Storke again telephoned to say that he and the other mentioned parties had solved their major difficulties and were ready to confer with the New York copper producers. The meetings in New York followed, were harmonious and culminated in the aforesaid agreement of March 28, 1935. 119/

Although the terms of that agreement supposedly limited it to an agreement on production outside of the United States, let us on that point refer to the admission which was made by Mr. Kelley, of Anaconda, in the course of his testimony before TNEC:

> "The Chairman. I am not even implying that so far as the domestic market was concerned there was any intention to violate the Sherman Act or the Clayton Act or to do any of the things prohibited so far as operations in the United States are concerned; but I should like to have your opinion as to whether or not an export organization of this kind can operate to fix prices in the world market without at the same time affecting the prices in the domestic market.
>
> "Mr. Kelley. I don't think it could." 120/

If such cooperation among the few remaining supposedly independent producers of copper in the world is to be taken as evidence of an effective working combination, then what is its legal and economic status and significance, promoted and furthered to the extent outlined by mergers, consolidations and acquisitions of assets and stock controls? For an answer to that question let us turn to the opinion rendered on March 12, 1945, by Chief Justice Learned Hand in the case of United States vs. Aluminum Co. of America, et al. (That case was referred to the United States Circuit Court of Appeals, Second Circuit, for decision in lieu of a decision by the United States Supreme Court, pursuant to the provisions of the 1944 amendment to Section 29, of Title 15, United States Code.) 121/ There he stated:

> "If it /Aluminum Co. of America/ had been a combination of existing smelters which united the whole industry and controlled the production of all Aluminum ingot, it would certainly have monopolized the market. * * * the origin of a monopoly may be critical in determining its legality; * * *" (p. A 1678).

119/ Record of Hearings before TNEC, January 1940, Part 25, pp. 13230-13231.
120/ Ibid., p. 13158.
121/ Unreported in Case Reports as of Apr. 20, 1945, but was printed in Congressional Record, March 28, 1945, pp. A1675 to A1686.

Then Justice Hand outlined the exception in the law concerning monopoly power thrust upon one through involuntary elimination of competitors by automatically operative economic forces when he said:

> "The only question is whether it falls within the exception established in favor of those who do not seek, but cannot avoid, the control of a market. * * * Nothing compelled it /Alcoa/ to keep doubling and redoubling its capacity * * *. It insists that it never excluded competitors; but we can think of no more effective exclusion than progressively to embrace each new opportunity as it opened, and to face every newcomer with new capacity already geared into a great organization, having the advantage of experience, trade connections and the elite of personnel. * * *" (p. A 1679)

Respectfully submitted,

Everette MacIntyre,
Attorney,
Federal Trade Commission.

April 18, 1945.

Hunt, march 29 97

Silverton Standard

VOLUME IX | SILVERTON, COLORADO, MAY 14, 1898. | NUMBER 26

THE MINES.

Gold, Lead, Copper and Silver.

Through a letter by Sheriff Rogers from Geo. J. Ermlich, assayer and chemist of Durango, we glean that the expert to whom the samples of ore from the Idaho mine were recently sent, is well pleased with the character thereof and will make a personal inspection of the property in a few days and has wired Mr. Ermlich to have the tunnels put in shape at once in the furtherance of that object. Sheriff Rogers sent Mr. Angove to the mine yesterday to clean out the small quantity of rubbish that has accumulated in the tunnels. Mr. Ermlich is quite confident that the Idaho will be running under full blast before fall. Speaking of the ore bodies of the Idaho, they are simply great and the people of Silverton will rejoice through the knowledge that a substantial company is about to operate that valuable property.

In sinking a shaft on the Gold Crown mine, a property of Geo. C. Franklin's and which is in the vicinity of the famous Gold King, at a depth of 50 feet the vein was cut which brought to view a magnificent streak of ore which carries 1½ oz. gold per ton and some silver. Aside from the Gold Crown proper there are three other veins, that constitute a group and thus far the only development work done beside the above mentioned shaft, is a 350-foot tunnel which throughout the entire distance contains an iron ore that averages per ton from $5 to $9 in gold. The plan for the future working of this property is to continue the tunnel to a point near where the shaft will intersect, which will require in the neighborhood of 200 feet more work. For this information we are indebted to C. H. Miller, who, with Lou Stanley, has been working on the property.

Bear Creek camp will be a steady shipper this coming summer. Although James Collins, the great mogul of the Gold Syndicate Mining company, is quite reticent in announcing that the big tunnel driven under his direction is in bonanza, yet, such is the fact, all the same. Collins was always noted for good judgment as well as modesty and the stride that Bear Creek will take this summer as a a producer of rich mineral may be attributed mostly to his untiring efforts.

The Good Hope-Wonder leasing people, Mr. C. H. Henning, manager, are sacking ore that runs up into the hundreds. The STANDARD mentioned the new find in that property last winter.

Free Thoman is expected in about the first of June to commence work on the Bonita. This mine last season was a producer of rich ore, which, although the quantity was not great, paid all expenses of working and yielded a handsome profit to the Golden Shear Mining company.

Operations will be commenced on the Little Giant and also Sylvanite properties about the middle of June.

The horizon of Ice Lake basin in visibly brightening. James Carroll, assayer and metallurgist for the Golden Horn Mining and Milling company, of that section, is is town and informs us that the Golden Horn properties will be started up in a week or two. The cyanide process will be used in connection with amalgamation at the mill—as we understand it, the tailings will be leached. Considerable difficulty was experienced at the mill last season, as a high per cent of the gold did not amalgamate but ran over the plates into the tailings. It is expected that by the combination of amalgamation and leaching, at least 98 per cent of both gold and silver values in the ores can be saved.

Good prospects up there in the Cascades. Mr. H. C. Moore, who owns the Thunder Bay group, consisting of several claims, rises to remark, that he is developing the properties by a crosscut tunnel, which is now in eighty feet with about 400 feet more to drive. There has been a lot of work done on the group—principally surface work—and from one of the claims tellurium has been taken that assayed well up in the thousands. Mr. Moore is confident that his properties will pan out big and we hope so, too.

The tramway of the Pride of the West is now about completed and we understand that Manager Gibbons will increase his working force and start in mining in good earnest next week. Big bodies of ore are in sight and it is estimated that the output from the property will not fall short of 20 tons daily. The first-class mineral will be shipped to Denver and that which would not yield a profit otherwise will be treated at the Howardsville concentrating mill.

The old time Aspen, which is being worked by leasers, is outputting six to eight carloads of excellent pay mineral per month. Teamster McDermot has the contract for hauling from the mine to the railroad. The ore is treated at the Durango smelters.

Ed. Rogers & Co. are building a cabin on their property at Stony gulch. Their claim is said to be a promising one, the development consisting of a 70-foot tunnel, the breast of which shows some good ore.

Brice Patterson, whose pack train of 40 head of burros recently came in from over the range, has already taken several contracts for the transportation of mining supplies and ores. Brice will start in on a carload of "Jess" ore, owned by Santo Donati and two or three carloads of lead from the Enterprise mine of Jack Gray's.

Jack Brown informs us that he is making good progress on the Temptation tunnel and forecasts a very successful season for that property. Considerable ore of excellent quality is being broken.

The Green Ribbon and another claim on Kendall mountain and owned by John Lonergan, are being worked by leasers. The claims are producers of medium grade ores.

Geo. Seeger has four carloads of magnificent ore at the Lady Ellen, of South Mineral creek, awaiting the incoming of a pack-train.

OFFICER'S RANK.

As there has been much inquiry and discussion of late in regard to the rank of Miles, the commanding general of the United States army, therefore we publish the following clipping from the Salt Lake Tribune:

"The highest regular rank in the army is Major-General. The promotion to either of the two higher offices—Lieutenant-General or General—has in each case to follow a special act of Congress. Washington was a Lieutenant-General. Scott was Brevet Lieutenant-General. Grant was the third one to receive the honor. When his great services culminated, Congress created first the office of Lieutenant-General, then the office of General, and gave both to Grant in their order, making Sherman Lieutenant-General when Grant was made General. When Grant was inaugurated President he resigned as General, and his first official act was to ask Congress to make Sherman General and Sheridan Lieutenant-General, and the office of General lapsed with Sherman. After Sherman's death and when Sheridan was dying, Congress passed a statute empowering the President to nominate a General of the army, and President Cleveland at once named Sheridan. The office died with him. Schofield was made Lieutenant-General in the year before he was retired.

WAR REVENUE.

Our war with Spain makes the raising of a great revenue on the part of the United States imperative.

Shall this revenue be secured by taxing the necessaries of life? That has been the policy of the government in the past. Is it to be the policy in the future? Great as has been the burden of taxation, the prospect is that it will of necessity become much greater. Congress should endeavor to discover some method of securing revenue that shall not tax to the last degree of endurance the necessities of life.

In regard to methods of securing funds with which to pay the expenses of the government of England is far more enlightened than the United States.

In contrasting the English and the American method the New York World says: "Note these items in Great Britain's net income from taxation last year:

Inheritance taxes	$75,000,000
Stamps	38,000,000
Income tax	86,000,000

"All of these items—making together more than one-third of the total—come out of superfluity. Further, Great Britain raises in taxes upon imports and in excises—both levied wholly upon luxury or superfluity—no less than $270 000,000. Almost none of her vast revenue came from the consumption of necessaries and comfort."

Now, as the subject of taxation is brought before congress with especial emphasis, there should be made an earnest attempt to prepare an income tax law that will be held constitutional by the supreme court. It is not fair, nor is it wise statesmanship, to tax the consumers of this country and to allow the rich men who enjoy splendid incomes to escape carrying their honest share of the burden.

Those who are able to pay taxes should be required to pay them; those who are least able should not be made to suffer. —Chicago Dispatch.

The San Juan Gold Mining company of Telluride, Colo., has placed an order with the Colorado Iron Works Co. for a 100-ton dry crushing plant.

SPANISH-AMERICAN WAR.

Engravings of American Heroes will be Sent Free.

We have just published the most handsome engravings ever issued of Commodore Dewey who won the great naval battle in the Phillipine Islands, Rear Admiral Sampson who has charge of the fleet of American war ships at Havana, Commodore Schley commander of the Flying Squadron. Captain Sigsbee who was commander of our Battle Ship Maine. And of our brave consul general at Havana who is now Major General Fitzhugh Lee and who will command the volunteer forces that will invade Cuba. To anyone who will send us a list of names of ten patriotic ladies of their neighborhood and six two cent stamps we will send any one of the above large engravings free of charge, or if the entire collection of the five American Heroes if desired send us a list of twenty names of different ladies and twenty two cent stamps and we will send you the five engravings by return mail.

These engravings are the most beautiful ever published and are handsome enough to go into any home. Send us the list of names and stamps to-day as the edition is limited, There is no advertising on any of the engravings. In sending state whose engraving you desire.

Address, Pastelotype Co., 23 Duane Street, New York City.

Wanted—a 15 or 20 horse power portable boiler. Second hand one, cheap. Enquire at this office.

Finest brands of cigars can be had at T. McKinney's. Try them, O, yea smokers.

DID YOU HEAR ABOUT

All the Latest Local News of the Town and County?

Mrs. Mary E. Brink is a member of the school board at Ophir.

Old Sol's rays are now very penetrating and indications point to an early summer.

A bran new delivery wagon is the latest possession of Bert Brown & Co.'s butcher shop.

Mr. and Mrs. W. H. Majors are in clover, implies the Examiner of Telluride. It's a boy.

Dr. Potts now has a neat and convenient "down-town" office on corner Thirteenth and Reese streets.

Billy Rogers the energetic and popular Eureka boniface attended court this week in the capacity of juror.

William Smith brought a lot of pack stock up from Delta Monday. Brice Patterson's burros were included in the band.

The Judson hand drill, which was put through its trial paces on the Red & Bonita mountain property last week, proved to be N. G.

The infant daughter of Mr. and Mrs. Chas. Hale died Wednesday morning. Funeral services were held at the residence of the family at 2 p. m. Thursday.

Chas. Dale will build Pearce & Reynolds' saloon which is to be of Durango brick, one story high and a dandy from the ground up. The work is to be done on contract.

The Salt Lake City papers acknowledge the arrival of the San Juan delegates to the convention of the Western Confederation of the Miners' Union, which was held in that city this week.

James W. Clark, an old time resident of this place who moved his family to Montezuma valley about three years ago is now in the Klondike. Dame Rumor has it that fortune has already smiled on "Jim, lucky Jim."

John Roman threatened to carve John Lorenzon in the saloon of the latter the other day. Roman was arrested and dragged before Police Judge O,Driscoll, who relieved him of $18.75 and admonished him to curb that awful temper of his in the future.

John Miller of Eureka is in receipt of a letter from Silverton's ex-postmaster Dan'l Flisher, which states that he (Dan) has been engaged in speaking throughout the southern states in behalf of the silver cause. His home is in Augusta, Okla.

Peoples Church—Services both morning and evening. Morning subject: "The Church, Its Unity and It's Worship." Evening subject: "Man Created in the Image of God." All are invited to attend all of our services.

WILLIAM I. TAYLOR.

Much needed repairs to the sidewalks, north side of Green, from Eleventh to Fourteenth street, have, for the greater part, been made during the week, the rotton planks and stringers have been ripped up and new ones substituted therefor. Ye gods, but within a few short hours the improvements have been great and may be made greater by countersinking the nails and with the use of an adz level the new boards down to the old.

If a dollar looks like a lion in your advertising pathway, you'll be apt to get scared and turn back.

Salt Lake City must have great charms for our big brother, (blacky) as he is now overdue three days.

"Nemo" again presents the STANDARD with an interesting essay, "Present Day Thoughts," accompanied by a poem, "Old Glory." On back page.

Louis Wymann's pack train, consisting of 136 as fine mules as ever kicked a fly off a "skinner's" ear, came in from Montrose Tuesday, under charge of John Wishart, Mr. Wymann's bookkeeper. We understand that Mr. Wymann has several big packing contracts on hand.

San Juan's first tunnel worthy of note, was that driven in '76 and '77, by the late Thos. P. Higgins and George Ingersoll and was known as the Higgins and Ingersoll tunnel of Hazelton mountain. It was a crosscut of 1,000 feet in length and tapped several veins at a great depth, the most prominent of which, we believe was the Aspen.

Three little boys were recently added to Silverton's future presidents of these United States. The first of these, a very wise looking little chap, made his appearance at the home of Mr. and Mrs. R. J. Ray, Monday, 9th inst., the other little fellows arriving at the homes of Mr. and Mrs. Harry D. Brown and Mr. and Mrs. Wm. Fancher, Tuesday.

Casad's manufacturing establishment whistle sounds like a runaway calliope of late, and has cost this shop the price of having renovated two watches and a clock, believing that the 2x2 whistle regulated the stars of the firmament. We now realize, after inquiry that no regular second or minute, or for that matter, hour is set to alarm the workmen, as "Shorty" pulls the whistle throttle every time he may happen to think about it, any time from 7:00 p. m. to 7:00 p. m.

Old man Day recently had a box of pocket knives purloined from his show case while he was waiting on customers. He is quite positive as to the identity of the thief, who is supposed to be a boy of the town, whose reputation for several years past has not savored of honesty. Several of the knives are in the possesson of several kids about town who wont acknowledge, however, where they got them, being fearful that the knives will be taken from them—a small kid and a big jack knife being one and inseparable. Mr. Day informs us that the loss amounted to about $10.00 and also that he will have the matter investigated.

Connecticut has thrown the married men out of the militia, that they may be kept at home in case the troops are sent to the front. There is such a thing as overkindness and consideration. During the civil war, when a couple of Northern soldiers were sharing a blanket in front of Petersburg they fell into talk and the older man asked the younger: "How did you come to enlist?" "Well," said the other, "I was a young fellow running about. I had no wife and nobody dependent on me and I liked war and so I came along. Why did you come?" "Well," said the elder man, "I was married, and I liked peace, so I enlisted." Better let the militia settle it, each for himself. And if there is to be a vote on it let the wives have a say, too. —Ex.

Bank of Silverton.

(ORGANIZED UNDER THE STATE LAWS.)

Capital Stock Paid in, $30,000.

G. H. STOIBER, President. J. M. GUNDRY, Vice-President.
J. H. ROBIN, Cashier.

Transacts a General Banking Business. Issues Domestic and Foreign Exchange. Acts as Fiduciary Agent for persons or companies having mining interests in the San Juan Mining District.

Correspondence will receive prompt attention.

SILVERTON, COLO.

THE Silverton Tailor

OPPOSITE MEAT AND PRODUCE CO., GREEN ST.

Has just received the largest and most complete stock of the latest cloth and patterns for

SUMMER CLOTHING

—OF—

SCOTCH, ENGLISH, GERMAN, FRENCH, DOMESTIC SUITINGS AND TROUSERINGS

Overcoats

In all shades of Chinchilla, Montagnac, Knickerbocker, Fine Kersey.
Remember I will not be undersold by any Tailor.

Overcoats

City Transfer Co.

D. L. LAMBERT, Man'gr.

Express and Baggage to and From all trains.

HAULING OF ALL KINDS

COAL. COAL. COAL.

Lumber Coal . . .

MOSES LIVERMAN.

Why don't you buy a Hospital Ticket,

Before you go to the hills? Only One Dollar a month.

Born—Thursday, 12th inst., to the wife of Ed. Walters, a daughter.

Nora A. Smith got a divorce from Harry H. Smith, also the care and custody of the little boy, with $20 a month alimony for the support of the child, in the county court, Thursday.

Charlie Abbott, a son of C. L. Abbott, who left here a week ago to enlist for the war in the Rough Rider Cowboy contingent, which was organized at Santa Fe, N. M., was accepted and is now a bold soldier boy, speeding along with his comrades, en route to Havana. We wish the volunteer success and we wish all brave hearts who buckle on the armor of right to do battle for our country and its teachings of humanity, success in a tenfold ratio.

Friday next the Silverton schools will close and allow a much needed play spell for the pupils for the next three months. So far as we can learn, the school are in a heathy condition and during the present term, the "young idea," embraced therein, has taken rapid strides towards advancement. The closing exercises, which will occur in the morning will be followed with an afternoon picnic, to be held at or near Eureka, arrangements having been made with the managment of the Northern branch of the Silverton railroad for transportation. All are invited and will be made welcome.

According to Tulley's war telegrams, the big Spanish liner, captured off Havana a short time since, had on board $40,000,000 in specie. The matter was investigated by the naval department and all the money found on the prize was $1.75, which belonged to the cook—dispatch not confirmed. Since that $40,000,000 news, the Oregon has gone down according to Tulley's dispatches, several times from the effects of a torpedo jabbed under her flank—the boat, however, still floats. It worried the department at Washington when they thought that the big ship had upset the bucket and swallowed its contents. Thursday Tulley received the exciting news that the Vesuvius had exploded and gunboat Tecumseh had sunk to a watery grave. The excitement in Washington is intense. It should be intense everywhere.

The New York Journal of April 30, says that its great offer of $1,000 for the best new war idea, brought forth numerous responses from inventors of death dealing machines. Among the various destructive inventions, many of which are passed lightly over, the Journal dwells at some length, on a gun patented by Alex Klinger of 205 East Fourteenth street, New York city, that will shoot faster and farther and hit harder than any other gun on earth. The invention discharges 2,000 missiles per minute and the speed of its fire is over 3,000 feet per second. The publishers of this paper are quite well acquainted with Mr. Klinger and are posted up to date on the merits of his invention—a small working model of it having been experimented with in this city, in the neighborhood of two years ago—the result of the experiment being highly satisfactory.

Attention is salled to the following article from the Tacoma News, in regard to the excellent Janet Waldorf company, which will show here on the nights of the 30th and 31st inst. As will be observed, the company is a very strong one and comes highly recommended: "The performance of Sheridan Knowles' play, 'The Hunchback,' given last evening by the Janet Waldorf company was well attended and greatly enjoyed. It was an artistic pleasure for both the eye and ear, the piece being well played and beautifully costumed. As Julia, the impetuous, passionate, yet deeply loving. Miss Waldorf showed herself the consummated actress and lovely woman. She was ably supported by William McVey as Master Walter. A charming bit of comedy work was done by Mrs. Currier, as Helen, and Mr. David Murdock, as Modus."

FROM THE BASIN.

Arastra, Colo., May 13. '98.

Snow going very rapidly—everything beginning to look like spring.

Chas. Payne brought up a lot of mules last Tuesday from town. Mr. Payne has a contract to pack 20 tons per day from the Black Diamond to the upper terminal of the Iowa tramway.

H. W. Brown came up Wednesday to do the carpenter wprk on the Iowa.

Jno. W. Luckey came up today with a gang of carpenters to start work on the new Tiger tramway. This tram when completed will be 1600 ft. long.

Wm. Morrison was taken very sick last Tuesday, he had to be assisted to his room by Charlie Thompson. Dr. Thomas Holden was called and said that it was nothing dangerous, only a slight touch of heart failure.

A mass meeting of the citizens of Arastra was held last Wednesday for the purpose of advising the administration as to the best policy to be pursued in the present war. Major Jas. Houck was elected chairman and Jno. Gray secretary. Upon taking the chair Major Houck made a very gory speech denouncing McKinley, which was seconded in a loud voice by the secretary. He called upon every good citizen to take up arms at once in defence of Cuban liberty. "Gi'me war, gi'me blood," he shouted, but at this moment Col. McCartney arose and said that he wished to read a letter from Gen. A. D. McCook calling for volunteers for Cuba and he hoped that they would all enlist. Mr. McCartney proceeded to read the call but when he had finished reading the only persons left of the vast audience were Thos. Holden and Ed. Olsen, even the fiery chairman and secretary had gone, "They had folded their tents like the Arabs and silently stole away."

AMERICUS.

Gentle reader, if you feel tired and out of sorts and dry in the bargaid and require a tonic to put you on your pins seek no further than Patsey Hannigan's cosey little beer and lunch hall; then shout "Eureka." Mr. Hannigan handles four kinds of beer, namely: Anheiser Busch, Budweiser, Zang and Fischer—all bottle goods and suitable to all ages, colors and temperaments. Elegant lunches served to order and a fine stock of cigars constantly on hand.

To Durango and Trimble.

Commencing May 15th, tickets from Silverton to Trimble at $2.00 for round trip will be on sale every Saturday and Sunday, good to return Sunday, Monday or Tuesday.

Tickets to Durango at $2.70, round trip, will be on sale Saturday and Sunday, good to return Sunday or Monday.

Parties of five or more traveling on one ticket to Trimble at $2.00 each, tickets will be good for ten days to return,

W. M. SHOEMAKER,
Agent.

T. McKinney handles all the leading newspapers and periodicals—a most thorough news depot in fact.

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Silverton Mercantile Co.

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Silverton Transfer Co.

Dealers in **San Juan, Hesperus and Porter Coals.**

Finest Livery Turnouts in the City. First-class Saddle Horses a Specialty.
Stock Boarded by the Day, Week or Month.

SILVERTON STANDARD.

KLINGER BROS., PUBLISHERS.

ONE YEAR $2.50.
SIX MONTHS, $1.25
THREE MONTHS, 75C

Entered at the Silverton, Colo. postoffice for transmission through the mails as second class matter.

SATURDAY, MAY 14, 1898.

And now it's Admiral Dewey, with a bran new sword and resolutions of thanks, all in one package from the American congress and all charges prepaid.

An English writer on naval matters says that our battle ships, of the Indiana type, are too heavily gunned and will kick themselves over from the recoil of the discharge of a full broadside. In our opinion it is the Spanish ships that will get upset and it wont be from the recoil of Spanish guns either.

Miss Margaret Astor Chanler, a grand daughter of John Jacob Astor, worth several millions in her own right, will go out to Cuba as a nurse of the Red Cross hospital. This woman, through sacrificing the pleasures and frivolties of a life omong the "400," to minister to the wants of the sick and wounded, is justly entitled to a diadem of greater brilliancy then than that of a conqueror of a dozen worlds.

The Post scores Governor Adams for the abuse of the power vested in him in regard to the appointment of officers for the volunteers now about ready to take the field, the Post claiming, that tried and true officers of the organizations have been flung overboard to give place to men who are totally unfit for the positions to which they are assigned, by reason of their having a political pull. The paper considers the governor's action in the premises, by which he utterly ignores the wishes of the men composing the organizations, as being criminal and indefensible.

While Spain is in a state of revolution and her people frenzied for bread, are rioting the streets of the capitol, the United States is feeding the world, her graineries bursting with breadstuffs. If we were not at war with Spain we would be taking up subscriptions and sending ship loads of flour to her starving poor. We are a great people.—Ex

Yes, and let thousands of our own worthy working people who are out of jobs go hungry at home. This wide-spreading, Christian philanthrophy, reaching across the waters to foreign lands savors strongly of rot. Let us care for our own sufferers first. Let the "graineries, bursting with breadstuffs," be opened for their benefit.

It should not be forgotten, that while our naval heroes are fighting the Spaniards, William Jennings Bryan is also engaged in warfare—bloodless to be sure, and fought from the rostrum—but, not a whit the less noble for that, for it involves the sacred cause of humanity, the restoration of silver to its par value and the ultimate dethronement of the gold-bug power—in this country, at least. Bryan is now speaking in the more prominent cities of the New England states to houses packed with appreciative audiences and is making converts to his belief by tens of thousands.

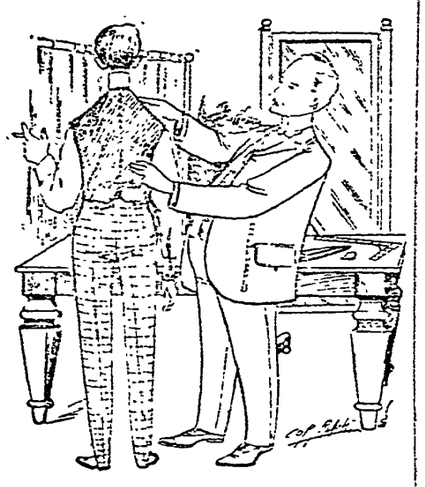
The San Francisco papers are indulging in a few kicks at the way that San Francisco has been treated by the present administration and the one prior, in regard to the gobbling up and transferring of the war ships of the Pacific to the Atlantic and elsewhere, the people claiming the right to a few ships that were built there for the defense of the city of the Golden Gate. To be sure there are lots of big guns mounted in the shore batteries and the monitor of the world, Monterey, frowns seaward upon any tresspassing craft that might venture poking its nose through the gate, yet the people don't feel quite secure from foreign invasion unless they get their own Olympia, Oregon, and San Francisco back again. With these three ships, the Frisco populace rises to remark: "We can defy the world."

Just now our friends across the big waters, namely, England, Russia and Germany are discussing the late naval achievement of Commodore Dewey at Manila. England rejoices in the triumph of our ships and claims that the battle fought and won by our gallant Dewey and his no less gallant crews has never been paralleled in the history of the naval engagements of the world. Russia smiles knowingly and Emperor William with his war maps spread out before him, is lost through admiration of the masterly stroke of the Asiatic squadron. There's an old saying that blood will tell. Dewey was born in Vermont, which, if we mistake not, was also Ethan Allen's native state. Among other Americans there were just a few Irishmen in the fleet who helped point the guns, and judging from the results, they pointed them "straight." The battle was a hot one and it was not discreditable to the Spaniards that they were drowned, as they were out-generaled and out-fought and many of them died with their ships. At the time when the cruiser Olympia and her consorts, under the cover of night, steamed 'round the frowning batteries of Manila harbor, it must have required nerve on the part of Commodore Dewey and the men of his command. There were big guns ranging on them from the shore, a hostile fleet in their front and the waters were strange; perhaps planted with mines; yet, straight onward like swift messengers of fate, sped those noble ships to victory. England has had its Nelsons, America its Farraguts—those were heroes of the past. To-day the world acknowledges another hero, GEORGE DEWEY. America is justly proud and hero worshippers are plentiful the world over.

BE GOOD TO YOURSELF and good to your friends. When you treat a friend to whisky, give him the best. HARPER whisky is the beverage for your friends and for you. Sold by Berquist & Johnson, Silverton, Colo.

The American Navy, Cuba and Hawaii

A portfolio, in ten parts, sixteen views in each part, of the finest half-tone pictures of the American Navy, Cuba and Hawaii has just been published and the Chicago, Milwaukee & St. Paul Railway has made arrangements for a special edition for the benefit of its patrons and will furnish the full set one hundred and sixty pictures, for one dollar. In view of the present excitement regarding Cuba these pictures are very timely. Send amount with full address to Geo. H. Heafford, General Passenger Agent C..M. & St. P. Ry., Chicago. 21-3t.



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is one of the functions of the tailor. By his art he makes up for deficiency of shoulder, chest, etc.

It is our business to do that and more. We not only make perfect fitting garments which set off a good figure and improve a poor one, but we put material in our suits which some tailors would not think of selling at less than double our prices.

Will make a suit to your order from $13 up—fit and workmanship guaranteed.

Wm. Jones, The Tailor.

Have you seen the fine line of sterling silverware, at McKinney's. Call and get prices.

CHURCH AND SOCIETY DIRECTORY

Silverton Miners Union—Meets every Saturday evening at 7:30 in K. P. Hall.
J. D. Lewis, Secy. Thos. Colmer, Prest.

A. F. & A. M., San Juan Lodge, No. 33—Regular Communication first and 3rd Saturdays of each month. D. Umble, W. M.
Wm. Montgomery, Secy.

O. E. S., Gem Chapter, No. 16—Regular meetings second and fourth Saturdays each month. Mrs. Mary Lockwood, W. M.
Maggie Morris, Secy.

IMP. O. R. M., Kickapoo Tribe, No. 52—Meets every Friday night, I. O. O. F. hall.
I. S. Freedman, S. D. Cunningham.
K. of R. Sachem.

K. of P., Snow Flake Lodge, No. 61—Meets every Wednesday night.
John H. Dreyer, C. C.
B. Van Slyck, K. of R. and S.

Rathbone Sisters, Baker Park Temple, No. 19—Meets every Friday night.
Flora Washburn. Anna Watson.
M. of R. and C. M. E. C.

Silverton Club—Visitors to the city are welcome. B. B. Galvin, Prest.
Nat Ballou, Secy.

Home Forum, No. 910—Meets first and third Tuesdays of each month, I. O. O. F.
Josiah Watson, Secy. John Rogers, Prest.

Foresters of America, Savoia, No. 28—Regular court Saturday nights, in I. O. O. F. hall.
John Lorenzon. Louis Pedretti,
Secretary. Chief Ranger.

Methodist Episcopal Church—Sunday services at 11:00 a. m. and 7:30 p. m. Sunday School at 2:30 p. m. Prayer meeting Thursday nights.
W. I. Taylor, Pastor.

W. of the W., Silverton Camp, No. 280—Meets every second and fourth Tuesdays of each month, I O O F hall. Bert Brown, C. C
C. H. H. Kramer Clerk.

I. O. O. F., Silverton Lodge, No. 51—Meets every Thursday night. J. D. Weir, N. G.
W. L. Henry, Sec'y.

Encampment, San Juan Lodge, No. 24, I. O. O. F.—Meets every second and fourth Monday.
W. L. Henry, Scribe. W. C. Fisher, P C

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SUBJECT TO IMPRISONMENT.

A Reference that Should Adorn Some Scrapbooks in San Juan.

From the Rocky Mountain News of May 4, we print the following account of an investigation made by a committee, wherein T. F. Feeny was charged with malfeasence of office in furnishing the county with supplies from his own store while in office of county commissioner of Boulder county:

"BOULDER, Colo., May 3.—The jury this morning returned a verdict of guilty on the second count in the case of T. F. Feeny, charged with malfeasance in office. The charge agaidst Mr. Feeny was that while acting as a county commissioner he furnished supplies from his store to the county. He was allowed his liberty on his own recognizance until his sentence is imposed. Mr. Feeny, through his attorney, J. N. Ives, immediately gave notice of appeal.

"The testimony in the case developed the fact that Mr. Feeny furnished the supplies to the county knowing that it was a criminal action.

"Ex-county Attorney Julius Berkley testified that Feeny had consulted him as to his rights to furnish supplies and that he had advised him that he would be guilty of a violation of law if he did so.

"Ex-Clerks H. J. Danford and H. McCall and A. F. Roberts also testified that Mr. Feeny had admitted his wrong doings to them while they were serving as members of a Populist committee appointed to investigate his actions.

"The supplies which Mr. Feeny furnished were from his hardware store which he conducted at the time of his term of office last January and consequently his punishment will be limited to a fine and imprisonment.

A REMINISCENSE.

At the opening of the Kiel canal, Germany, Jan. 19, 1895, Emperor William dined with "Fighting Bob" Evans, on board the Cruiser New York. Captain Evans was highly appreciative of the honor conferred by his majesty and "put himself out" in every possible way to make everything agreeable to that somewhat eccentric monarch. Among other little tid bits of politeness Fighting Bob introduced William to the American cocktail, says the New York Journal. After the amber-hued beverage had found lodgment in the royal stomach, William smiled all over and called for another and as the banquet progressed the monarch announced that he always did admire the inventive genius of the Yankees, but this latest invention of theirs, termed the "gookdail," capped the climax and knocked every other temperance dring that he had any knowledge of, into the shades. William stayed out quite late that night on board the New York and Bob Evans can boast of having been half seas over in the friendly port of Kiel with Kaisor William.

A Call for Aid.

The Daughters of the American Revolution in Colorado have decided to undertake at once to raise funds to be placed at the disposal of the Red Cross Society, to be spent either for the relief of the suffering of Cuba or for hospital work in our own country. It is well known how great the demand has been and still is for funds to meet the needs in Cuba, and how near at hand may be the call to minister to our own soldiers and sailors in hospitals. The nature of the work of the Red Cross society and its record are so well known that they need no emphasis now.

In the present crisis in our nation's affairs the Red Cross society depends upon our own people for support, and all should bear a part in its work.

The Society of the Daughters of the American Revolution acts merely as an agent in this work of raising funds. and it earnestly invites all to assist it in making a general appeal for this noble cause.

Contributions from the smallest amounts upwards are solicited. While the members of the society will make personal appeals as far as possible, it is hoped that no one will wait to be asked for gifts, but will send them at once to Mrs. Edgar T. Ensign, Treasurer, 1409 North Nevada Avenue. All money will be forwarded promptly to the headquarters of the Red Cross Society in New York.

ELIZABETH CASS GODDARD,
Regent of the Zebulon Pike,
Colorado Springs, May 2. D. A. R.

An Editor's Prayer.

An exchange up in Nebraska says an editor went to church recently. and was called upon to lead in prayer, when he said:

"Almighty and kind Father, who doth from from Thy throne look down on the government of men and delinquent subscribers, most humbly we beseech Thee to draw near unto them and whisper a few things into their ears that the statutes forbid us to print. Thou knowest our wants, but the subscriber knowest them not and seldom steps in to inquire. Let it be known unto them that there are large patches on the homestead of our pants, and there is an aching void in the front part of our backs, and that we hunger and thirst and he asketh us not to sup with him. Thou knowest, Lord, that our print paper and ink costs money, but the subscriber knoweth it not, and careth a darn sight less. Thou knoweth that we are cold and the subscriber bringeth not the wood he promised, and we are shivering and shaking while he roasteth his shins by the red-hot stove of his mother-in-law. Tell him all these things, Lord, and if he then faileth and bringeth no succor, banish him to the lower regions to dwell among the calamity howlers, and Thine shall be the glory and praise throughout our newspaper career. Amen."

Royal makes the food pure, wholesome and delicious.

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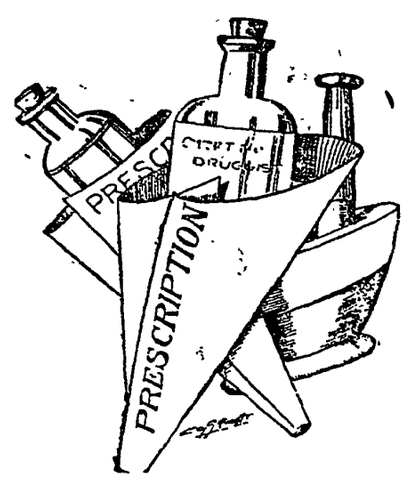
Affords superior advantages. Inquiries may be made through the editor of this paper if desired.
Handbook and New Patent Laws FREE.



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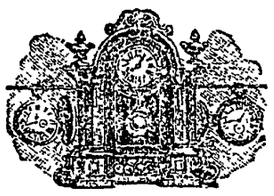
Practical Watchmaker and Jewelry.

Old watches renewed, cases repolished and engravings restored for $5.00. Watches, clocks and jewelery neatly repaired and warranted at legitimate prices. I make a specialty of handling fine watches.



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A gallon of PURE LINSEED OIL mixed with a gallon of
Hammar Paint $1.50 per gallon.
makes 2 gallons of the VERY BEST PAINT in the WORLD

Saves 25 per cent
of your paint bill. IS FAR MORE DURABLE than Pure WHITE LEAD and is ABSOLUTELY NOT POISONOUS. HAMMAR PAINT is made of the BEST OF PAINT MATERIALS—such as all good painters use, and is ground THICK, VERY THICK. No trouble to mix, any boy can do it. It is the COMMON SENSE OF HOUSE PAINT. NO BETTER paint can be made at ANY cost, and is

Guaranteed 5 years
NOT to CRACK, BLISTER, PEEL or CHIP.
F. HAMMAR PAINT CO., St. Louis, Mo.
Sold and guaranteed by

F. O. Sherwood,
DEALER IN
General Hardware, Glass, Oils, Wall Paper, Etc.
Estab. 1872.

Business Directory

JAMES DYSON,
Civil and Mining Engineer
U. S. DEPUTY MINERAL SURVEYOR,
Will examine and report upon Mining Properties, attend to the working of Mines, Assessments, Etc.

LEE SMITH,
Tonsorial Artist,
—Hair Cutting and—
Shampooing.
Shop next to Post Office.

JOSIAH WATSON,
AGENT FOR THE
Continental Fire Insurance Co.
All desiring insurance in a first-class comp'y call at office rear end court house.

BARNES & BARNES,
GEO. W. BARNES, H. H. BARNES, Notary Public
Lawyers,
Office, Grand hotel block, rear Silverton Bank.

BUCHANAN & SEARCY
Mining, Corporation and General
LAW BUSINESS.
Office over Frst Nat. Bank.

M. B. HOLT,
Mining Engineer,
U S DEPUTY MINERAL SURVEYOR,
SILVERTON, - - - COLO.

H. G. PROSSER,
Furniture and Undertaking.
Anything in furniture.

JOHN PERRUNG,
carries a general line of
Staple and Fancy Groceries.
The only first-class bakery in the city,
Fresh Pies, Bread and Cake in abundance.

THE HUB,
K. BENSON. PROP.
Best Brands of Liquors in Stock
Gentlemanly clerks and good goods. East corner 12th and Green Streets.

TIROLD SALOON,
PREDRETTI & MARLI, PROPS.
Wines, Liquors and Cigars
Call in and see the boys. First door above Dowd Bros., Green Street.

GERMANIA BEER HALL
J. G. COLLIER, PROP.
Fine Line of Liquors and Cigars
While on the "rounds" call in and see Jack. Corner 12th and Green Street.

BERQUEST & JOHNSON
The best of "Wet Refreshments" always in stock. Boys coming down from the mines will be royally welcome at all times.

A Certified Order.

The treasurer of San Juan County is compelled to make all delinquents owning personal property to pay up immediately as per the following order, in Judge Russell's court Thursday:

To the County Treasurer—"Now on this day the court calls the District Attorney's attention to the law requiring the county treasurer to collect delinquent personal property tax and the penal Statutes providing for the prosecution and punishment of all officers failing to do his duty as required by law and direct the district attorney to examine the County Treasurer's books and to prosecute said treasurer upon his failing to comply with the law in the collection of personal tax.

Signed and certified to by F. J. Bawden, clerk of the district clerk.

Court Proceedings.

District Court, Judge Russell presiding, convened at 10 o'clock a. m. Tuesand after considerable rustling on the part of Sheriff Rogers, a jury was selected and sworn in. The cases were as follows:

Catherine H. Adams, executrix of the estate of B. D. Adams, deceased, vs Victoria Con Gold Mining company et al, continued for the term by consent.

Byron E. Shear vs Silverton S & M Co continued for term.

Thos. B. Townsend vs Nannie C. Thompson et al, default asked for and granted.

D. Preston Bell et al, vs Golden Shear Mining Co., passed for the term.

John Ward, vs Jno. Kilmartin, Tim Malone and D. Fitzgarald, dismissed by request of plaintiff at plaintiff's cost.

Rebecca A. Woodbury vs Benjamin T. Reese et al, commissioner's report of sale of property submitted, was approved and confirmed as per records of clerk of court.

The Cement Creek Gold Mining company vs The Gold King Mining company was asked for further time by plaintiff and after a lengthy argument was granted.

Bank of Silverton vs L. D. Ricketts et al, judgment was rendered for the plaintiff.

Anthony Lindquist vs R. W. Hollis, continued for the term.

Joseph Bordeleau vs Zuni Mining company, continued for the term.

People vs Grant Cardwell, continuance granted until July 18.

In the case of The People vs Matt Johnson, the verdict of the jury was "not guilty."

By order of His Honor, Judge Russell, the district attorney's attention was called to the law requiring the county treasurer to collect delinquent personal property tax.

The last case on the docket was that of Chas. Forrester, who was sentenced to pay a fine of $15 and costs, $95.45. The whole amounting to $110.45.

Court was adjourned on Thursday morning until the 11th day of July, 1898. The session is said to have been the shortest on record.

Transfers.

For week ending May 13, 1898.

John Perrung to Mary Perrung, warranty deed, Vesper et al.

August Berquest to Chas A Anderson bill of sale, bar fixtures.

Conelius Burns to James McLay, mining deed, Lee.

C F Armstrong to A P Camp, chattel mortgage, personal property.

John Rogers, sheriff, appointment filed, deputy sheriff.

Perry Fisher to E Davis et al, mining deed, Monster et al.

Theo. Grabowsky to Louis Pellow, mining deed, Libbie Bauder.

C C Koennecker to A Gottlieb, mining deed, Cascade and Sunsite.

James Luttrel to Katherine Luttrel, power of attorney, Joe and John.

Frank W Shibbs et al to Mrs Nellie Driggs, warranty deed, Silverton property.

Mary Perrung et al to B F Kelly, mine option, Nena et al.

Thos G McCulloch et al to O F Boyle, chattel mortgage, personal property.

Advertised Letter List.

Following letters remain uncalled for at the postoffice in Silverton, Colo., for the week ending May 13th, 1898.

Barry, David	Bradshaw, J F
Foley, Mollie	Mettler, B L
Fennell, Mr William	
Davis, Carrie B B, Elk Park	

Parties calling for any of the above letters will please say "advertised" and give date of list. ROBT. J. MCCARTNEY, Postmaster.

War Mutterings for the Week.

French mail steamer Lafayette was captured by gunboat Annapolis while trying to run the Havana blockade The boat was released by administration orders and escorted into Havana by an American gunboat. Lafayette unloaded her cargo at Havana and was subsequently ordered by this government to reload the cargo, else she would not be allowed to leave that port, of which she complied with. The steamer sailed for home the 10th.

Dupont and Hornet had an engagement with the sand batteries of Matanzas the 7th inst. in which the batteries were silenced. No damage was inflicted on the boats.

At the capture of Cavite by Dewey 160 Spaniards were killed and 250 wounded. Hospital established within American lines in which 200 sick and wounded Spaniards are being cared for. Ten thousand tons of coal thousands of stands of arms with ammunition, heavy ordnance etc., fell into our hands.

At the fight between the American gunboats, Wilmington and Hudson and the torpedo boat Winslow, against the Spanish gunboats and forts of Cardenas bay, Ensign Bagley and four seamen were killed and Lieutenant Brandon, commanding the boat and two seamen were wounded.

Punta Frieas, Cardenas Bay was captured by American gunboats Thursday and American troops troops are now in possession of that city.

San Juan de Porto Rico was bombarded by Sampson's fleet, Thursday. The forts made but little resistance against the terrible fire from the big guns of the Indiana and Iowa and were reduced to ruins. The bombardment lasted three hours and the casualties on board the U. S. vessels were, one man killed and about a dozen wounded. These belonged to the flagship New York.

Reopening.

The Trimble Hot Springs—Colorado's favorite health and pleasure resort is now open and better prepared than ever to care for its patrons. Finest Medicinal baths in the state. Special rates by the week or month. Letters of inquiry cheerfully answered. G. H. WAKEMAN, Proprietor

I have added a full and complete line of groceries to my stock of hardware, including a complete stock of the Golden Rule canned goods.

F. O. Sherwood.

California Wines direct from the vineyard. Try them once You'll use no other.

Every bottle guaranteed.

JOHN WALTERS

SUCCESSOR TO

F. E. MERBITZ,

Retail Dealer.

Special rates made to purchasers of a dozen bottles or a gallon.

Brandies wines and whiskies

Wines— Both Sour and Sweet.

Independent Meat Market.

C. H. H. KRAMER.

Fresh Fish. Wholesale and Retail Butcher Fresh Meat.

VEGETABLES, CURED MEATS, AND POULTRY

Rohrig & Kramer's Old Stand.

San Juan MEAT MARKET

Bert Brown & Co., Proprietors.

Vegetable and Produce. - - - -

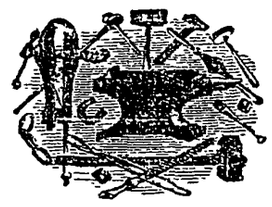
Fresh and Salt Meats.

Satisfaction Guaranteed. -:- Give us a trial. -:- Supplying mines a specialty.

Corner Greene and 11th Streets.

E. L. ROBERTS

ALL KINDS OF HARDWARE ON HAND.



FIRST CLASS FURNITURE IN STOCK.

Fuse and Caps, Agent for Giant Powder.

GREEN STREET, - - - SILVERTON, COLO.

THE SILVERTON BREWERY,

Chas. Fischer, Proprietor,

Silverton, Colorado.

—— Manufacturer of the Famous ——

PILSENER BEER.

Beer for Export in Any Quantity.

PURELY PERSONAL

—Miss DiVernon, a charming young actress of Chicago, is visiting with her mother, Mrs. McCafferty of this city. On her trip from Chicago Miss Vernon stopped over for a week in Denver where she played a short engagement at the Lyceum as leading lady. Her acting is considered superb.

—Thomas Annear, of the Iowa mine, answered summons to serve on jury, but was excused.

—Orville Galbreath of Durango, came up this week to dispose of his household goods. Mr. Galbreath will, in the future travel for an eastern manufaturing establishment.

—Superintendent Majors, of the Iowa mill, made a flying trip to Telluride where his family reside, returning to Silverton Tuesday. He reports matters as being lively over there.

—Johnnie Heyden will cross the briny deep in a few days for his old home England, returning to Silverton about four month later.

—Theodose Grabowsky and family arrived from Denver Tuesday.

—Miss Lillie Christenson has returned from her winter schooling in Denver.

—Mr. J. S. Robinson, who is largely interested in mining properties of this section is in town for the summer.

—Harry Smith was an arrival from Telluride Tuesday.

—W. M. Conroy, of the Silver Lake, spent a few days in town this week.

—Ray Cooper, clerk at the Silver Lake comissary was an arrival Wednesday.

—Wilbur Thomas, the Rocky Mountain News man, and also mine operator is in town.

—The legal fraternity of Durango who attended court here included Reese McClosky, Chas. A. Johnson, B, W. Ritter and District Attorney Spickard, all of whom returned to Durango Wednesday.

—D. J. Maxwell was in Durango Wednesday.

—Kearny & Brew's packing and freighting outfit are in from Delta.

—J. J. Kendall, owner of the North Star mine, (Sultan mountain,) is in town.

—Mrs. Al. Phillips is back again from a pleasant visit with her parents at Pine River.

—Judge Russell and stenographer, Miss McHolland, returned to Durango Thursday.

—Arthur Fassbinder and family will make Silverton their residing place for the summer.

—Mrs. J. C. Champlain is visiting in town with her daughter, Mrs. J. C. Hale.

—Geo. Snyder is in town for a few days from Red Mountain.

—Mrs. Alex. Perino is rejoicing in the arrival of her sister-in-law, Mrs. Perrino, from Italy.

—Mr. Dodds, of Pueblo, will work a mining property of his up South Mineral Creek.

—A. Gottleib was an arrival from Chicago Sunday and has taken up quarters next door to the STANDARD office. As Mr. Gottleib has come to stay for the summer, looking after his many mining interests—his portion of the famous Ridgway group of mines more particular—we are going to treat him as next-door neighbors should, notwithstanding a plentiful supply of rocks in our back yards.

Notice of Forfeiture.

Silverton, San Juan County, Colo.
May 14, 1898,

To CHAUVET:

You are hereby notified that the undersigned has expended during the year 1895, '96 and '97 one hundred dollars in labor and improvements upon the Clipper mining claim, situated in Animas mining district, San Juan County., Colorado, the location certificate whereof is recorded in the office of the Clerk and Recorder of said county in book 86, at page 437, in order to hold said claim under the provision of section 2324 of the Revised Statutes of the United States and the amendment thereto concerning annual labor on mining claims; said sum of one hundred dollars being the amount required to hold said claim for the year ending Dec. 31, 1897, and if within ninety days after the service of this notice upon you by publication, you fail or refuse to contribute to the undersigned your proportion of such expenditure for the said years 1895 '96 '97 as a co-owner and pay for the publication of this notice your interest in the said claim will become the property of the undersigned by the terms of said section.

A. GOTTLIEB.

First Publication, May 14, 1898.
Last publication, Aug. 14, 1898.

SHERIFF'S SALE.

Notice is hereby given that by virtue of a decree of foreclosure of mortgage made and entered by the District Court of San Juan County, Colorado on the 10th day of May, 1898, and of a certified copy of said decree to me delivered and by me now held, whereby I am directed to sell the property in said decree described for the payment of the sum of $2,211.33 debt, $48.60 insurance money and interest, $200.00 attorney's fees, $15 costs and all accruing costs with interest as in said decree specified, and by virtue of an order to carry into effect said decree, under the seal of said court, and delivered and now held by me, which said decree was made and entered in the case of the Bank of Silverton vs. L. D. Ricketts & Co. and L. D. Ricketts, I will on Saturday, June 4th, 1898, at the hour of 2 o'clock p. m. at the front door of the sheriff's office in the town of Silverton, San Juan County Colorado, sell at public sale to the highest and best bidder for cash, or to the plaintiff in said action, the following described property, to-wit:

The "Animas" and "Howardsville" Mill Sites, situate in the Animas Mining District, San Juan County, Colorado, together with the concentrating mill now situated upon said premises. For a more complete description and identification of said premises reference is hereby had and made to the records of said County in book D1 at folios 464 and 465, together with all and singular the appurtenances and privileges thereunto belonging, including all and singular the matters and things mentioned in the 4th finding of the court in this decree.

JOHN ROGERS, Sheriff.

C. A. COOPER,
Assayer.

GOLD OR SILVER, $ 75, COPPER, 75C.
BOTH, - - - - - 1.00. LEAD, - 50C.

Complete price list on application.
Specimens by mail receive prompt and careful attention.

GEO. A. KENNEDY,
Assayer
Greene Street.

W. W. Taylor,
J. C. McKinzie.

Painting,
Paper
Hanging,
Decorating

Sign Writing a Specialty.

McKinzie & Taylor

ORDER FOR CONSTRUCTION OF SIDEWALK.

WHEREAS, The owners of a majority of the property on the west side of block six, fronting on Snowden street in the Town of Silverton, have petitioned for the construction of a sidewalk in from of such side; and whereas, the Board of Trustees of said Town also consider such improvement to be necessary and expedient;

THEREFORE, it is ordered by the Board of Trustees of the Town of Silverton that a sidewalk be constructed along and in front of lots numbered 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 of block numbered six, according to the official and recorded plat of said town; the said sidewalk to be constructed in the manner, form and style, and of the kind and grade of material, provided for in Section 2 of an ordinance entitled: "An Ordinance Concerning the Construction of Sidewalks," passed September 7th, 1891; the sub-sills of such sidewalk to be firmly supported underneath by rock foundation.

I, Mary M. Morris, clerk and recorder of the Town of Silverton, Colorado, hereby certify that the above and foregoing order was passed and made at a regular meeting of the Board of Trustees of said Town, held on the 18th day of April, 1898; and was spread upon the records of such meeting.

Witness my hand and the seal of said Town, this 18th day of April, 1898.

(SEAL) MARY M. MORRIS.
Town Clerk.

NOTICE.

To Josiah Watson, Edgar Buchanan Charles Nelson, Casper Malchus and S. U. Morres, their heirs and assigns, and to whom it may concern:

Notice is hereby given, that in pursuance of the above and foregoing order, made and passed, and entered upon the records, at a regular meeting of the Board of Trustees of the town of Silverton, held on the 18th day of April, 1898, each of the respective owners of lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, of block 6 of the town of Silverton Colorado, according to the official and recorded plat thereof is required to comply with said order as to the property owned by him, her or them, within ten days after the third publication of said order and this notice.

Witness my hand and the seal of said town, this 18th day of April, 1898.

(SEAL) MARY M. MORRIS.
Clerk and Recorder.

Date of first publication, April 23, 1898.
Date of second publication, April 30, 1898.
Date of third publication, May 7, 1898.

SUMMONS.

State of Colorado, } ss
County of San Juan. }

In the County Court.

F. G. STROUP, Plaintiff,
vs.
HENRY SHERMAN, Administrator of the estate of Julia Wheeler, deceased, Ordey Ivers Tressie Ivers, sole heirs of Julia Wheeler and Charles E. Shephard, Defendant. } SUMMONS.

The People of the State of Colorado.

To Henry Sherman as administrator, Ordey Ivers, Trassie Ivers, sole heirs of said estate, and Charles E. Shephard, the defendant above named GREETING.

You are hereby required to appear in an action brought against you by the above named plaintiff, in the county court of San Juan county, state of Colorado, and answer the complaint therein within twenty days after the service hereof, if served within this county; or, if served out of this county, or by publication, within thirty days after the service hereof, exclusive of the day of service; or judgment by default will be taken against you according to the prayer of the complaint; and if a copy of the complaint in the above entitled action be not served with this summons, or if the service hereof be made out of this state, then ten days additional to the time hereinbefore specified for appearance and answer will be allowed before the taking of judgment by default as aforesaid.

The said action is brought to recover the sum of $275.42 of which amount $162.42 is on a promissory note with interest and is secured by a mortgage as will more fully appear from the complaint in said action to which reference is here made by a copy hereto attached.

And you are hereby notified that if you fail to appear and to answer the said complaint as above required, the said plaintiff will take judgment against you according to the prayer of said complaint.

Given under my hand and official seal of said court at Silverton, in said County, this 4th day of May, A. D., 1897.

(SEAL) JOSIAH WATSON.
Judge and Clerk.

First publication May 19, '98.
Last publication June 4, '98.

NOTICE OF FORFEITURE.

Silverton, San Juan Co., Colo.,
February 19, 1898.

To Frank Hendricks:

You are hereby notified that I have expended during the year 1897, $100 in labor and improvements upon the Nellie Griffin Lode, situate in Las Animas mining district, San Juan county, Colorado, of which the location certificate is found on record in book 96, page 520, in the office of the County Clerk and Recorder of San Juan county, Colorado. In order to hold said claim under the provisions of Sec. 2324 of the revised statutes of the United States, and the amendment thereto approved January 22, 1880, concerning annual labor upon mining claims, being the amount required to hold said mining claim for the year ending December 31, 1897. And, if within ninety days from the publication of this notice you fail or refure to contribute your proportion of such expenditure as co-owner, your interests in the said claim will become the property of the subscriber by the terms of said sections.

CHAS. D. DENISON.

First Feb 19, Last May 21, '97.

NOTICE OF FORFEITURE.

Silverton, San Juan Co., Colo
March 12, 1898.

AUGUST SWANSON:

You are hereby notified that I have expended during the year 1897, one hundred dollars in labor and improvements upon the Bland lode mining claim, situated in Red Mountain mining district, San Juan county, Colorado, of which the location certificate is found on record in book 97, page 135, in the office of the County Clerk and Recorder of San Juan county, Colorado. In order to hold said claim under the provision of section 2324 of the revised statutes of the United States, and the amendment thereto approved January 22, 1880, concerning annual labor upon mining claims, being the amount required to hold said mining claims for the year ending December 31, 1897. And, if within ninety days from the publication of this notice you fail or refuse to contribute your proportion of such expenditure as co-owner, your interests in the said claim will become the property of the subscriber by the terms of said section.

DAN SHERIDAN,

First pub Mar. 12,
Last Pub June 11, 1898.

FORFEITURE NOTICE.

Silverton, San Juan Co., Colo.,
March 12, 1898.

NEAL BRENNAN:

You are hereby notified that I have expended during the year 1897, one hundred dollars in labor and improvements upon the Summit lode mining claim, situate in Red Mountain mining district, county of San Juan, State of Colorado, which the location certificate is found of record in book 82, page 271, in the office of the clerk and recorder of said county, in order to hold said claim under the provision of section 2324, of the Revised Statutes of the United States, and the amendment thereto approved January 22, 1880, concerning annual labor upon mining claims, being the amount required to hold said lode for the perion ending on the 31st day of December, A. D., 1897. And f, within ninety days from the personal service of this notice, or within ninty days after the publication hereof, you fail or refuse to contribute your proportion of such expenditure as a co-owner, your interest in the claim will become the property of the subscriber, your co-owner who has made the required expenditure by the terms of said section.

DAN SHERIDAN.

First pub March 12, 1898.
Last pub June 11, 1898.

MINING APPLICATION

No. 1304.

U. S. Land Office, Durango
Colorado, March 31, 1898.

NOTICE IS HEREBY GIVEN, that Sarah W. Enton and John Boardman by John H. Werkheiser their attorney in fact, whose post office address is Silverton, Colorado, have this day filed their application for a patent for 1380 linear feet of the Charles Clinton mine or vein, bearing silver and other metals with surface ground 300 feet in width, situate, lying and being in Animas Mining District, County of San Juan, State of Colorado, and known and designated by the field notes and official plat, on file in this office, as Lot No. 12236 in suspended Township 41 n., Range 7 w. of N. M. P. Meridan.

The exterior boundries of said Lot No. 12,236 being as follows to-wit:

Variation 14° E.

Beginning at cor. No. 1 a post, whence U. S. L. M. "Peerless Lode" bears s. 43° 15' e. 1742.8 ft; Thence s. 65° 20' e 791.3 ft. to cor. No. 2 a post; Thence s. 72° e. 588.8 ft. to cor. No. 3, inaccessible; whence a witness corner, a post, bears s. 71° 33' w. 340 ft; Thence from true place of cor. No. 3 s 24° 40' w. 302 ft. to cor. No. 4, inaccessible, whence the same witness corner bears n. 49° 40' w. 257.8 ft; Thence from true place of corner No. 4, n. 72° w. 571.2 ft. to corner No. 5, a post; Thence n. 65° 20' w. 808.7 ft. to cor. No. 6, a post; Thence n. 24° 40, e. 300 ft. to place of beginning.

The line of the vein extends from beginning of discovery cut n. 65° 20' w. 150 ft. in one direction and in the opposite direction s. 65° 20' e. 650 ft.; Thence s. 72° e 580 ft. Area:—Total area of the Charles Clinton Lode 9.504 acres, less area in conflict with sur. No. 174 Peerless Lode 3.624 acres; sur. No. 8676 Emma S Lode 0.660 acres. Net area of Charles Clinton Lode 5.274 acres.

This claim is bounded on the North by sur. No. 9426 Jess Lode, on the North-east by sur. No. 8676 Emma S Lode and crossed by sur. No. 174 Pearless Lode. None other known.

The Amended Location of this mine is duly recorded in the Recordor's office of San Juan County, Colorado, in Book 92, Page 23.

Any and all persons claiming adversely any portion of said Charles Clinton Lode as herein before described, are required to file their adverse claim with the Register of the United States Land office at Durango, in the State of Colorado, during the sixty days period of publication hereof, or they will be barred by virtue of the provisions of the statute. RICHARD MCCLOUD,

First publication April 2nd, 1898. Registes
Last publication June 4th, 1898.

FREE TRIAL TREATMENT
TO EVERY MAN.

This offer is made by the

ILLINOIS STATE SANITARIUM

provided application be made at once, in order that its inventions, appliances and never failing remedies may receive the widest possible publicity, and prove their own merits by actual use and permanent cures. No money whatever will be received by the Illinois State Sanitarium from anyone under its treatment until beneficial results are acknowledged. Its remedies and appliances have been commented by the newspapers of Two Continents and endorsed by the greatest doctors in the world. They accomplish all and never fail to invigorate, upbuild and fortify.

They infuse new life and energy, they permanently stop all losses which undermine the constitution and produce despondency. They retone, refresh and restore manhood, regardless of age. They cure evil habits and permanently remove their effects, as well as those of excesses and over-taxed brain work, neurasthenia or nervous exhaustion. No failure, no publicity, no deception, no disappointment. WRITE TODAY.

Illinois State Sanitarium,
Cranston, Ills.

Present Day Thoughts.

BY NEMO.

[Copyrighted by Dawe & Tabor.]

We all pass through successive experiences and cannot possibly go back to the time when those experiences were unmet; the thing that happens cannot be rendered non-existent. The whole life of a child and afterwards of the adult in one of sweeping onward; away from innocence to knowledge; away from peacefulness to trouble; away again perchance from trouble onward to quiet of heart—each varied experience however leaving its impress. There is only one certain and sure rule to follow—make the best of the evil that befalls; from mistakes learn wisdom; from righteous deeds gain strength for further doing.

***

Like man, like nation. The war IS; and that is an end to all controversy. Many thousands, like discontented children would gladly travel backward on the pathway of Time to the days when Peace rested in the hamlets of our industrious nation. There may even be some who regard the show of force as uncalled for. But there is no way back to previous conditions. The only way is onward. Neither is their time nor place for saying "I would have preferred this or that" The war being waged by the Nation—that includes all of us, fighters or friends of fighters, men of peace or peace at any price men—all are part of the nation; so that anything short of absolute unity of purpose is seriously wrong. Party feelings suppressed, party lines more invisable than ever; individual prejudices subordinated, individual desires molded into one great purpose:—this is where we stand to-day. One great duty is before us; to so vigorously encourage our government with our hands and our hearts; to so cheerfully support it with our taxes direct and indirect that a war undertaking without frenzy for glory, without lust for conquest, shall be sharp and disastrous to the enemies of feeble women and children. That done, we shall again show the world how a nation that believes in peace, can by the devious path of war bring peace—lasting and glorious—to pass. Our sons will then take up their home work again, and move on to the next duty. But the war will not have passed without leaving an impress on our national life.

***

Let us consider one remarkable direction in which this war has served to show the progress the world is making. During the days and months and years that we have bitterly felt the wrong that was being done to our poor neighbors, there has never been any serious intrusion of the religious aspect of the case, save for one or two sets of resolutions by small bodies of men. No question has been asked as to the belief of the poor creatures whose cruel sufferings have forced us into the world's arena as champions of the defenceless. It seems as though we had reached the common sense attitude of mind when we believe that a wrong is a wrong, and a wound is pang even though inflicted on a man that has no belief at all. It seems easy to say "What you believe, dear suffering one is nothing to me; what you need is my summons to your side." Yet easy though this is for us to say, it is not so many years ago, since the purse-strings of those who do not subscribe to Cuban relief funds, or who surrender the darlings of their fireside for righteousness' sake would have felt the kindly effort misplaced, perhaps wasted because the Cubans are staunch Catholics. These men, for whom we pledge our wealth, our lives and our honor, cling to a faith that as far as possible unites church and state; they honor the Virgin—though why they should not I cannot see—and they have a plentiful calendar of saints to appeal to. But Americans, what have we to do with condemning such things, freed as we are from tyranny and superstition? Infinitely less than nothing. If we measure a man's need and our responsibility by the extent to which he agrees with us about hazy matters in the spiritual realm, we live again back in the centuries when Spain flourished to the full, centuries of rapine and of prejudice wherein we ourselves had a share. But if, as we have done, we clear our minds of non-essentials and finickly differences, when a poor wretch lies before us imploring bodily pity, then are we children of the light, the great clear light that is coming to men's minds as the world rolls on. Verbal Creeds are passing; righteous-doing is on the stage of human progress.

OLD GLORY.

There's a flag that is known through a wider domain
Than the conquering eagle of Rome—
A dominion not severed by mountain or main;
But joined in one glorious home.

And the sleepy sun watches it far in the north,
Where winter its silent court holds,
And the silver set stars in the south land shines forth
To lighten its lingering folds.

For our banner may blow in the bitterest blast.
Or wanton 'neath tropical sun;
But wherever its quivering shadow is cast,
The speech and the spirit are one.

And the stars and the stripes have been shredded and shot
On many a terrible field;
But have shown that their colors were rightly begot
From a nation that knows not to yield.

But though it may toss over conquering hosts.
We fight but that battles may cease,
And we reckon our proudest and noblest boasts
Are the holier triumphs of peace.

For our flag is the flag of the fearless and free,
To the teachings of liberty true:
So we'll honor and cherish where,er we may be
The glorious red, white and blue.

ADOARD OUR SQUADRONS.

Behind the heavy armor there is a padding of either corn pith or cocoa husks.

Great Britain has 294 torpedoes and torpedo-boat destroyers; Uncle Sam has only eight.

Marines are the police on board ship. Originally they were employed to prevent mutiny among the sailors.

Those artists who show smoke in their pictures of naval battles are wholly wrong. Smokeless powder is used.

The fastest vessels in the navy are the torpedo boats Porter and Dupont, each of which can travel 27.5 knots an hour.

In a battle the woodwork and all articles of wood are either stowed below or thrown overboard lest the men be injured by splinters.

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Notice of Forfeitare.

Silverton, San Juan County, Colorado.
April 21, 1898.

To D. J. Shaw, Mrs. Jennie Wakelin, John R. Wakelin, Emma Wakelin, Fred Wakelin, Anna Wakelin and Leonard Wakelin, to the heirs, assigns and legal representatives of John R. Wakelin, deceased, and to whom it may concern:

You are hereby notified that the undersigned has expended during the year 1897, one hundred dollars upon each of the following described lode mining claims, situated in the Animas mining district, San Juan county, Colorado, and of record in the office of the county clerk and recorder of said county at the respective books and pages following said claims, to-wit: The Boscobel lode in book 92, at page 109; the No. 10 lode, in book 92 at page 110; the Lancaster lode, book 92, at page 108; making a total expenditure of $300.00. In order to hold said claims under the provisions of section 2324 of the Revised Statutes of the United States, and the amendment thereto concerning annual labor on mining claims; said respective amounts of one hundred dollars for each claim being the amount required to hold said claims for the year ending December 31, 1897.

And if within ninety days after the service of this notice upon you by publication, you fail or refuse to contribute to the undersigned your proportion of such respective expenditures for said year as a co-owner, your interest in said claims will become the property of the subscriber, your co-owner who has made the required expenditure, under the terms of said section.

S. G. DOWDY.

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SOME VERY BIG WAGERS.

Enormous Sums Won and Lost on the Race-Courses of England.

To give some idea of the extraordinary wealth of men in this occupation and the way they obtain it, William Day mentions in the Fortnightly Review that Davis lost £40,000 to Mr. Bowes, the owner of Daniel O'Rourke, in one bet, when that horse won the Derby. While at dinner the evening after the race Mr. Bowes expressed some anxiety as to whether Davis would be able to meet his engagement, for he knew of others to whom he had lost largely, and in fact Davis was said to have been hard hit. Mr. C. C. Greville being one of the guests at the table that evening and hearing the conversation, mentioned the circumstance to Davis the next morning on the course, who immediately wrote Mr. Bowes a check for the amount and gave it to him. This wealth was made, and tens of thousands of pounds more, by small sums received at the list in shillings and half-crowns by a carpenter—for this was once the daily occupation of Davis, the greatest better ever known.

We had then as owners of race-horses the Dukes of Beaufort, Newcastle and Hamilton. Lord Stamford and the indomitable Marquis of Hastings. Messrs. Saville, Chaplin, Stuart (now Lord Alington), Sirs Frederick Johnstone and Hawley, all of whom knew how and when to bet. Lord Stamford lost over Hermit for the Derby £70,000, and Lord Hastings did the same thing, but on Lecturer for the Cesarewitch the latter won £75,000, and he thought but little of winning or losing £10,000 on a race. If Lord George Bentinck could fairly be called the Napoleon of the Turf in 1839, Lord Hastings was deservedly entitled to the appellation in 1867, for he had no superior in the magnitude and value of his stud or the price he gave for yearlings. He paid Mr. Padwick £11,000 for Kangaroo. His three two-year-olds—Lady Elizabeth, See Saw and the Earl—were perhaps at one time equal to, if not better than, Sir Joseph Hawley's trio—Blue Gown, Rosicrucian and Green Sleeves. Goodwood was then at the height of its prosperity with 36 races and 35 starters in a race. The Duke of Beaufort, always one of the best supporters of the turf, had 19 starters in one year at Goodwood and won 4 races, which included both the Cup, the Stakes and Three Hundred Sovereign Stakes won with Vauben. The Marquis of Hastings won the Lavant and the rich Post sweepstakes of three hundred sovereigns each with Ines. These stakes were run for at the Bibury and Stockbridge meetings. His Lordship's lucky star was in the ascendant, and the racing had never been so good before. In the 33 races that were run for, his horses started 34 times, winning ten races of the value of £7,200. Whether we look at his gigantic betting transactions or the number and value of his horses and the stakes they won, it can not be denied that the Marquis of Hastings was then the first man upon the turf. I may now allude to yearlings and the prices they then fetched. At Middle Park about 1867, or soon after, yearlings fetched extraordinary prices, as much as 1,500 guineas and 2,400 guineas were given, and out of a lot one year the average price was 500 guineas, or 20,000 guineas for the forty. Such prices no one thought would be exceeded, or even ever reached again. But prices have still gone up, and brood mares have increased in value as much as the yearlings, and, in fact, every sort of race-horse has augumented in value in like proportion, till now over 3,000 guineas are given for a brood mare and over 4,000 guineas for a yearling. Stallions have fetched 16,000 guineas, 20,000 guineas have been offered and refused for a horse in training, and 5,000 guineas was a sum not sufficiently attractive to secure a yearling that was offered for sale by private contract this year. * * * But these facts and figures, gigantic and surprising as they are, dwindle into utter insignificance when compared with the value of Hermit. This wonderful and lucky horse stands alone as a race-horse and stallion, for Hermit has won in stakes and bets for his fortunate owner, Mr. Chaplin, somewhere about £150,000, and has since earned at the stud at least as much more, and may still further augment this almost incredible sum. Again, Donovan, up to the present time, has won in stakes more than any other horse ever did, and may, and most likely will, add many more thousands to his record. He has already secured £39,962, and may yet even surpass the mighty deeds of Hermit at the stud, as he has triumphed over his performances on the race-course. Ayrshire, another lucky horse, has won for the same ducal owner nearly as much as Donovan himself, having secured in stakes alone over £36,000 up to the present date, and may, like him, yet increase largely this magnificent sum before his racing career is terminated, and afterward be at the stud as great a success as either of the two extraordinary horses I have just mentioned. These few cases, to which many others may be added, will show us the present value of our race-horses, and how greatly it exceeds the worth of those of any other age or country.

A Household Angel.

For a good, every-day household angel give us the woman who laughs. Her biscuits may not be just right, and she may occasionally burn her bread and forget to replace dislocated buttons, but for solid comfort all day and every day she is a very paragon. Home is not a battlefield nor life an unending row. The trick of always seeing the bright side, or, if the matter has no bright side, of shining up the dark one, is a very important faculty, one of the things which no woman should be without. We are not all born with the sunshine in our hearts, as the Irish prettily term it, but we can cultivate a cheerful sense of humor if we only try.

Cure for Drunkenness.

A half-ounce of ground quassia steeped in a pint of vinegar is recommended highly as a cure for drunkenness. A teaspoonful in a little water should be taken every time the liquor taste is felt. It satisfies the cravings and produces a feeling of stimulation and strength

ELEPHANT WISDOM.

How Faithful Bombera Knocked a Large Stone to Pieces.

A writer in Murray's Magazine eulogizes the intelligence and amiability of the elephant, which, he says, has a heart, though the way to that organ may be through the stomach, and its affection dependent on offerings of oranges, pineapple rinds and other refuse of fruit.

An elephant employed in Ceylon in building a large stone dam to close up a river and thus form a lake was one of the sights of the place.

He first of all drew from the quarry the huge stone that was to be used; he then undid the chain by which he had drawn it. He next proceeded to roll it with his forehead along the narrow stone wall, or embankment, until he had fitted it exactly into its place.

On the one side of this wall was a precipice, on the other a deep lake. As the stone was pushed by his forehead it would at one time incline to the lake, at another over the precipice, but he immediately made it straight again with his foot. He was doing the work of ten men, and with the accuracy of a skilled mason.

One day when he was at work a bystander asked if he would take up a large sledge-hammer lying on the ground and break an enormous rock close to it. The officer in charge of the work said this was asking too much, but the Mahout who heard the conversation replied, gravely:

"Bombera can and will do every thing he is asked." He then said something to the elephant, who took up the sledge as if it were a feather and knocked the stone to pieces.

"Now take your pipe and smoke it," said the Mahout, upon which the animal stuck the sledge in his mouth and walked off with it.

Another elephant also employed in moving stones performed, of his own accord, a most intelligent act. He was carrying a large and heavy stone down a steep declivity, and, as the chain was somewhat long, the stone struck repeatedly against his knees. He stopped, made what the sailors call a bight of the chain, and, having thus shortened it, carried the stone to its destination without further discomfort.

Croton Bugs Eat a Cow.

According to the New York Sun, a new danger confronts amateur photography. The all-pervading Croton bug has taken to the gelatine of the dry plate. An amateur developed some cherished negatives yesterday and set them up on the kitchen washtub to dry over night. In the morning he found the gelatine eaten off all around the edge of the plates in an irregular band as wide as the average Croton bug is long. The bugs had sampled the new dish, and apparently not liking the first taste of it had turned tail without walking further into the landscape. As it was, they had devoured the hinder part of a Jersey cow, an old farm fence, part of a forest, two stacks of corn, half the leg of the hired man and a group of children whole.

Advertising in Paris.

The latest development of the advertising art comes from Paris, where an enterprising publisher has employed a large corps of sandwich men to advertise a book by walking down the boulevards and reading it with rapt attention. An inquisitive gentleman, anxious to know how far this would have an educational effect upon the readers, crept up behind one who seemed more rapt than all the others, and found—that he was reading the book upside down.

THE QUIET MAN WON.

Passengers on an Elevated Railroad Car Enjoy a Rare Treat.

A big, burly man, with the form of a heavy-weight pugilist, was making himself exceedingly objectionable to the passengers on a Sixth avenue train about two o'clock yesterday morning, says the New York Times. He sat with his long legs stretched clear across the aisle, his hat forward over his eyes, and a look on his face which seemed to declare:

"I'm a bad man, see! I'm looking for trouble, and I don't care where it comes from."

Several passengers were unfortunate enough to stumble over the man's feet and in return were profanely abused for doing so. There was not a man in the car who did not feel inclined to punch the fellow's head—but he looked too formidable. At Thirty-third street, however, the bully met his match.

A quiet-looking little man, with the appearance of a prosperous young clerk, but who, in reality, was a well-known teacher in fencing and boxing, entered, and, as he made his way to one of the cross seats, encountered the outstretched legs of the objectionable person. Very politely the new-comer turned to him and said:

"Sir, will you kindly draw in your feet so that I can pass?"

The bully looked up to see who had made such an impertinent request, and said to the inoffensive-looking man, after a string of oaths:

"I'll do nawthing, see! If yer wants ter get by you'll step over dose feet, and if you'so got good sense you'll be careful how you does it."

The little man's eyes flashed, and he said, in a tone very different to that he had previously used:

"Sir, draw in your feet!"

An oath was the only response, and the little man, with a "then take that," gave the big man a magnificent kick in the shins. The big fellow jumped to his feet to annihilate the little one—but he didn't. Hardly was he out of his seat before a sledge-hammer blow under the chin knocked him flat on his back, and there he lay. The blow knocked him out.

The passengers fairly cheered; but the quiet little man was not looking for glory. Going to the seat he had selected before the encounter he sat down, unconcernedly pulled out a newspaper and began to read. The guard and one or two passengers roughly picked the prostrate man up and jammed him into a seat. His dazed senses soon began to return, but he said not a word, and at Fifty-ninth street he meekly left the train.

PRETTY WOMEN'S ENEMY.

How to Remove the Wrinkles Which Disfigure So Many Faces.

A secret to take away wrinkles, says the Philadelphia Press, is to heat an iron shovel red hot, throw on it a spoonful of myrrh in powder and smoke the face over it, covering person and shovel with a sheet to keep in the fumes. Repeat this three times, heat the shovel again, and pour on it two spoonfuls of white wine, steaming the face with it three times.

This rite is to be repeated night and morning until the effect is gained. Plantain water is very softening for the face, but vaseline rubbed on the skin of the neck and face every night faithfully will keep wrinkles at a distance for long years after their usual appearance. It should be generously applied, left for the skin to absorb a few minutes, and the excess wiped gently off with a soft cloth.

As vaseline is twenty-five cents a pound, which lasts a year, this is the cheapest as well as the safest general cosmetic. This should always be applied before going into the hot sun for long walks or rides, as well as domestic work in heated rooms. The skin must always be washed clean with warm water and fine soap and well dried before using any application, and man or woman always wants to go to bed with face and neck thoroughly and freshly washed.

Sleeping with the imperceptible dust of the day in the skin, clogging and graining it, is a great cause of wrinkles.

Delightful little toilet bran bags are making their appearance, filled with bran, grated olive soap and almonds, which pressed in water a few seconds gives a creamy lather to be rubbed on the face, neck and body, and wiped off with a soft towel, without rinsing. Those who like can make their own almond meal, as follows:

Grated almonds, one pound; flour, the same; powdered orris, one-quarter pound; lemon oil, one-half ounce; oil of bitter almonds, one-quarter ounce. The almond powder for the hands is blanched and powdered almonds, one-half pound; grated castile soap, four ounces; orris powder, one ounce; finely powdered pumice stone, three ounces; oil bitter almonds, one drachm.

Cocoa butter has long been used by Spanish creole women to nourish and soften the skin and prevent sunburn. Apple pomade is said to whiten the skin. Oil of white poppy seed, and of the four cold seeds, each 1 gill, with an ounce of white wax and three-quarters of an ounce of spermaceti made into a pomade, is applied to the neck and face to ward off wrinkles.

Some Striking Contrasts.

An English lady living temporarily in the United States notices that the house servants do a deal more work here than in the old country; yet that our servants are relieved of some work that is necessary there—the taking of hot and cold water to sleeping-rooms in some houses, and the care of a fire in every room by reason of no furnace in the cellar. She insists upon the superiority of stoves here over fire-places in England in cold weather, and says that the kitchen stove here burns much less coal than it does there. The use of bituminous coal in England is one cause of some of these troubles. The independence of the domestic servants in America is another noticeable fact as might be expected in a democratic country. As a sample of the greater conveniences here, the carpet sweeper is mentioned, with its dustless work, in place of a broom, which is solely used in England.

Falling from a Height.

In reference to an annotation in the Lancet upon this subject, a medical man, formerly a sailor, states that in youth he fell from the topgallant yard of a vessel, a distance of at least one hundred and twenty feet. Sensation was entirely lost during his transit through the air. It returned slightly on striking the water, sufficiently to enable the lad to strike out (being a good swimmer) and seize a life buoy. The writer thinks death would have been painless had he fallen on some hard substance; but the assertion that persons die in the act of falling is, he thinks, evidently wrong.

The Mountain Sphinx.

In Surrey County, N. C., there is a remarkable natural curiosity in the shape of a mountain resembling the famous sphinx of Egypt in all its details. It lays east of the Blue Ridge Mountains, on the Piedmont plains, like a gigantic lion; its body at right angle to the ridge and with head reared aloft as if in the act of rising. The head is of solid rock, several hundred feet in height. The shoulders and breast are finely proportioned, and at the distance of a few miles it looks like a thing of life and intelligence. It rises about 1,500 feet above the plain and can be seen for a distance of 50 miles.

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Coroner	H. G. Prosser

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Mayor	John W. Wingate
Clerk	B. B. Galvin
Treasurer	E. L. Coolbroth
Trustees	{ John Purrung, Chas. E. Jones, P. Anderson, Jas. C. Bowman, Jas. Dyson, Chas. Fischer
Marshal	F. M. Snowdon
Police Judge	L. F. Hollingsworth

THE COURIER-JOURNAL,
The Representative Newspaper of the South West. Largest Circulation of any Democratic Newspaper in America.
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THE WEEKLY COURIER-JOURNAL is the largest and best Democratic newspaper issued. It is an eight-page paper of eight columns to the page, and its sixty-four columns each week are filled with live and interesting matter. It is newsy, bright and clean, and leads the American newspaper of to-day. The regular subscription price is only $1 a year, and to clubs of eight yearly subscribers at one time, with eight dollars, an extra copy is sent one year to the address of the club-raiser, or to any other address desired. In other words, nine copies one year for eight dollars. *The Courier Journal* is the one great newspaper, west of the Alleghenies, and south of the Potomac and the Ohio, which has had the courage, the independence and the ability to stand and resist the flood tide of monopoly sweeping over the land and to make an upright and disinterested defense of the toiling, tax-paying masses of the people. Fighting all dishonest schemes, the *Courier-Journal* is as a sentinel on the watch-tower, sleepless and vigilant.
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THE NEW YORK SUN
FOR
1890.
Some people agree with *The Sun's* opinions about men and things, and some people don't; but everybody likes to get hold of the newspaper which is never dull and never afraid to speak its mind.
Democrats know that for twenty years *The Sun* has fought in the front line for Democratic principles, never wavering or weakening in its loyalty to the true interests of the party it serves with fearless intelligence and disinterested vigor. At times opinions have differed as to the best means of accomplishing the common purpose, it is not *The Sun's* fault if it has seen further into the millstone.
Eighteen hundred and ninety is the year that will probably determine the result of the Presidential election of 1892, and perhaps the fortunes of the Democracy for the rest of the century. Victory in 1892 is a duty, and the beginning of 1890 is the best time to start out in company with *The Sun*.

Daily, per month	$0.50
Daily, per year	6.00
Sunday, per year	2.00
Daily and Sunday, per year	8.00
Daily and Sunday, per month	0.70
Weekly Sun, one year	1.00

Address THE SUN, New York.

SILVERTON STANDARD.

CHAS. W. SNOWDEN, Editor.

SATURDAY, JANUARY 18, 1890.

THE credit of San Juan county was never better than it is to-day. County bonds were sold last week at a premium.

CALVIN S. BRICE has been elected United States senator from the state of Ohio. Some of the people are kicking of course, and say Brice is a resident of New York state, but they will get over this in a few days.

A. R. CUTTING, of Mexico fame, has turned up in Colondo again, having recently assumed the management of the Grand Junction *Democrat*. In 1872 he was proprietor of the Central hotel, at Central City, this state.

T. A. GIFFORD, Jan Juan county's new commissioner took his seat upon the board this week. He is well acquainted with the needs of the county, is an old resident here, and that he will make a good commissioner, is admitted by everyone.

ACCORDING to the law passed by the last legislature taxes were not delinquent on the first of January. This happening hereafter does not take place until the first of March, which is no disappointment to the property owners of San Juan county.

THE treasury suits against ex-Treasurers Culver, Walsen, Breene, Swallow and Sanders, have at last been commenced by Attorney-General Jones. That the state will recover anything is not to be expected, but we trust the lawyers engaged will receive a handsome remuneration.

ED. COWAN, the man who followed James G. Blaine over Europe in the interests of the Chicago *News* has, in partnership with Will Hawkins, obtained control of the *Evening Capitol*, of Washington, D. C. Ten years since Ed. was working on one of the Leadville papers.

THE pleasures of running a newspaper in the sunny San Juan are never better appreciated than at the present time. The spring crop of mining items has not commenced to sprout. The circle tourists are hibernating in some colder climate. A great many San Juaners are freezing to death in the east, or bucking cyclones in the middle states. The Conejos range is blocked with snow, and the mails, which might give us some consolation, are a prey to a herd of Mexican snow shovelers, who cannot appreciate these evidences of civilization. News—there is none, even the snow is chestnutty and the output light, we can bask in the sunshine and use strong language about the Conejos, eat, sleep, dance and make the best we can of things generally. If this blockade continues, we shall next week commence filing the articles of incorporation of the Silverton street car company, which we shall build from the race track to the grave yard, with branch lines to the depot and the toboggan slide. Full particulars of how the Denver train will certainly run through in the spring, with a graphic description of the scenery on the route, full time tables and bills of fare of the various eating houses, will occupy another column. A new process of extracting gold from building rock by a dry process will be thoroughly explained by one of our mining correspondents, and an interesting article on the future of Kendall mountain as a site for a state home for impecunious burros will be read by everyone with pleasure. These may be innovations, but we trust our readers will appreciate our efforts to give them the news. The experiment will certainly prove one thing, if it does not prove what we expect it will prove the opposite.

MINES and MILLS.

Shropshire Bros. finished bringing down the last three cars of Pearl ore this week.

Steve Lay will start up work next week upon the Cicero, a promising prospect of his near the Pyramid.

P. J. Folsom sent some men up to the Pyramid this week, and will go up himself about Monday to superintend the work.

All the Red Mountain mines are crowded with ore, and are anxiously awaiting the opening of the Silverton railroad.

The Standard mill is all under cover and machinery being put in place. Fred Moore will go to Denver in a few days to purchase some more machinery.

Louis Rohrig and Chas. Kramer were up to see their Boulder gulch property yesterday, and were agreeably surprised to see so much ore. They say the Protection and Republican will be steady shippers next season.

Louis Rohrig purchased from George Plantz, last week, a half interest in the Republican and Protection lodes, in Boulder gulch. Both claims show a large body of ore which assays about fifty ounces silver and twenty per cent. copper, which should pay a handsome profit if shipped.

Niegold Bros. intend working their gold property on Galena mountain shortly. They are trying to make a contract with the packers now. The ore will be treated at the Standard mill.

The shaft on the Emma mine, on Anvil mountain, has been sunk sufficiently deep to convince the owners that the vein pitches into the hill and that the breast of the crosscut is some 100 feet from the lead. The force have now gone to work on the crosscut which will be pushed until the vein is reached.

The Silver Lake has a force of fourteen men working this winter. Work is being pushed upon the crsscut tunnel being run from the Silver Lake workings to cut the Black Diamond vein, the larger portion of which is now owned by Stoiber Bros.

Tom Colmer and Frank Robbins, who have a lease on a block of ground on the Aspen mine, one hundred feet on each side of the J. L. P. tunnel and one hundred feet deep, have started a shaft, and showed us some very fine specimens of native silver this week. Some very rich ore was taken out of this part of the mine some years ago, and the boys will without doubt make big money out of their lease.

Staples & Casard, the contractors on the Silver Belle, at Ophir, owned by the Silver Belle Mining company, of St. Louis, report that the crosscut tunnel is now in 175 feet. Seven men are employed. The tunnel is seven feet high four feet wide at the top and five feet wide at the bottom. The contractors have only been working two months and if the same progress is kept up, the tunnel, which will be 600 feet long, will be completed by the fourth of July.

Frank Wolaston and Gus Jacobson are leasing on the Atlanta group, consisting of the Atlanta, Poe and Gardiner claims, on Anvil mountain, and owned by W. McManamy. Mac is helping the boys on the lease. They have sunk a perpendicular shaft to cut the Gardiner, and are now down 56 feet but have not cut the lead. Next week they will commence crosscutting to the lead and expect to cut it in about ten feet. Assays from the mine run all the way from nothing to 9,000 ounces.

County Commissioners Meeting.

The county commissioners met in regular session on Tuesday last; all the members of the board being present.

T. A. Gifford, the newly elected member of the board took his seat for the first time.

On motion Commissioner F. A. Wingate was elected chairman of the board for the ensuing year.

On motion of McNutt, seconded by Wingate, the assessments of Jos. Bordoleau and W. G. White, on account of merchandice was reduced to $5,000.

On motion of Wingate, seconded by McNutt, the question of giving the county treasurer $1,100 from the contingent fund in payment of salary was reconsidered and the matter laid upon the table until the return of County Treasurer F. B. Brown from the east. This action was taken because the commissioners found that the contingent fund could not be applied to the payment of salaries or commissions.

Moved by McNutt, seconded by Gifford, that the treasurer's attention be called to the law relating to the payment of county orders, and that they be paid in the order in which they are presented.

The election of a county attorney was the next business. McNutt nominated C. M. Frazier. Wingate proposed L. F. Hollingsworth, and Gifford placed the name of H. O. Montague in nomination. C. M. Frazier was elected on the second ballot, and the salary was made the same as last. This is Mr. Fraziers fourth term as county attorney, and the very fact of his re-election again and again, is proof positive that the commissioners at least, appreciate his work for the county.

On motion of McNutt the bondsmen of the late W. F. Graf were invited to meet the board on Wednesday morning at ten o'clock, and the meeting then adjourned.

The whole of Wednesday forenoon was devoted to the discussion of the Graf matter. Judge H. O. Montague, the administrator of the estate, explained that he had hopes of disposing of the Lackawana mine before spring, but in the event of the negotiations falling through, he would apply to the court to sell the property and would guarantee a bid of $10,000. The board after listening to Judge Montague let the matter drop.

The bid of $40 made by Bayly & Thorp to supply the county with medical supplies was accepted.

The county clerk was instructed to write to the treasurer of Ouray county requesting him to pay over to this county the money he had collected for liquor license from the saloon near the Old Lout, which is in this county.

On motion the First National Bank was appointed the agent of the county to pay the interest on the bonds, due on February 1.

The county officers, who have deputies, were requested to file the appointment and oath of their deputies with the county clerk.

On motion the action taken on White and Bordeleau's assessments were revoked.

County Clerk M. W. Emory was appointed purchasing agent, and the board adjourned.

ROMANCE IN REAL LIFE.

A Thrilling Episode That Would Have Delighted Wilkie Collins.

A case of mistaken identity involving elements of dramatic interest sufficient to make the fortune of a sensational novel has just occurred in Switzerland, says the Pall Mall Gazette. A young couple named Favre belonging to the working class had lived happily together for some years at Neufchatel, when the husband, a working mason, began to give way to habits of drinking. Efforts were made to reclaim him, and he became an abstainer for some time. Some months ago, however, he broke out again and left his home. His wife had heard nothing of him for three months, when one night she was awakened by a voice calling her repeatedly from the street outside and which she felt sure was that of her husband. She rose, dressed, and went into the street, but found no one. A few days afterward she read an account in the newspapers of a man who had committed suicide on the railway at a small village near Bale. From the description of him she suspected it might be her missing husband, and became full of the idea that the voice she had heard was a communication from him at the moment of death. She was corroborated in her belief by learning, as the result of inquiries, that he had made application for work at a neighboring quarry, but being in liquor at the time had been roughly refused by the foreman. The body for some time now had been interred, but in order to put an end to her suspense the poor woman, having got together a little money, started off with the determination to have the body disinterred. She reached the village, and after some delay secured permission to open the grave. With two or three men as assistants she set to work. When the coffin was opened the effluvium was so terrible that her companions ran and left her alone with her dead. For twenty minutes unaided she pursued her ghostly task. The body had been decapitated by the train, and the head, horribly mutilated, was wrapped by itself in a cloth. She uncovered it and recognized it by the teeth. One of the stockings also she knew again from having mended it with a particular kind of worsted. Her worst fears thus confirmed, she returned home in the depths of sorrow. The aged mother of the man was informed of the identification, and mourning was being prepared for the whole family when the crowning act of the drama was furnished by a letter which has just been received from Favre himself, announcing that he is at Winterhur alive and well! The wife had, after all, identified the wrong man! Who it is that actually lies in that lonely grave no one knows. What would not Wilkie Collins have made out of that midnight voice, the grave-yard vigil and the extraordinary denouement!

BOUGHT BY HIS FATHER.

How a Slave-Dealer Was Compelled to Withdraw His Bid.

In Jacksonville, Fla., in the winter of 1848, an auction sale of the personal estate of a deceased planter, comprising some seventy or eighty slaves and other "chattels," was held in the public market place. I was glad of the opportunity to see for myself how such things were done, writes a New York Sun correspondent. On beginning the sale the auctioneer announced that families would not be separated, but would be sold in "lots." After a number of "lots" had been duly brought to the block and knocked down to the highest bidders a bright-looking boy was brought forward and placed upon the stand. The auctioneer at the same time called an old colored man among the crowd to come up and stand beside the boy. He did so, and the auctioneer then said:

"Gentlemen, the old man is the boy's father; he lives in the West Indies, and is a free man. He wants to buy the boy and take him to his home and make him free. He bids $400, which is all the money he has."

The intent of this statement was evidently to discourage any advance on that bid, and it touched a sympathetic chord in his audience. The crowd watched the proceedings for a minute or two in silence, while the auctioneer dwelt upon the bid of $400, and was calling it for the third and last time, when, from the outskirts of the crowd, a voice bid: "Fifty." Every eye was at once turned in the direction of the bidder, who was a rough, dissipated-looking fellow, a typical slave trader in appearance. The auctioneer paused a moment, looked annoyed, and then repeated his previous statement concerning the old man, emphasizing the remark that four hundred dollars was all the money he had. "And now," said he "I am bid four hundred and fifty." From a dozen voices came the cry: "Withdraw your bid!" The auctioneer awaited the result. The bidder growled a surly refusal, saying he "wanted that boy, and had as good right to bid as anybody." "Four hundred and fifty," came slowly from the lips of the auctioneer. The shouts of "withdraw your bid!" were repeated in angry tones on every side.

"Well," said the bidder, "I withdraw it."

The auctioneer quickly went back to the original bid, on which he dwelt two or three times, when down went his hammer. "Sold at four hundred. Old man, the boy is yours; take him down." The crowd cheered, and the principal figure in this little drama, who the moment before had been the picture of despair, hurried down from the stand smiling and happy.

Incombustible Curtains.

There are many substances which have the property of rendering the fabrics to which they are applied incombustible, but they usually spoil them, either by changing the color or stiffening them to such a degree that they can not be used. An easy and safe way to protect curtains and mosquito nets against fire is said to be by steeping them in a solution of phosphate of ammonia, obtained by mixing half a litre of water (one pint) with one hundred grammes (about three ounces) of phosphate. In this way the color and texture remain unaltered.

LOCAL ITEMS.

A number of the children in town have been suffering from the grippe.

The new county officers filed their bonds and took the oath on Tuesday last.

J. W. Taylor was down town yesterday, but feeling rather weak after his battle with the grippe.

Gharlie Shields bid the sunny San Juan a long adieu yesterday. He went to Pueblo for the winter.

The Ameteur Snow shoe club will hold a meeting on the foot hills to-morrow afternoon. Lots of room for everybody.

J. C. Garretson has purchased the remains of Breen & McNicholas' brick warehouse, and will use the brick for his new assay furnace.

Moses Liverman, general superintendent of the Silverton railroad, arrived in Ouray on Thursday, on his way home from Denver, and is expected in this evening.

Perrung & Bernard are making a new kind of brown bread which is guaranteed to keep moist for a month. Anyone desiring to keep it longer and then eat it can get an ore crusher with each loaf.

Where Wabash Leads.

The announcement of one of the Eastern roads that it had finally decided to follow in part the excellent example set so many years ago by the Wabash, and embellish one of its passenger trains with a real dining car, have developed some rather favorable comments among railroad and traveling men. The statement, however, that the new line would be "The only Dining Car Line between St. Louis and New York" has caused great amusement, in view of the well and widely known fact that the Wabash has been operating the superb Dining Car Service in connection with its New York, Boston and Chicago through trains *for more than nine years*, and has no idea of discontinuing this popular feature of the equipment.

The truth of the matter is, that the Wabash is still the only Dining Car line from St. Louis to the East, as Dining Cars are attached to all through trains, serving all meals, and it does not feed one train and let the passengers on other trains go hungry. The service on the Wabash, as most St. Louisans know s unsurpassed and unsurpassable, and the cars are models of elegance, neatness and comfort.

"It seems strange," said a traveling man yesterday, "that the other St. Louis roads have invariably permitted the Wabash to be the pioneer line in introducing new features for the comfort of passengers. Now I had three splendid meals in dining cars on the Wabash while on my way back to New York to vote during the Garfield-Hancock campaign of 1880, and have enjoyed hundreds of square meals since on the same line, and those other Eastern lines are just beginning to talk about dining cars. They make me tired."

"Yes," chimed in a bystander, "and the Wabash was the first line to give St. Louis a solid vestibuled train service."

"And the first line to put on reclining chair cars to Easten cities," said another.

"And the first line to adopt the buffet compartment sleepers, with private staterooms, the finest thing on wheels," said a third.

"And it makes better time, and has a smoother track than any of them, and gets there all the time," added a fourth. "I always take the Wabash when possible." And they all agreed with him.

SHERIFF'S SALE.

BY VIRTUE OF AN EXECUTION ISSUED out of the Clerk's office of the County Court of San Juan County and State of Colorado, and to me directed, whereby I am commanded to make the sum of Ninety-two dollars, ($92.00), and cost of suit, the amount of a certain judgment recently obtained against R. D. Lambert and J. W. Kendall in favor of S. M. Kellom out of the lands, tenements, goods and chattels of the said R. D. Lambert and J. W. Kendall, I have levied on the following property, to wit: The Mabell lode or mining claim, situated in Animas mining district, San Juan county, Colorado, a record whereof is found in the office of the clerk and recorder of said county in book 67, page 459, to which said records reference is hereby had and made for a more particular description of thesame.

Therefore, according to said command, I shall expose for sale, at Public Auction, all the right title and interest of the above named R. D. Lambert and J. W. Kendall in and to the above described property, on Monday the 10th day of February, 1890, at 2 o'clock p. m., at the foot of the stairs leading to the county offices in the town of Silverton.

Dated at Silverton this 18th day of January, 1890.

JOHN M. MAY,
Sheriff of San Juan County.

First Publication January 18, 1890.
Last Publication February 8, 1890.

NOTICE OF FORFEITURE.

SILVERTON, SAN JUAN COUNTY, COLO.,
January 1, 1890.

To Mrs. Katie Warren, her heirs and assigns:

YOU ARE HEREBY NOTIFIED THAT WE have expended one thousand dollars in labor and improvements upon the Consolidated Virginia lode, situated in Eureka mining district, San Juan county, State of Colorado, as will appear by certificates filed in the office of the Recorder of said county, in order to hold said premises under the provisions of section 2324 of the Revised Statutes of the United States, being the amount required to hold the same for the years 1879, 1880, 1881; 1882, 1884, 1885, 1886, 1887, 1888 and 1889, ending December 31, 1889.

And if within ninety days from the service of this notice by publication, you fail or refuse to contribute your portion of such expenditure as a co-owner, and pay for the publication of this notice, your interest in said claim will become the property of the subscribers under said section 2324.

WILLIAM WALDO,
JOSIAH WATSON.

First Publication January 4, 1890.
Last Publication April 5, 1890.

SEMI-ANNUAL STATEMENT.

—OF THE—

TREASURER OF SAN JUAN COUNTY.

STATE OF COLORADO.

TO THE HON. COUNTY COMMISSIONERS,
SAN JUAN COUNTY, COLORADO.

Gentlemen:—I herewith submit for your examination and approval, the Semi-Annual Statement of the receipts and expenditures of San Juan county for the six months ending December 31, 1889.

COUNTY FUND.

DR.		CR.	
To warrants outstanding June 30, '89	$39,561 71	By warrants cancelled	$ 4,564 37
To account interest on county warrants	1,787 51	By accrued interest paid county	1,787 51
" " " ord. "	6 76	" " " ord'y. & con't.	6 76
To treasurers certificate issued	72 67	By warrants outstanding Dec. 31, '89	38,691 29
To warrants issued past six months	3,621 29		
	$44,999 93		$44,999 93

CONTTY ROAD FUND.

DR.		CR.	
To warrants outstanding June 30, '89	$30,159 38	By warrants cancelled	$ 728 69
To accrued interest	70 82	By interest paid	70 82
To treasurers certificate issued	772 39	By warrants outstanding Dec 31, '89	30,203 08
	$31,002 59		$31,002 59

COUNTY CONTINGENT FUND.

DR.		CR.	
To warrants outstanding June 30, '89	$ 23 35	By warrants cancelled	$1,235 00
To " issued past six months.	1,237 15	" outstanding Dec 31, '89	25 80
	$1,260 80		$1,260 80

ORDINARY REVENUE FUND.

DR.		CR.	
To warrants outstanding June 30, '89	$1,186 85	By warrants cancelled	$1,488 05
" issued past six months	3,247 87	" outstanding	2,946 67
	$4,434 72		$4,434 72

TOTAL DEBT.

DR.		CR.	
To con'ty bds '84 bearing 8 per cent int	$88,700 00		
To school " " "	10,000 00		
To county war's & certificates outsta'g	38,691 29		
To road " " "	30,203 08		
To contingent " " "	25 80		
To ordinary " " "	2,946 67	By cash on hand to cred above funds	$ 3,715 90
To due the several state funds	191 22	By balance (debt of county Dec 31, '89	177,042 16
	$180,758 06		$180,758 06

The above statement is correct to the best of my knowledge and ability.

FRANK B. BROWN,
Treasurer of San Juan County, Colo.

Dated at Silverton this 31st day of Dec. A. D. 1889.

The following number and kinds of warrants were cancelled during the past six months.

	NO.	AMOUNT.
County general warrants	34	$4,564 37
" road "	2	728 69
" contingent "	23	1,235 00
" ordinary revenue warrants	60	1,488 05
School warrants	21	621 11

Condition of the various funds as shown by cash book December 31, 1889.

DR.		CR.	
		By to credit of special cont'g fund	$ 171 86
		" " state fund	110 81
		" " stock inspection fund	3 03
		" " school fund	38 13
		" " school special fund	37 19
		" " road fund	3,303 95
		" " state institution fund	45 57
		" " military poll fund	9 00
		" " special town fund	155 86
		" " town fund	25 01
To county fund overdrawn	$ 712 07	" " county bond int. fund	720 40
To school fund overdrawn	220 42	" " capitol building fund	22 76
By balance due various funds	3,715 90	" " ordinary revenue fund	9 72
	$4,648 39		$4,648 39

MINING APPLICATION NO. 883.

SURVEY No. 5940

UNITED STATES LAND OFFICE,
DURANGO, Colo., December 19, 1889.

NOTICE IS HEREBY GIVEN THAT Thomas Merrill, by George U. Ingersoll, Attorney in fact, whose postoffice is Silverton, Colo. has made application for a patent for 1500. linear feet each on the Esmeralda and Silver Crown Lodes, bearing gold and silver, with surface ground 300 feet in width, situate in Animas Mining District, San Juan County, State of Colorado, and described in the plat and field notes on file in this office as follows, viz:

ESMERALDA LODE.

Beginning at Cor. No. 1., whence the U. S. L. M. "Terrible" bears S 11° 55 E 4711 feet. Thence N 50° W 820.6 ft. to Cor. No. 2 whence Cor. No. 3 of Sur 1156-B being also Cor. 4 of Sur. 1157-B bears N 71° 48 W 255.4 ft. Thence N 37° 30' W 679.9 ft. to Cor. No. 3. Thence N 40° W 807.8 ft. to Cor. No. 4. Thence S 37° 30' E 646.1 ft. to Cor. No. 5. Thence S. 50° E 853.4 ft. to Cor. No. 6. Thence N 40° E 309 ft. to Cor. No. 1 place of beginning. Area in conflict with Survey No. 1156-B Big Giant Mill-site, 0.49 acres, and Survey No. 1157-B, Mountain Quail Mill-site 1.92 acres.

SILVER CROWN LODE.

Beginning at Cor. No. 7 identical with Cor. 8 this Survey. Thence N. 37° 30' W 1500 ft. to Cor. No. 8. Thence S 40° W 307.3 ft. to Cor. No. 9. Thence S 37° 30' E 1500 ft. to Cor. No. 10 identical with Cor. 4 this Survey. Thence N 40° E 307.3 ft. to Cor. No. 7, place of beginning. Area in conflict with Survey No. 1157-B, Mountain Quail Mill-site 0.26 acres.

Area of Esmeralda lode 10.33 acres. Area of Silver Crown lode 10.33. Total area of claim 20.66 acres. No conflicts excepted. Area in conflict claimed.

Located in township 41 N of Range 7 W of the N. M. P. M., Little Giant Gulch, said location being recorded in volume 67, pages 608 and 607 respectively, of the records of San Juan County, Colo., adjoining claimants, Surs. Nos. 1156-B and 1157-B, Big Giant Mill-site and Mountain Quail Mill-site, respectively.

RICHARD MCCLOUD,
Register.

First Publication December 21, 1889.
Last Publication February 22, 1890.

NOTICE OF FORFEITURE.

SILVERTON, SAN JUAN COUNTY, COLO.,
January 11, 1890.

To William Malatt, his heirs or assigns:

YOU ARE HEREBY NOTIFIED THAT I have expended one hundred dollars in labor and improvements upon the Last Chance lode situated in Animas mining district, San Juan county, state of Colorado, as will appear by certificate filed in the office of the recorder of said county, in order to hold said premises under the provisions of section 2324, revised statutes of the United States, being the amount required to hold the same for the year ending December 31, 1889.

And if, within ninety days from the service of this notice by publication, you fail or refuse to contribute your portion of said expenditure as a co-owner, and pay for the publication of this notice, your interest in said claim will become the property of the subscriber, under said section 2324.

ANNIE BLAIR.

First Publication January 11, 1890.
Last Publication April 12, 1890.

Christmas Holiday Excursions.

The Texas Pan Handle Route, (Denver, Taxes & Ft. Worth R. R., Ft. Worth & Denver City railway,) will sell excursion tickets from all stations on their lines to all local stations within a distance of 200 miles, at one fare the round trip, except that within the state of Colorado, the distance limit will not apply. Tickets will be sold on December 24th, 25th, 31st and January 1st, good for return to January 3d, 1890.

For holiday excursion tickets to the South-east, on December 21st, 22nd and 23rd, good 30 days, inquire of any coupon ticket agent of the Ft. Worth and Denver City railway, in Texas.

GEO. ADY,
Gen'l. Passenger and Ticket Agent.
D. T. & Ft. W. R. R.
Denver, Colo.

NOTICE OF FORFEITURE.

SILVERTON, SAN JUAN COUNTY, COLO.,
November 23, 1889.

To Charles M. Bloss, his heirs or assigns:

YOU ARE HEREBY NOTIFIED THAT I have expended one hundred dollars in labor and improvements upon the Dutch Girl lode situateb in Animas Mining District, San Juan County, State of Colorado, as will appear by certificate in the office of the Recorder of said County, in order to hold said premises under the provisions of Section 2324, Revised Statutes of the United States, being the amount required to hold the same for the year ending December 31, 1888.

And if, within ninety days from the service of this notice by publication, you fail or refuse to contribute your portion of such expenditure as a co-owner, and pay for the publication of this notice, your interest in said claim will become the property of the subscriber, under said Section 2324.

W. A. EASLEY.

First Publication November 23, 1889.
Last Publication February 22, 1890.

TRUSTEE'S SALE.

WHEREAS ON THE THIRD DAY OF October A. D. 1888, Fred C. Sherwin, of the County of San Juan, State of Colorado, did execute, acknowledge and deliver unto M. W. Emery, of the same county, as Trustee, his certain deed of trust, conveying unto the said trustee the following described premises situate in said county, to wit:

An undivided one-third (⅓) interest, part or parcel, in and to a certain lode mining claim, located, described and known as the "Mabell" lode, being situated in Deer Park, Animas mining district, San Juan County, Colorado. For a more particular description of said lode claim reference is hereby made to the location certificate of the same recorded in lode record 60, page 518, and lode record 67, page 459, of the records of said San Juan County, Colorado, in trust to secure the payment of one certain promisory note bearing date September 11th 1888, executed by said Sherwin to the First National Bank of Silverton, Colorado, payable sixty days after date without grace at said Bank, for the sum of two thousand dollars, with interest at one per cent. per month after date until paid; said deed being found of record in the office of the Clerk and Recorder of said County in Book 58, on page 164:

And whereas it was further provided in said trust deed that in case of default in the payment of said note, or any part thereof, or the interest thereon, according to its tenor and effect, the undersigned was empowered and authorized by said deed of trust to sell and convey the said described premises as therein provided at public auction, at the place and upon the notice therein provided:

And whereas default has been made in the payment of said note, and there is now due upon the same eleven hundred dollars upon the principal, together with interest thereon from the 13th day of July, 1889:

Now therefore, notice is hereby given that by virtue of the authority vested in me by said deed of trust, and at the request of the holder and lawful owner of said note, I will on Monday the

20th day of January, A. D. 1890,

at ten o'clock in the forenoon, at the door leading into that room of the County Clerk's office where the books and records of real estate are kept, sell the said specified interest in said described premises at public auction to the highest bidder for cash, for the purpose of paying and satisfying the amount due on said note.

M. W. EMERY,
Trustee.

Dated December 21st, 1889.
First Publication December 21, 1889.
Last Publication January 18, 1890.

NOTICE.

To the Stockholders Alexandra Mining Company.

The annual election for Directors, to serve for the ensuing year, will be held at the office of the Company, St. Bernard Parish, La., on Thursday, January 30, 1890, from 12 m. to 3 p. m.

L. CLAYLAND,
Secretary.

St. Bernard Parish December 21, 1889.
First Publication. December 28, 1889.
Last Publication, January 25, 1890.

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PUBLISHED EVERY SATURDAY
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SILVERTON, COLO.

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INVARIABLY IN ADVANCE.
Advertising rates on application.

SILVERTON RAILROAD COMPANY.
TIME TABLE.

No. 1	No. 3			No. 2	No. 4
A. M.	P. M.	Lve.		Arr.	P. M.	P. M.
7:00	1:00	"	Silverton	"	11:50	6:00
7:30	2:00	"	Burro Bridge	"	11:20	5:30
7:15	2:15	"	Chattanooga	"	11:05	5:15
8:10	2:40	"	Summit	"	10:40	4:50
8:20	2:55	"	Red Mountain	"	10:25	4:35
8:30	3:00	"	Vanderbilt	"	10:20	4:30
8:35	3:05	"	Yankee Girl	"	10:15	4:25
8:45	3:15	"	Paymaster	"	10:05	4:15
8:50	3:25	"	Corkscrew Gulch	"	10:00	4:10
9:10	3:40	"	Ironton	"	9:40	3:50

All trains leave daily except Sunday.

MOSES LIVERMAN,
General Sup't.

LOCAL ITEMS.

What has become of the Toboggan club?

And now they call him Popcorn Johnny.

George Girton has been upon the sick list this week.

F. A. Wingate made a flying trip to Durango this week.

Jas. L. Miller, formerly of this city, has opened up a tailor shop in Rico.

Jim Moffat went out to Denver on Saturday for the balance of the winter.

George Thorp left on Sunday last for a few weeks' visit to his home in Iowa.

Clel Fisher wrenched his knee yesterday while snowshoeing on the foot hills.

W. G. Bradley is packing mail between Silverton and Red Mountain for King & Johnson.

M. Freeman, of Durango, has accepted a position with M. Kruschke. Call and see him.

Capt. Stanley had a slight attack of the grippe this week, but left to-day for the Alexandra mine.

The Amateur Snowshoe club intend filing their articles of incorporation next week—in a snowbank.

The only trouble with Alf. Richards' snowshoes is that he coppers them every time he starts down a hill.

Frank Shallas returned from Durango yesterday and will go up to the Alexandra to-day with Capt. Stanley.

W. C. Harrington, of Colorado Springs, representing a produce and commission house, was in town Thursday.

The new board of county commissioners hold their first meeting this week. The proceedings will be found elsewhere.

The ladies of the W. C. T. U. have adjourned their meeting until January 29, because their mail has been delayed.

The subject of the evening sermon at the Congregational church to-morrow will be "Silverton's Fire and Who Caused it."

Louis Wyman was up from Trimble Springs Monday and left the same day for Dallas, via Pueblo, to look after his stock.

The five year old son of Mr. and Mrs. F. W. Koehler was very sick for several days this week but was much better yesterday.

Dave and Jack Shropshire brought down their wagons from Minnesota gulch this week, and moved their camp and pups to town.

Patrick Hughes has relinquished his homestead entry near Rockwood, and William Butler has filed a pre-emption on the land.

The Silverton Railroad sent their train to Durango on Thursday evening to bring up a carload of men to shovel snow on that road.

At the earnest request of some of our prominent citizens, Crazy Horse left for Durango on Monday. Silverton's horse is Durango's gain.

E. W. Hunt came over from Rico on Saturday, and went to Durango Tuesday to attend court. He intends locating permanently in Rico.

E. V. Hollingsworth has been enjoying the beauties of the Conejos range for the past week. Snowbound on his way home from Denver.

J. W. Taylor was very sick this week with a severe attack of the grippe. He is much better and expects to be down town again in a day or two.

John Burnett left on Thursday via Ouray for Pueblo. After staying there a few days he leaves for New Orleans where he will remain until April.

Mart Stockman has been suffering from a severe attack of the grippe this week, but is out of the doctor's hands and will be out in a day or two.

Geo. N. Raymond passed through town Thursday on his way home from Denver. He had to come via Ouray to get around the blockade on the Conejos.

Jim Clark returned from his home in the valley, where he has been spending the holidays with his family, on Saturday and has returned to the Lewis mine.

John Burnett estimates his loss on personal property by the fire last week at $300; Hollis & Ingersoll's loss will amount to $200, and Mrs. Day's to $120.

The Rainbows are contemplating giving a concert in Durango in the near future.

From word received from Fort Garland on Thursday, our readers will be pleased to learn that Col. M. Breen is much better and is gaining strength rapidly.

At the earnest solicitation of the post-office department at Washington, King & Johnson are now delivering the western mail at this point—that is the letter part of it.

Caspar Malchus will operate the Pioneer barber shop for a few months. James Welch, of Silverton, has arrived and is interesting himself in mining.—Rico *News*.

Whiskey ages two years for one in this altitude, and when we look around at some of the people here, we don't know but that altitude effects them in the same way.

Hollis & Ingersoll, who were burned out by the fire last week, have located with Ed. Page in the Victoria M. & M. company's office, on the corner of Greene and 12th streets.

A. S. Sturgeon left on Wednesday for Durango to stay a few weeks with his relatives. He will probably go down to Farmington for a month or two, before returning to the hills.

W. T. Longnecker, sheriff of La Plata county, has appointed Lieut. B. N. Waters his deputy. Lieut. Waters was formerly a resident of this city and his many friends will be pleased to hear of his appointment.

L. Alexander, of Denver, walked in from Red Mountain on Thursday. Two days late this month. Every time Alex. came around last winter he brought a storm with him and it begins to look as if he was doing the same thing this season.

An exchange says: "It is not generally the girl with the most beaux who gets married first. It is the little gray, demure girl who sits in the corner with one young man and hangs on to him." If this is true there ought to be a wedding or two in town pretty soon.

John Burnett has stored all his goods saved from the fire, for the winter, and will not open any office until spring. He talks somewhat of purchasing a lot on Greene street and building a warehouse, he will need one for his business, and thinks he may as well build as pay rent.

W. G. White, of Eureka, was in town this week interviewing the county commissioners on the question of the assessments for taxation. He did not complain so much that he was assessed too high, but wished to see the other business houses in the county assessed in like proportion.

S. L. Staples was over on Tuesday from Ophir, where he is contracting on the Silver Belle. He tells us there is less snow on the Ophir side of the range than there is here. A burro train is still running to the Single Standard, and the lessees on that propo ty are taking out a nice lot of ore.

Gen. W. B. Tuttle, traveling auditor of the D. & R. G. railroad, made his last trip to Silverton this week, having been transferred to the first division. The General is one of the most affable railroad men that ever visited this section and he will be greatly missed by his many friends.

The Rainbow band will give a grand complimentary concert to the citizens of Silverton on Friday the 31st of January. A number of new pieces will be rendered, among them "The Cloth of Gold." The boys are giving this concert to make some slight return for the many kindnesses shown them by our citizens.

There has been no mail from the east since a week ago yesterday. On that evening three engines were off the track at Cumbres, and the Conejos range has been blocked since. From the latest information we are led to believe that we shall have eastern mail here on Sunday—that is provided the weather is fair.

The Silverton railroad have made good progress during the week in clearing the track, and the train will probably get through to Red Mountain by Sunday night. Fifty men have been working on this end, forty at the Junction and about fifty men from the Yankee Girl and Guston mines have been working at Red Mountain.

One of our enterprising mine managers, a few weeks since, concluded that he could purchase corn brooms much cheaper in Denver than in Silverton. He accordingly sent out for six brooms and instructed the shipper to send them by freight. They were shipped as directed and arrived all safely with a freight bill of $2.65, or just 44 cents per broom. He buys his brooms in the home market now.

Chris Mortenson was down from the Silver Lake Thursday looking for a cook, and took up G. H. O. S. T. Wallace to run the flap-jack department. And this brings to mind a tale we heard about a man sent down from a mine for a cook, and the first cook he met looked a good deal like a blacksmith, and as the man did not know much about cooking, he thought he would try him with the gloves. The cook knocked him out, and he went out and found a ghost of a cook and guessed he would fill the bill. When we saw Chris going up with Wallace, we wondered whether he had been trying these tactics.

Cohen has a new music stand for his drum. He is the architect and Cheney the builder. Cohen informs us it was fabricated on Wednesday, but don't infer from this that this item is a fabrication, because it is not.

Gustav Rab and S. Fleischer were down to hear the Rainbow's play on Tuesday evening, and were surprised to hear such music in Silverton. They say if the boys ever go up to Denver they will make the bands there somewhat weary.

The tale we heard in church last Sunday, of the man who was so addicted to strong drink that he drank a bottle of ink, goes to show how far some men will go in their endeavors to paint the town. It was not mentioned the ink was red but it is not to be supposed that anyone would try to get drunk on black ink.

Charlie Fischer completed harvesting his ice crop on Saturday. He has one thousand tons of ice, averaging from fou rteen to twenty inches in thickness, under cover. Harvesting the crop has cost him considerable money this season, for the past six weeks he has had three men constantly employed cleaning the snow off the pond.

The vocal talent of our town, at the solicitation of M. K. Cohen, has resolved itself into a Choral club. The performance at the opening of the late band fair by the members of the chorus proved conclusively that Silverton possesses sufficient and competent material, and we welcome the Choral club in our midst and wish it success.

James E. Dewey, of Middleton, whom we mentioned last week was sick at the Durango hospital, died on Wednesday of pneumonia, and was buried yesterday. J. E. Dewey was an old resident here and in early days was in partnership with Dempsey Reese. He was a good friend to everyone, and we have yet to hear the first man say a word against him.

Our side partner, H. H. Smith, has been wrestling with the grippe this week, and owing to J. W. Taylor suffering from the same complaint, we have been all alone. In addition to being alone, we have had the blues—we always do when we are alone. If the paper is not up to the mark, put yourself in our place. We expect to have the epizootic ourselves soon.

The Standard M. & M. company are thinking seriously of putting in an electric light plant, to supply the town, in connection with their custom mill. We hope this will not be mere talk. In connection with the mill the electric plant should prove a paying investment. The company have ample funds to put in the finest plant obtainable, and if the business men of Silverton will give the company any encouragement, we feel sure it will be put in.

W. A. Kunkle, one of the boys working for Staples & Casard on the Silver Belle, at Ophir, met with a painful accident last week. While sharpening some drills, a spark set fire to a stick of giant powder in his boot, and before he could get his boot off, his leg was severely burned from his knee to the sole of his foot, and in grasping his knee to prevent the fire from spreading, his hands were considerably scorched. He has been in camp now for over a week and is still unable to place his foot to the ground. This is a warning to men who sharpen drills while they have powder in their boots.

Another poetess has come to light in the San Juan. A poem signed by Amy roached us in the mail on Wednesday. It had no title, and as there was no diagram with it to explain what it referred to, we called it "A Woman's Dream." We cannot say we quite agree with the part of the poem we are able to comprehend, but then, perhaps, the part we cannot understand contradicts what we do. Amy forgot to put a postscript on it, she should not overlook this in future. But we are making fun of Amy, and that is not right. Don't take any notice of what we say, Amy, but send us some more poems, and tell us who you are. It certainly was not right of you to disguise your hand-writing. It makes it so much harder for us to find out your right name.

W. S. Bradley, the mail carrier between here and Red Mountain, arrived in town Monday evening about eight o'clock with the intelligence that Gustav Rab and S. Fleischer, two Denver traveling men were up the Red Mountain road tired out, and unable to make town. A party consisting of the following citizens, Lafe Henry, Hank Sherman, Jesse Stone, Dan McKinnon, A. S. Sturgeon, Harry White, James Clark and Charlie Rew, started out after them. Charlie Rew hitched up his team and drove about two miles and a half up the track, and from there the boys waded the snow for another mile and a half, Lafe Henry in the lead with a lantern, and the rest dragging a toboggan. About four miles from town they found the snow-bound travelers, who were very pleased to see them. The boys brought them on the toboggan to the sleigh, and all arrived in town safely about 10:30. Rab and Fleischer had left Chattanooga about three o'clock and had only made some four miles up to ten o'clock, and it is very doubtful whether they would have reached Silverton before morning, had not the boys gone after them. They had discarded their samples and valise and Harry White went up Tuesday and brought them to town.

Chris Mortenson talks of going to Buenos Ayres in the spring to open a hair bleaching establishment. He says a thousand people are landing there every day and that that city will soon be as large as New York city.

Owing to our getting our toes frosted last Sunday, while turning flip-flops on the foot hills, we have been unable to hold a pencil this week. No eastern mail has come to hand, and our scissors are rusting in their scabbard, our paste pot, or rather the paste, is frozen solid. We are short on roller composition, and eating frozen paste and trying to perauade yourself it is ice cream may suit some agricultural editor, but this air is too light and this climate too icily cold for us to deceive ourselves. We expect to have the grippe pretty soon in that part of our anatomy opposite our back.

McGinty's fall, which has gained a world wide reputation, was nothing compared to some of the flip-flops performed by the Amateur Snowshoe club upon the foot hills last Sunday afternoon. Some of the boys were expert snowshoers, and some were expert acrobats; as for ourselves, our life long experience in the ice cream business made it an easy matter for us to freeze our toes, and so get knocked out before the blessing. It is useless telling you about the expert shoers, they did not cut any figure, but the figures some of the others cut were immence. Alf. Richards fell down more hills than anyone and took the booby prize. But, for graceful and sylphlike attitudes, and for poetry of motion, commend ts to John Pruett; the way in which he could spring from his shoes, land gracefully on his head and then turn a complete summersault, would have made a sphinx smile. He performed this feat several times, without the use of a pole, and was awarded the first prize, a pair of metal ear muffs. The others fell, as occasion required, in more or less graceful attitudes, and came down hills on various parts of their bodies from their ears down. The whole entertainment was one thoroughly enjoyed by those present, and all agreed that snowshoeing as a pastime was entitled to the first place in the list of winter sports in the San Juan.

A Woman's Dream.

Alas, what love we women waste
Upon the things, the world calls men.
Perchance, sometimes, we love in haste,
But oh, *we* bear the burden then,
And carry our great grief thro' life,
And smile upon a smiling race;
Our hearts are rankl'd with a strife
That's not reflected in our face—
Our die is cast. But when in youth
We love as only women can,
And think that all the world is truth,
And truth another name for man—
'Tis sad to find the love we pay
To one who fills our fondest prayer,
Is like some sunbeam's choicest ray,
All wasted on the desert air.
"This world's a world of life to us,"
The men all say, and onward go.
"This world's a world of love to us,"
We thought—but find it is not so.
The love we give is ne'er returned,
Our smiles are met with looks of ire,
The fire that in our bosom burned,
Was but our life blood's funeral pyre.
The laws of God all dimly fade;
The sins of men are all forgiv'n;
But one false step by woman made
Is ne'er forgot on this side heav'n.

AMY.

Card of Thanks.

Mr. and Mrs. A. Day desire to express their heartfelt thanks to the citizens of Silverton who so kindly assisted them to save their effects from the fire on Friday last.

Advertised Letter List.

Letters remaining uncalled for at the postoffice at Silverton, San Juan County, Colo, for the week ending January 13, 18890.

Bee, Mrs. Katie	Kegan, Mrs. H. I.
Baumeister, Joe-6	Newhall, W. A.
Cunningham, Jas.	Singleton, Jno.
Cooper, Frank	Shively, Wm.

Persons calling for any of the above letters will please say "advertised."

M. HOLLINGSWORTH, P. M.

Business Locals

Use Pride of Denver Soap.

Always use Roads' Crackers.

Just received, a new line of dry goods, gents and ladies furnishing goods at

BREEN & LOWENSTEIN'S.

For oysters, fresh mountain trout, fresh mackeral, white fish, California salmon, and all kinds of fish call at

ROHRIG & KRAMER'S.

Joseph Bordeleau has just received a new line of fancy Queensware suitable for holiday presents. Call and see him.

Rohrig and Kramer are receiving all kinds of fresh vegetables, young onions, and lettuce every day from their own ranch.

A car of new California and Eastern can goods and a new stock of groceries just received at

BREEN & LOWENSTEIN'S.

Turkeys, prairie chickens, quail and all kinds of game at Rohrig & Kramer.

A new line of fancy standing and hanging lamps just received at Bordeleau's.

For miners supplies, nailed boots, California underwear, blankets, and gloves go to BREEN & LOWENSTEIN'S.

The best steaks and mutton chops at

ROHRIG & KRAMER'S.

GreaT ClearancE SalE

Having taking our yearly inventory we shall until our spring stock arrives.

GREAT REDUCTIONS!

In all departments goods will be sold

LOWER THAN EVER.

We Have Received Lots of

NEW GOODS!

And they will be included in the great

Clearance Sale.

M. KRUSCHKE,

Dry Goods, Clothing and Shoes.

MRS. O. BALLOU & SON,
DEALERS IN
Fruit, Nuts, Cigars, Tobaccos & Confectioneries.
We keep constantly on hand a Complete line of Lovell's, Munroe's and Seaside Libraries.
WE Will take subscribtions for any Periodicals published in the World.
Our stock of Confectionery is the BEST and PUREST that Money can procure.
Silverton, - - Colorado.

H. G. Prosser & Co.

FURNITURE AND UNDERTAKERS.

WE ARE NOW

Showing The Largest Stock Of

Bedroom Suites, Chiffonieres, Lounges, Parlor Suites, Easy Chairs, Etc., in the City, at Lowest Prices.

Silverton, - - Colorado.

J. M. PRUETT,

Practical

Watchmaker and Jeweler.

All work guaranteed Satisfactory.

Greene Street, Three doors below STANDARD office.

BAYLY & THORP,

Druggist and Stationers.

WALL PAPER, PAINTS, OILS, VARNISHES, FANCY GOODS, ETC.

Wholesale Liquor Dealers

AND SOLE AGENTS FOR

ANHEUSER BEER

Silverton, - - Colorado.

WATSON BROS.,
PROPRIETORS OF
Parlor and Metropolitan
Restaurant and Lunch Counter.
At all Hours SHORT ORDER At all Hours.
Everything First-class.

A MOTHER'S LULLABY.

Come nestle your head on my bosom, love,
O, sweet, winsome babe that you are!
With eyes like the sky that is glowing above,
And hair like the sheen of a star.
Lie close to my heart while I sing to you
A song of true happiness born,
For the sun has slipped out of the sky-roof blue,
And the birds to their tree-couches gone.

The flowers have folded their petals in rest,
The stars hang their lamps in the sky;
A breeze, with the mark of the rose on its breast,
Goes dreamily wandering by.
The woo, baby moon, like a sickle of gold,
Is low among the far purple hills;
The cricket, that sly, little turbulent scold,
Her gossip still noisily trills.

All things go to rest, save the crickets and wind,
To sleep till awoke by the sun.
When the glad little song-birds new madrigals sing,
To tell that a new day's begun.
So close your pink eyelids in sleep, my dear,
My darling one, pure as a star,
And dream happy dreams till the morning dawns clear,
And the shadows of night flee afar.

—*E. B. Lowe, in Good Housekeeping.*

CONQUERED BY SNAKES.

A Gang of Outlaws Hemmed In by an Army of Serpents.

The close of the civil war left some portions of the South in the hands of desperately wicked men. Particularly was this true of parts of Missouri, Mississippi, Arkansas, Louisiana and Texas. While the Confederate troops had disbanded, and before the Federal could occupy the country, the guerrilla and bushwhacker were there. I had a district assigned to me along the St. Francis river, Arkansas, and the total strength of my command was twenty-eight men.

In my territory, says a writer in the New York *Sun*, as I soon ascertained, were some of the worst desperadoes in the West. All had belonged to guerrilla bands, and all had refused to come in and surrender at the close of the war. The meanest, if not the worst, man in my district was Captain Dade. He was in command of a dozen outlaws. I sent the desperado word to come in and surrender. He sent me word to go to thunder. I notified him in writing that if he did not come in by a certain date I should declare him an outlaw in the district, and proceed to hunt him down and kill him. He replied by word of mouth that if I did not surrender to him on or before the same date he would proceed to exterminate my command. I gave him ten days, having not the slightest hope that he would come in. On the morning of the eleventh day I had a call from a native, about twenty-five years old, who announced himself as "Dan," and who said he had called on a little business matter. I supposed it to be about a permit, or to make complaint, but after a bit he observed:

"Captain, them ten days ar' up, an' I reckon Bill Dade hain't shown hisself."

"No, he hasn't come in."

"An' he won't, nuther."

"I don't expect he will."

"Wall, ar' you gwine ter let him an' his gang keep up thar whoppin' an' shottin' an' killin'?"

"No. Bill Dade and his gang are now outlawed by proclamation. I am going to hunt them down and wipe them out."

"Right off, Captain?"

"As soon as I can arrange for it."

"You kin arrange right now, Captain. That's what I'm yere fur. How much a head if I wipe out t[illegible]de gang?"

"How many are [illegible]?"

"Just five, an' ev[illegible]ne of 'em has committed murder an' v[illegible]uss a dozen times over."

"I can't offer a reward for their heads. I have outlawed them, and the military authorities have the right to shoot them on sight."

At that moment word was brought me that Dade's gang had come within two miles of headquarters and murdered two of the command who were stationed at a freedman's rendezvous to preserve order. Half an hour later the man called Dan departed on his man hunt, and he had my agreement in writing that neither the law nor the military should trouble him for shooting down any of the gang.

This daring man-hunter stepped into his canoe and paddled up the river about five miles. Then he entered a bayou to the right, and carefully made his way to a bit of high ground about two miles from the river. All the low lands were then under overflow for ten miles back, and he knew of but one spot where the outlaws could rendezvous. This was a larger island, about half a mile away, and bearing a log-house and some farm improvements. At this time the place could be approached only by water, and Dade was not bluffing when he defied me. It is doubtful if any offer of reward could have induced a Federal soldier to follow Dan. The overflow had driven the reptiles to take refuge in the bushes and trees, and as his canoe moved in and out the hiss of the cotton-mouth and the warning of the rattler came to his ears almost continuously. Half a dozen times in the course of half an hour hideous serpents let go of the branches and fell into the water with a loud splash and swam for the canoe, perhaps hoping to be carried to the high ground, and at such times the man had to lay down his paddle and beat them off with a pole. There was danger with every rod of the journey, and the semi-darkness and the utter stillness would have taken the courage from an average man.

Dan did not land upon the island, but made the circuit of it in his canoe, and satisfied himself that no sentinel was established here, as he suspected might be the case. If one had been posted there he had been forced to abandon his position by the thousands of reptiles which had been driven in for shelter. Any craft seeking the other island must pass here, and any craft making for the river from the other island must use this channel. Satisfied that he had left no danger behind him, and that his way of retreat was open if he were forced to fall back, Dan cautiously proceeded on his way. It was not yet mid-afternoon. It was a hot summer's day, and there was absolute silence in the great swamp. The outlaws, returned from their raid, would expect pursuit, and, therefore, be watchful. Dan was known to all of them, and the instant he was discovered he would be shot down. He knew every foot of the island, and as he neared it he had his plans all laid. Making a wide sweep by forcing his canoe where it seemed hardly possible for a serpent to go, he landed on the north side of the piece of land, half a mile from the hut. As soon as he had hidden the craft he made his way toward the clearing, moving with all the caution of an Indian on the war-path. He said he saw more snakes that day than he supposed the whole country held. He touched them time and again, and a score of times he came within an ace of being bitten.

When Dan reached the edge of the clearing at a point where he was close up to the cabin he was surprised to find everything quiet. There was a smoldering fire at the door, and plenty of evidence that the men were near. If they had set a watch it was down at the landing. After waiting for half an hour Dan made two important discoveries. One of the men came to the door, yawned, threw up his hand, and looked about him in a sleepy manner. There was a jug of whisky outside the door, and after taking a long drink the fellow staggered over to the fire, threw on a few faggots, and then lurched into the house. The other discovery was that the back water in the bayou was rising. He got the hint from the action of coons, rabbits and the snakes. They were pressing toward the higher ground on which the house stood, and none of them seemed to mind his presence.

Taking advantage of such a shelter as was afforded, and being ready at any moment to open the fight, the man finally reached the cabin. It was a stout structure, with a heavy door opening outward. On the plank floor within, sprawled out in reckless fashion, were five sleeping men—Captain Dade and his outlaws. They were not only sleepers, but each man was blind drunk.

Guns, revolvers and knives were lying about on the floor. Dan could have gone among them and stabbed each one to the heart without risk, but he was not coward enough for this. He was thinking that he would bind the fellows tight and fast, remove their weapons, and then bar them in until he could return for help and capture the lot for the gallows-tree. This plan would have been carried out but for one unlooked-for circumstance. The snakes had begun to take possession of the cabin. A dozen rushed in through the open door in quick succession, and others climbed up to the open window, and either fell to the floor or squirmed along the logs. Here was safety from the rising waters. Their fear of man was temporarily benumbed by the other danger, and cotton-mouth, rattler and moccasin passed the man at the door without thought of using their deadly fangs.

Said Dan: "I carefully pulled the door to, and braced it shut with a log. Thar was a wooden blind to the window, and this I also shut and braced. Thar was room enough under the door for more snakes to get in, but it would have taken the strength of five sober men to break it down. I calkerlated as how that room would be holdin' about a hundred snakes when the fellows began to rub their eyes open; and I felt sure I could leave the job to them to finish."

He had to wade in water knee-deep before he got back to his canoe, and it was after daylight next morning when he came to my headquarters to make his report and ask for a detail of men to go back with him.

"What do you suppose has happened by this time?" I asked.

"Dead, sir, every man of 'em," he replied. "Them snakes got over their scare in about half an hour, and the first man who moved to get up had pizen shot into him like a streak of lightning. Thar'll be five corpses thar to be identified, and thar'll be some property to be divided up."

I concluded to go along with the detail, and about noon we reached the place. We had to kill a score of reptiles before we could land. The door and blind were as Dan had left them. He advanced alone to the door, threw it open, and, after a hasty glance inside, came back to us with his face as pale as death.

"Dead, I suppose?" I queried.

"All in a heap, sir, and thar's mo' than a thousand snakes inside!"

A guerrilla outlaw named Chambers, who had sworn to kill me, came in four or five days after the death of Dade, and begged me to permit him to surrender and go home.

"But you have threatened my life," I said.

"Sartin I hev, Captain; but I've bin a fool. I didn't know what you was. When a man kin handle sarpints and outlaws like you hev done, what's the use a kickin' agin him. I want to surrender and put an end to this war."

Two weeks later there wasn't a "hider out" in my whole district, and it was safe for men to go everywhere. The snake business, which Dan insisted on giving me credit for, was of more help than a regiment of Federal infantry.

TOM FITCH'S PASS.

It Saved Another Man, But Old Tom Was Robbed Himself.

They were roasting chestnuts, a lot of old-timers, the other night, says a writer in the San Francisco *Chronicle*, and many of the classic stories of California were repeated. One was quoted that Tom Fitch used to tell about himself, but it reflected great glory upon him, and one old mean curmudgeon said it was not the true version of the story at all. Tom Fitch told it his way, he said, but that wasn't it. At that time Tom was in the interior, and this young fellow, rather green, came through on a trip. Tom got hold of him and filled him full of all sorts of stories that made the young man's hair stand on end. At last they got to stage-robber stories, and he had some blood-curdling ones; but Tom made the young fellow believe he was all-powerful, even with the stage robbers. He was giving the stranger some letters of introduction to friends in other places, when the stranger, after some hesitation, said: "Say, can't you give me a pass?"

"A pass!"

"I mean a pass through the country; something I can show the highwaymen when they stop the stage, and get safe through."

"Why, certainly."

And Tom wrote out an order. "Pass the bearer without molestation. (Signed) Tom Fitch." It happened that Tom had to go on the same stage as the young fellow, and it was "stood up" in due course, as Tom had represented it was likely to be. "Throw up your hands." Up went every body's hands, Tom's included. When the robbers reached the young stranger he spoke up: "Who is the captain of this band?"

"Get out, young fellow! You keep your hands up."

"I want to see the captain of this band."

"You shut up. I'm captain enough for you."

"I have a paper for the captain of this band."

"Let him take his hands down, Bill," said one of the robbers.

"No, you don't. Where is this paper?"

"It is in my waistcoat pocket."

The robber put his hand into the waistcoat and found the paper—"Pass the bearer without molestation, Tom Fitch."

"All right, young feller, you can pass."

Then they came to Tom.

"Hold on," said Tom, as they began to search; "hold on."

"What's the matter with you?"

"You can't rob me."

"We can't; why?"

"I'm Tom Fitch."

"Get out; that's too thin. Stand steady. That'll do."

And they took all he'd got and went on.

"I wish I'd written a pass for myself," said Tom. But it was too late; they'd cleaned him out.

Solidified Petroleum.

A successful Russian method of solidifying petroleum consists simply in adding to the heated oil from one to three per cent. of soap, which dissolves, and, on cooling the mixture, becomes a cement-like mass, having the hardness of compact tallow. This forms a convenient and economical fuel, which is hard to light, burns slowly and without smoke, but develops much heat, and leaves about two per cent. of a hard, black residuum.

LO, THE POOR INDIAN.

Strength of the Various Indian Tribes and Location of Their Agencies.

Over one-fourth of the Indians now living are included in what are known as the "five civilized tribes," which live in the Indian Territory, and whose names and numbers are, according to the Chicago *Inter Ocean*, as follows: Cherokees, 23,000; Choctaws, 18,000; Chickasaws, 6,000; Creeks, 14,000; Seminoles, 3,000. The other tribes are all small and distributed under the various agents on reservations in twenty-three States and Territories. In Arizona there are three agencies—the Colorado River Agency, under which are the following Indians: Mohaves, 769; Chimehuevis, 202; Yumas, 800; the Pima Agency, which has Pimas, 4,100; Maricopas, 310, and Papagos, 2,102; the San Carlos Agency, with 1,637 White Mountain Apaches, and of Apaches of six other tribes, 3,290. There are also in Arizona of Indians not under an agent, 1,343, of the Mohave and other tribes. In California the tribes are distributed as follows: Hoopa Valley Agency, Hoopas, 460; Klamaths, 213; Mission Agency, Serranos, 490; Dieguenos, 872; Coahulla, 597, and San Luis Rey Indians, 1,153; Round Valley Agency, 551 Indians belonging to the Ukio and other Klamath tribes; Tule River Agency, of the King's River and other bands, 679; also of Indians scattered throughout the State and not under an agent a total of about 6,235. In Colorado there are at the Southern Ute Agency, of the Moache and other Utes, 995, and Jacarilla Apaches, 785. Dakota has at the Cheyenne River Agency, of Blackfeet and other Sioux, 2,783; mixed bloods, 153; Crow Creek and Lower Brule Agency, Sioux, 2,252; Devil's Lake Agency, Sioux, 928; Chippewas, 1,126; Fort Berthold Agency, Arickarees, 501; Gros Ventres, 502; Mandans, 286; Pine Ridge Agency, Ogalalla Sioux, 4,197; Cheyennes, 933; mixed bloods, 462; Rosebud Agency, Brule and other Sioux, 7,160; Sisseton Agency, Sioux, 1,579; Standing Rock Agency, Uncapapa and other Sioux, with a few of mixed blood, 4,345; Yankton Agency, Yankton Sioux, 1,777. Idaho has at the Fort Hall Agency, Bannacks, 490; Shoshones, 1,040; at Lombi Agency, about 554 of both those tribes; at Nez Perce Agency, Nez Perces, 1,192, and of Indians not included in the agencies, the Pend d'Oreilles and Kootenais tribes, numbering about 600. Aside from the civilized tribes, there are in Indian Territory, at the Cheyenne and Arapaho Agency—Cheyennes, 2,058; Arapahoes, 1,072. Kiowa, Comanche and Wichita Agency—Kiowas, 1,179; Comanches, 1,046; Apaches, 332; Caddos, 523; Wichitas, 192; Towaconies, 157, and belonging to the Delaware, Keechie and Waco tribes, a total of 188 souls. There are also at the Osage Agency, in the same Territory—Osages, 1,501; Kaws, 193; Quapaws, 74. Pawnee and Otoe Agency—Pawnees, 918; Poncas, 523; Otoes and Missouris, 355; Tonkawa and Lipan Indians, 85. Quapaw Agency—Shawnees, 83; Miamis, 64; Modocs, 91; Ottawas, 111; Peorias, 154; Quapaws, 104; Senecas, 247; Wyandottes, 267. The Sac and Fox Agency in Iowa is occupied by 380 descendants of these once famous allied tribes. The agency of the same name in Indian Territory has 523 Sac and Fox Indians; also, Shawnees, 723; Pottawatomies, 413; Kickapoos, 325; Iowas, 89, and of other tribes, 150. The Pottawatomies and Great Nemaha Agency, in Kansas, has Kickapoos, 283; Iowas, 145; Pottawatomies, 474, with about 155 Chippewas and others. Michigan has, at Mackinac Agency, of the various Chippewa tribes, including some Ottawas, 7,216. and Pottawatomies, 76; and Minnesota, at the White Earth Agency, of Chippewas, 4,533, and Pillager Indians, 1,554. In Montana there are at the Blackfeet Agency, including Blackfeet, Blood and Piegan Indians, 1,927; at Crow Agency, Crows, 2,436; at Flathead Agency, Pend d'Oreilles, 806; Kootenais, 482, and Flatheads, 738; Fort Belknap Agency, Gros Ventres, 904; Assiniboines, 816; Fort Peck Agency, Yankton Sioux, 945; Assiniboines, 827; Tongue River Agency, Cheyennes, 819. Nebraska has at the Omaha and Winnebago Agency, Omahas, 1,160; Winnebagos, 1,210; at Santee and Flandreau Agency, Poncas, 203; Santee Sioux, 1,094 In Nevada, at the Nevada Agency, there are Pah-Utes, 891; Pi-Utes, 150, and at the Western Shoshone Agency, Shoshones, 296; Pi-Utes, 115; while of Indians wandering from the reserves in the State there a total of about 6,500. In New Mexico the Mescalaro Agency enumerates Mescalaros, 437; the Navajoe Agency, Navajoes, 17,838; Moquis Pueblos, 2,203, and the Pueblo Agency, Pueblos, 8,337. In New York there are still some remnants of the old historic tribes, scattered on several small reservations in different parts of the State, a total of 4,936 Indians, divided thus: Senecas, 2,702; Onondagas, 326; Cayugas, 176; Oneidas, 364; Tuscaroras, 454, and St. Regis Indians, 914. In North Carolina and Tennessee and adjoining States there are still some 3,000 Cherokees scattered about In Oregon there are at Grand Ronde Agency of the Umpquas and other tribes, 390; at Klamath Agency, of Klamath, Modoc and Snake Indians, 925; Siletz Agency, remnants of a large number of tribes, amounting to 608 in all; at Umatilla Agency, of Walla Wallas and others, 984; Warm Springs Agency, of different tribes, 857, and roaming on Columbia river, some 800 Indians of different tribes, for whom no agency has been provided. There are no Indian agencies in Texas, but there are a few Alabamas, Cushattas and Muskokees scattered through the State, making a total of about 300. In Utah the Uintah and Ouray Agency provides for 2,041 Utes of different bands, but there are some 400 or more in roaming bands through the Territory, not under agency jurisdiction. In Washington Territory the Colvill Agency has the oversight of 3,083 Indians of the Kalispels, Spokane, Nez Perce and other tribes; the Neah Bay Agency has 793 Makahs and Quillehutes; the Quinaielt Agency has tribe remnants belonging to the great Selish family mainly; 645; the Nisqually and S'Kokomish Agency, 1,693; the Tulalip Agency, 1,278; the Yakama Agency, 1,741, besides some 2,000 Yakamas not kept on any reserve. Wisconsin has under the Green Bay Agency Oneidas, 1,732; Menominees, 1,310, and Stockbridge Indians, 134; under La Pointe Agency, Chippewas, 4,042; Pottawatomies, 100, besides some 930 Winnebagos and 280 Pottawatomies outside of agency control. There are in Wyoming at the Shoshone Agency, Arrapahoes, 988; Shoshones, 876. And, finally, there are in Indiana and Florida some Miamies and Seminoles, with total number estimated at 892, and in Maine about 410 Old Town Indians. The above summary is condensed from the tables of population given in the report of the Commissioner on Indian affairs for 1887.

Danger in Lead Pipes.

It is claimed to be proven, beyond all doubt, that waters which circulate or stand in leaden pipes or vessels, not only take up particles of lead through mechanical action due to friction, but attack the metal, the result of this being generally lead carbonate. According to the most eminent authorities in this line minute quantities of lead thus introduced into and accumulating in the system, must rank among the causes of anæmia and defective nutrition in large towns.

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THE ANGELUS.
Costliest Picture in the World.

This masterpiece by the great French painter, Jean Francois Millet, was purchased at auction in Paris last summer by the American Art Association of New York. The cost, $116 00 and duties, amounting in all to about $120,000, was nearly $400 a square inch, as the picture is only 18x21 inches in size. This is the highest price ever paid for a single picture.

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VOLUME VIII — SILVERTON, COLORADO, MAY 15, 1897. — NUMBER 27

MINES AND MINING.

A Large Boarding House for the Silver Lake Mine.

Products of the Winter's Work is Now Being Brought to the Market--What Some of San Juan Producers are Doing.

Foltz & Higginbotham are packing ten tons daily from the Royal Tiger. This mine is showing up a fine lot of ore and is steadily improving.

Last Thursday a pack train took up supplies to the Bandora and will begin to pack from that property, as the trail is now open.

Thomas Annear and others are securing a lease on some property that they expect to work quite extensively this coming summer.

The Shenandoah will start to ship next monday. Mr. Bennett, the leaser, intends to ship three cars per week during the season.

About 25 tons of ore was brought down from the Lady Ellen the fore part of the week and taken to the San Juan sampler for treatment.

Sam Beaver and Jack Griffin, leasers on the Pearl mine made a shipment the first of the week of about four tons. The ore running about $50.00 per ton.

Gus Heis and Billy Sheibley who have been driving a crosscut for the K. of P. vein, up South mineral expect to reach the vein this coming week. They are in about 150 feet.

There's a great deal of activity up on Solomon mountain, in the vicinity of the North Star mine. Louis Wyman has 120 pack animals besides a number of teams bringing down ore from properties located there.

The leasers on the Big Giant have 1500 sacks, of ore out ready to be packed down as soon as they can secure a pack train. The ore is heavy in lead and with the others values will net about $45 per ton.

About two tons of supplies were taken up to the Gold Nugget by Matheson & Purdy, Thursday, and will begin work on this property. Look out for a good showing this year in Maggie gulch.

Henry Damschroder came up from Durango this week. He intends to do some work in Ice Lake basin, also in the Bear Creek district. He says he will ship out some of the richest gold ore from his lease that has been seen in Silverton for many-a-day.

James Collins came in from Bear Creek yesterday and reports prospects in that section as looking bright. The cross-cut tunnel being run to the dis- of 800 feet to cut the Gold Bug and and Repeal loads is not yet completed but only lacks a short distance. He also says quite a number of miners and prospectors are coming into that camp.

A party of six miners left Fort Collins Monday for Bear Creek, near Silverton, to work the claims of the Robertson Gold Mining Company of Fort Collins. These claims are gold bearing and promise to develop into productive mines. —Ex.

Kearney Bros. have 75 burros packing ore from the Aspen mine. This propery will ship a car a day of high grade lead ore. The ore bodies are larger and better than in time past. If the market price of lead goes to $3.50 there a good many lead properties in the district that will be worked this summer.

W. J. Thompson & Co., started to ship a few cars of ore from the Independence group near the Burro Bridge. This group of claims is proving one of the best of those opened up last winter. It goes to show that it pays for the property owners in our district to do development work on their claims before offering them for sale. No man wants to buy "Just a hole in the ground" or an open cut, good development work showing up ore bodies, is what will sell mining property. Go to work boys, quit carrying around your rich specimens, and you will induce capital to help you out.

The Silver Lake company is excavating for their large boarding house. The building will be 90x100, five stories high including the basement. It will be heat by steam, there will be all the modern improvements such as bath rooms, barber shop and reading room, the sleeping apartments will be so arranged that not more than four men can sleep in one room. These rooms will be large and airy, having perfect ventilation. The sanitary conditions will be as perfect as it is possible to make them. When finished it will be the best constructed and with more of the modern conveniences than any other building in America built for the miners to occupy. This shows that Mr. and Mrs. Stoiber have the interests of their miner's welfare at heart, and propose to give them accommodations excelled by none. With the enlargement of the mill there will be a good many thousand feet of lumber used; furnishing employment to a large crew of carpenters for months to come.

Last Thursday 500 sacks were packed up to the Butler group on Bolder mountain. The owners intend to ship 10 cars of 100 oz. grey copper ore from this group, and may follow it up with many more equally as good. The claims are all patented; owners are Geo. Reed, Louis Smith, Rody Canahan and J. Butler. Their main workings consists of a 300-foot cross cut and a 120-foot drift on the lead from point of intersection of crosscut with the lead. From the point of crosscut cutting the vein to the breast of drift, they have had good ore. The lead is a very wide one, in most places their tunnel has only one defined wall and in some places an undefined wall. The lead must be from 6 to 9-feet wide. They are taking out an 8-inch pay streak that runs 30-per cent lead 100 ozs. silver and 10-per cent copper. It also carries a few dollars in gold, from 2 to 6-tenths per ton. The first car they will ship to San Juan sampling works, the balance to the Omaha Grant at Durango.

Dr. Potts came in from Colorado Springs on Thursday's train. He reports a great deal of inquiries for San Juan properties, and he says the bottom has fallen out of the Cripple Creek boom, that there are 1,000 idle men in the district. He hopes to persuade his company to sink a 600-foot shaft on the Little Ray in Deer Park. It will take a good plant to do this as there is a good deal of water to contend with. They will have to have a hoister and pump that will do the work satisfactory. He does not know whether they will use air drills or not in sinking. As the Little Ray is one of the best properties in Deer Park, Dr. Potts is sanguine of proving this by work, one of the richest gold ore bodies in the state. Dr. Potts informs us that next week he intends taking up a lot of supplies, and putting on a force of men. The Little Ray has in the past produced some very fine gold ore and with systemaeic development will become, we predict one of the richest gold producers of the San Juan. It is located in that quite famous gold belt of Deer Park.

The Champion Group on Sultan mountain consists of two full claims. The quartz is very fine grained containing a good deal of spar. The lead matter is from 2½ to 5 feet in width and the pay streak from 3 to 8 inches wide. This pay streak is as fine a grade of grey copper as has been found on Sultan mountain. Ton shipments have been made by the owners that run 142 oz. Silver 5-10 gold, 28 per cent. copper and 230 oz. silver, 4-10 gold, 27 per cent. copper, while numerous tests have been made that went from 530 to 850 oz. silver. The owners have done a great deal of development work the past winter, driving north on the lead from the bottom of the 65-foot shaft that is in the upper tunnel. They have driven 70 feet on the lead taking out about 4 cars of 65 oz. silver ore. The gold and copper values will make the ore net them over $40 per ton. This property needs capital to develop it. There is a 185-foot drift on the lower end of the Champion that is in very fair ore. If this was driven in some 400 feet further there is no doubt some very fine ore bodies would be exposed, besides it would cut the main ore chute over 250 feet in depth. The ground is easily worked and the owners hope to make a deal on the property this season. The owners are Brice Patterson, Andrew Johnson aud Andrew Ereckson.

Yesterday morning there was quite a commotion on the streets of Silverton, our reporter asked the cause thereof and was told that the "No-water" club was taking an outing and would visit Eureka. Corn Fed, was riding ahead on a white steed of the Arabian breed, then came Boquet Bob, loaded to the guard with bottles labled No-Water, Al. 'The Sweed' tried to look dignified, as his Mexican charger pranced and Chinaman Lee and Little Mike brought up the rear perched on two slightly spavened racers.

DID YOU HEAR ABOUT

All the Latest Local News of the Town and County?

Fourth of July at Silverton—1897.

Remember the boys will play a game of baseball just below town to-morrow.

Prof. Cunningham and family moved to the Iowa mill the latter part of the week.

Clint Bowman came in from San Juan county, N. M. with his herd of stock, where they have been wintering, last Tuesday.

Within a week no snow will be left on the mountains below timberline, save in the gulches that are perpetually filled. This means that summer is at last with us.

Wm. Spur arrived from Denver last Wednesday, sound and well, but minus an eye. His old friends in Silverton were all glad to see him and gave him a royal reception.

'Tis six week's late,
This summer fair,
This fair belated weather.
That now it's here,
They all will state,
'Tis better late than never.

Abe Waldo, came in from a trip to the Upper Animas and reports the snow very deep, especially where slides have run during the winter.

Tennie McKinney went up to the Danver mine, Cement creek, Thursday, and if everything looks favorable the company will put on a larger force in a short time.

The members of the Woman's Whist Club are requested to meet at Mrs. E. Ballou's residence, Saturday May 22nd, at 3 p. m. MRS. E. BALLOU, Pres.

John Perrung's place, which is in the alliance formed to close, has been given an option to open his bakery from four to six on Sunday evenings, that fresh bread may be had.

Sam Staples left Wednesday for Ridgway where he will make his future home near that place. His intention is to dispose of all his property here and go into the cattle business.

Chas. Shepard's express team ran away Wednesday, up Greene street. They were engaged in hauling furniture to the new restaurant just above Casad's blacksmith shop. Before doing any damage they were lassoed by an expert cow-boy.

Sam Brown; special police, did a little shooting last Wednesday night but failed to wing his bird. He had been watching a suspicious character for some time, when his man went down the alley back of Ludwig's dance hall, and was noticed trying to effect an entrance in one of the houses, Brown called to his man to halt, whereupon he started to run up the alley when the shot was fired, Crossing the road, the subject ran up the other alley, until he came to Cato's blacksmith shop where he disappeared.

PURELY PERSONAL

Caught by Our Local Gatherer as They Come and Go.

—E. Howard, was down from Eureka Saturday.

—Mrs. E. G. Stoiber went to Durango Wednesday.

—L. J. Chapman, of Creede visited our city Sunday.

—Wm. Sullivan, came in from Denver last Saturday.

—C. A. Johnson, of Durango came in Tuesday to attend Court.

—Mr. B. A. Taft took a trip to the Smelter City Wednesday.

—S. E. Herr, was a visitor in Silverton this week, from Durango.

—Chas. Newman came up from the berg in the valley last Monday.

—N. P. Fetterman, of the Silver Lake mine was in the city this week.

—Chas. Langley, of Durango was an arrival on Sunday's incoming train.

—Geo. Nunnelly is at the Iowa mill having returned from Hite, Utah this week.

—F. K. Seaman, the mill man for the Gold King mine arrived from Denver yesterday.

—Johnnie Melton, took a flying trip to Montrose, Thursday, via. Ouray. He will return to-morrow.

—T. J. Tarsney, District Attorney came up from Durango Tuesday to preside in Court at this place.

—Supt. John A. James of the Omaha & Grant smelter was up from Durango on business with that industry.

—Judge James L. Russell came up from the Smelter City and opened Court in Silverton last Tuesday morning.

—Miss Kittie Welsh's uncle(?) J. H. Graham was up from Durango this week. Those smiles capped the climax.

—Frank Gregg, after a winter's wandering in Texas returned this week and went to work on the Bandora mine.

—B. M. Ritter, Reese McCloskey and E. S. Whitehead, three of Durango's lawyers came in Monday to attend Court.

—Anton Schreiber, a mill man of considerable reputation is again in Silverton, (this time to stay he says) after visiting in "bleeding" Kansas the past seven months.

—Judge Terry came in Thursday with a four mule team and wagon, from Denver and will use them for hauling concentrates from the Sunnyside mill to Eureka.

—Dr. R. L. Taylor departed for Denver last Tuesday after a short visit in Silverton. He will stop over at Colorado Springs for a day or two to visit a distant relative.

—B. B. Galvin, after a pleasure trip to California, Arizona and other western states for the past month returned to Silverton the first of the week. While in Los Angelos he met Alex Nicolson, Chas. Stockman, Geo. Lacy, Mr. and Mrs. Geo Bailey, O. P. Posey and a Mr. Ferrell, the latter party being once implicated in the Grand Hotel bar robbery, about eighteen months ago. In Maricopa, Ariz., he met Perry Williams, Silverton's railroad agent during the years 1894-5. He is running the eating house at the junction of the Southern Pacific and Phoenix & Maricopa branch. Mr. G. looks none the worse for this trip as he looks fifteen pounds heavier.

—W. Z. Kinney goes to Durango tomorrow to meet Mr. Cyrus W. Davis secretary and treasurer of the Gold King mine.

—John Niswogner and John Miller were two jurymen from the Upper Animas, who were in town Tuesday and Wednesday.

—In the mentioning of "Hank" Damschroder's name, as returning from Durango this week, the devil of the office started to whistle "The cat came back."

To Advertise Colorado.

The commission in charge of Colorado's exhibit at the Tennessee exposition have decided to send this personal letter through the entire press of the state, in order that every place and every person may be quickly and assuredly reached. Letters have been addressed to each county setting forth the advantages that will accrue from generous advertising of our resources. These letters have explained the manner of the exhibit to be a series of daily lectures, illustrated with stereoptican views descriptive of scenery, public and private buildings, resorts, mining, agriculture, etc. These views are colored by the artist in conformity with the natural objects as presented by photographs. This is acknowledged to be the most pleasing and effective mode of up-to-date advertising.

The commission desires by this present letter to reach all who have not yet been identified with the movement, and to them we wish to say, you are earnestly and cordially requested to have prepared the proper stereoptican slide views of your special enterprise, be it a fine building, vista of cultivated land, herd of cattle, horses, sheep, a smelting plant, a lumber yard, and. above all things, scenes of active mining and mining plants. Forward them, when complete, to the undersigned at Denver, and they will be taken to the Tennesse exposition and exhibited daily; and then all over the east. The value of this immense and widespread advertising of our state and industries need not be dwelt upon.

Those who are first in line with the movement will receive the first attention of the commission, who will also make every effort to see that none shall be slighted. Very respectfully, Wolfe Londoner, chairman general.

This is the age of adulterations, but HARPER Whiskey is guaranteed strictly pure, superlative whiskey. Chemists, analysts and physicians testify this repeatedly. The evidence is not only strong but conclusive. The people too, find HARPER can be trusted implicitly; hence the enormous sales of this royal whiskey.
Sold by C. A. Anderson, Silverton.

Ranch for Sale.

A well improved 40-acre ranch for sale cheap. Must be sold in the next thirty days. Has good house, good barn, green house and out buildings. Perpetual water right. All of this land can be irrigated. Flumes everywhere and water in abundance for irrigating purposes. Twenty-five acres under cultivation. Five miles from Durango. Address
ABE WALDO, Box 45,
Silverton, Colo.

GEO. W. BARNES, H. H. BARNES, Notary Public
BARNES & BARNES.
LAWYERS.
Office, Grand hotel block.

M. B. HOLT,
MINING ENGINEER,
U S DEPUTY
MINERAL SURVEYOR,
SILVERTON, COLO.

Mining Application.

No. 1249.
U. S. Land office,
Durango, Colorado, May 5, 1897.

NOTICE IS HEREBY GIVEN, that C. N. Potts, whose postoffice address is Colorado Springs, Colorado. M. C. Trout and E. R. Swalley, whose postoffice address is Toledo, Ohio, by J. C. Bowman of Silverton, Colorado, their attorney in fact, have this day filed their application for a patent for 1486.8 linear feet of the
LITTLE RAY LODE,
mine or vein, bearing gold with surface ground 300 feet in width. 606.8 feet running n. 33° 4' e. and 880 feet running s 33° 4' w. from center of the discovery cut, situate, lying and being in Animas Mining District, county of San Juan, State of Colorado, and known and designated by the field notes and official plat, on file in this office, as Lot No. 11559 in Township 40, n range 7 w. N. M. P. M. suspended. The exterior boundaries of said Lot No. 11559 being as follows, to-wit:

Variation 12° 45' east. Beginning at corner No. 1 whence U. S. L. M. Deer Park bears s. 13° 17' e. 3482.66 ft. Cor. No. 1 sur No. 2106, Great Western lode bears s. 13° 24' e. 3457.78 ft.; thence n. 33° 4' e. 1486.8 ft. to cor. No. 2; thence n. 56° 56' w. 300 ft. to cor. No. 3; thence s. 33° 4' w. 1486.8 ft. to cor. No. 4; thence s. 56° 56' e. 300 ft to cor. No. 1, the place of begining, containing 10.239 acres. The nearest known claims are the Montana, Crookstone, Mable. Grand View and Great Western. The location certificate is recorded in Book 96, page 525 and the amended certificate in Book 92, page 163 of San Juan county records, at Silverton in said county. Name of adjoining claimants unknown.

RICHARD MCCLOUD, Register,
First publication May 8th, 1897,
Last publication July 10th, 1897.

Notice of Forfeiture.

Silverton Colo., Feb. 5th, 1897.

To G. A. Rogers: You are hereby notified that the undersigned has expended in labor and improvements on the Alladins Lamp lode mining claim in Animas Mining district. San Juan county, Colorado, of which the location certificate is recorded in the office of the Recorder of said county in book B 2 page 251, one hundred dollars in each of the years 1892, 1893, 1895 and 1896, in order to hold said claim under the provisions of section 2324 of the Revised Statutes of the United States and the amendment thereto approved January 22, 1880, concerning annual labor on mining claims, being the amount required in each of said years to hold said claim for the period expiring on December 31st of each of said respective years. And if within ninety days after the service of this notice upon you by publication, you fail or refuse to contribute your proportion to such expenditure for each of said years as a co-owner in said claim, your interest therein will become the property of the undersigned, your co-owner, who has made the required expenditure, by the terms of said section.

D. T. EASLEY.
First publication February 6th, 1897.
Last publication, May 8th, 1897.

Notice of Forfeiture.

Silverton, San Juan County, Colo.
February 13, 1897.

To JOHN D. SULLIVAN:

You are hereby notified that the undersigned and others have expended the sum of one hundred dollars in labor and improvements upon the Little Girtie lode mining claim situate on Blair mountain, Animas Mining district, county of San Juan, State of Colorado; of which the location certificate is recorded in the office of the clerk and recorder of said San Juan County in book 86, at page 181, in order to hold said claim under the provisions of section 2324 of the revised statutes of the United States and the amendment thereto approved January 22, 1880, concerning annual labor upon mining claims, being the amount required to hold said claim for the period ending December 31, 1896.

And if within ninety days from the service of this notice (or within ninety days after this notice by publication) you fail or refuse to contribute your proportion of such expenditures as co-owner and the cost of this service notice, or publication thereof, your interest in the claim or said lode will become the property of the subscriber by the terms of said section 2324.

BRIDGET HUGHES.
First pub. Feb. 18. Last pub May 22. 1897.

NOTICE OF FORFEITURE.

Silverton, San Juan County, Colo.
January 9th 1897.

To J. P. JOHNSON and EDWARD CLEMONS:

You are each of you hereby notified that the undersigned have expended during the year 1896, one hundred dollars in labor and improvements upon the M. T. mining claim, situate in Red Mountain Mining District San Juan County, Colorado, the location certificate whereof is recorded in the office of the Clerk and Recorder of said county in book 67 at page 522, in order to hold said claim under the provisions of section 2324 of the Revised Statutes of the United States, and the amendment thereto concerning annual labor on mining claims; said sum of one hundred dollars being the amount required to hold said claim for the year ending December 31st., 1896, respectively; and if within ninety days after the service of this notice upon you by publication, you fail or refuse to contribute to the undersigned your proportion of such expenditure for each of said years as a co-owner your interest in the said claim will become the property of the undersigned by the terms of said section.

J. G. GRAY.
First publication April 15, 1897.
Last publication July 15, 1897.

Notice of Forfeiture.

Silverton, San Juan County, Colo.
April 17, 1897.

To J. P. JOHNSON and EDWARD CLEMONS:

You are each of you hereby notified that the undersigned has expended during the year 1896, one hundred dollars in labor and improvements upon the Mountain Quail lode mining claim, situate in Red Mountain Mining District, San Juan County, Colorado, the location certificate whereof is recorded in the office of the Clerk and Recorder of said county in book 67 at page 61, in order to hold said claim under the provisions of section 2324 of the Revised Statutes of the United States, and the amendment thereto concerning annual labor on mining claims; said sum of one hundred dollars being the amount required to hold said claim for the year ending December 31st, 1896, and if within ninety days after the service of this notice upon you by publication, you fail or refuse to contribute to the undersigned your proportion of such expenditure for the said year as a co-owner, your interest in the said claim will become the property of the undersigned by the terms of said section.

J. G. GRAY.
First publication April 17th, 1897.
Last publication July 17, 1897.

Notice of Forfeiture.

Silverton, San Juan County, Colo.
February 13, 1897.

To William Feigel:

You are hereby notified that the undersigned has expended in labor and improvements on the Little Annie lode mining claim in Ice Lake mining district, San Juan County, Colorado, of which the location certificate is recorded in the office of the recorder of said county in book 96, page 397, one hundred dollars during the year 1896 and in order to hold said claim under the provisions of section 2324 of the revised statute of the United States and the amendment thereto approved January 22, 1880, concerning annual labor on mining claims being the amount required for said year to hold said claim for the period expiring on Decemben 31st 1896.

And if within ninety days after the service of this notice upon you by publication, you fail or refuse to contribute your proportion to such expenditure of each of said years as a co-owner in said claim, your interest therein will become the property of the undersigned, your co-owner, who has made the required expenditure, by the terms of said section.

HILLORIUS K. MACHMER.
First pub. Feb. 13. Last pub. May 22. 1897.

Notice of Forfeiture.

Silverton, San Juan County, Colo.
February 13, 1897.

To WILLIAM FEIGEL:

You are hereby notified that the undersigned has expended in labor and improvements on the Hail Storm lode mining claim in Ice Lake mining district, San Juan County, Colorado, of which the location certificate is recorded in the office of the recorder of said county in book 96, page 335, one hundred dollars during the year 1896, and in order to hold said claim under the provisions of section 2324 of the revised statutes of the United States and the amendment thereto approved January 22, 1880, concerning annual labor on mining claims, being the amount required to hold said claim for the period expiring on December 31, 1896.

And if within ninty days after the service of this notice upon you by publication, you fail or refuse to contribute your proportion to said expenditure for the said year as a co-owner in said claim, your interest therein will become the properly of the undersigned, your co-owner, who has made the required expenditure, by the terms of said section.

HILLORIUS K. MACHMER.
First pub. Feb. 13. Last pub. May 22, 1897

IN THE LEAD

THE
"UNO"
CLUB
ROOMS

Corner Greene and Twelfth Streets.

Carries a fine line of

LIQUORS

AND

CIGARS

Billiard and Pool games a feature of attraction

SLATTERLY & KANE, Props.

P. H. HANIGAN'S

BEER HALL

in Pete Nelson's old tailor shop.

A cosy resort where the best beer may be obtained

DID YOU HEAR ABOUT

Continued from page 1.

A Fourth that is a Fourth—Silverton, 1897.

The late tunnel decision give to the "tunnel site man" whole districts with the inhabitants thrown in.

Don't fail to hear "How Ruby Played" as described by Judd Brownin, the humorist, Saturday evening a week.

A Fourth of July celebration in Silverton should be inviting enough to the miners in the vicinity, and our citizens to encourage their stay.

The streets and alleys have been cleaned up this week and everything looks as neat and tidy as one could wish, now its in order to keep them clean.

Save up your $ $ ye suckers for the shell speilor will be here shortly. The advance agent of Lane's circus was in town this week and made a date to show here on June 6th.

Ten cents a piece will be given for last weeks copies of the STANDARD at this office. Thirty-two extra copies were disposed of and a call for five more which could not be supplied.

To a member of the band—The communication mailed us this week will be pigeon holed until the party deems it necessary to have the same published over his signature. Please call at the office.

Fillmore Hand, road overseer of the Western district, started last Wednesday with a force of men to work up South Mineral creek The road is in very bad condition but with the assistance of fine weather, will be passable in a few days.

Joe Boise, last Thursday rode at break neck speed down the street to the office of Dr. Reavley, upon inquiry of his haste, it was learned that the little daughter of Al. Churchill, who is subjected to spasms, was having a very severe one.

See the Delsarte expressions of anger, happiness, fright, farewell, etc., by a young lady dressed in a Grecian costume with colored lights at the recital, Saturday evening of next week at the Congregational church, admission fifty cents.

A letter to our Richard Brown from Richard Terrill, who is now in Idaho Springs undergoing treatment for injuries sustained in Silverton, just a year to-morrow, states that he feeling better than at any time since the accident and will return on or about next August.

The fastest time ever made from the Iowa mine to Silverton may be recorded, as being made on the 10th inst. when Fred Grebles, who was summoned by telephone that his 19 months old child was very sick. The time was just 33 minitues in which it took Mr. Grebles to arrive at his residence from the mine.

Arrangements are now perfected and invitations extended by Silverton Lodge No. 33 A. F. & A. M., to six lodges, Telluride, Rico, Durango, Mancos, Ouray and Lake City, and on the 24th of June it is expected that Silverton will be visited by a goodly number from these sister cities, as the Masonic Lodge here will be expected to reciprocate at the next congress, wherever the same may be had, which will be decided at the June meeting in Silverton. All the lodges in the above named cities are enthused with the undertaking and express themselves as desirous of meeting each other.

The First National Bank is receiving a new coat of paint this week.

Don't miss "My Sweetheart" at the entertainment May 22nd, by Miss Street, one of Durango's sweetest singers.

When do the boys rush pell-mell,
And the sleepy open their eyes,
And all the "Rubbers" begin to swell,
To think of the glad surprise.

Why, it's when Hickey reaches down,
And Johnny he knows the knell,
The chips roll in, he looks around,
Then rings the old cow bell.

Alex. Anderson, successor to Mose Liverman, manager of the Silverton railroad, came in Wednesday to begin his work. Thursday he went to Red Mountain for the purpose of investigating the roads condition. He returned to Denver yesterday but will again be in Silverton next week when the opening of the road will be commenced.

Last Tuesday a fire of no small proportions was averted by the smelling sense of Wm. C. Savage. Two little boys had started a fire in a shed back of the Silverton Hotel. When discovered it was burning briskly and the flames were reaching far up the sides of the wall. It was soon extinguished and the small kids hied out for their respective homes.

Kentucky Philosophy, a negro dialect recitation, will be given at the church entertainment Saturday evening May 22.

Many are the opinions concerning the action of the new town board, pro and con, in their endeavor to oust the so-called tin horns and bums, some have asserted themselves as desirous of having the present extra policeman, Sam Brown taken off duty, and why? We pause for reply. There is one question at stake concerning this move of the board in excluding this element and that is *where is the line to be drawn.*

Hear "Fiddle and I" with violin accompaniment by one of Durango's favorite soloists, Saturday eve. May 22nd.

Mr. E. L. Roberts of the People's Hardware store, a few weeks ago shipped a small amount of clay to Chicago from his property, just above the reservoir, to be made into a regular size brick. This week the brick arrived and weighed 7½ pounds and is ⅓ fire clay, and of a porphry color. Experts say it is the finest brick they ever seen. The clay bank is over 70 feet wide and easily mined.

All will enjoy seeing "Josiah Allen's wife at Alexander Stewarts store" May 22nd.

The Kid, a miner, known by every Silvertonite, for his strong pair of lungs, came down from the mines the fore part of the week, and meeting a number of friends, started a boycott against cold water. His faithful dog Pete, an intelligent animal, stayed with his master. Evening came and still the boycott was kept up and the Kid began to exercise the strength of his lungs. He ran against the night watch and was thrown in—and Pete went with him. He is now out enjoying the fresh air and has been consulting his lawyer to bring suit against the city in behalf of Pete, for defamation of character and false imprisonment.

Notice to Firemen.

All members of the Silverton Fire Department are requested to attend the annual meeting, to be held at the City Hall, Thursday May 27th, at 8 p. m. Election of officers and business of importance. By order of I. S. FREEDMAN, Chief

Lumber, Lumber, Lumber,

City Coal, Hesperus Coal, San Juan Coal — Coal — City Coal, Hesperus Coal, San Juan Coal

Hay and Grain. Hay and Grain, Hay and Grain

LIVERMAN & LOGAN,

Owners and operators of City Coal Mine,
Durango, Colo.

Why don't you buy a

Hospital Ticket,

Before you go to the hills? Only One Dollar a month.

—Apply at Hospital office.—

Ed Quilliam. C. S. Casad.

QUILLIAM & CASAD,

are the

BLACKSMITHS of SILVERTON

The repairing of Mining Machinery a specialty.

Painting and Papering,

The finest line of wall paper in Southwest Colo.

JOHN W. PERRY,

Successor to Perry & Sparrow.

Fine Sign Painting a Specialty.

PEOPLES HARDWARE STORE,

E. L. Roberts, Prop.

Hardware, Furniture and Chinaware,

Powder and Fuse and Mining Supplies.

Silverton, Colorado.

Silverton Bottling Works,

PETER ANHEIER.

Dealers in the best brans of pure Lager Beer.

Manutacturers of all kinds of Carbonated Goods.
Coor's Beer Special Brewed for Family use in pints and quarts.

SILVERTON STANDARD.

KLINGER BROS., PUBLISHERS.

ONE YEAR $2.50.
SIX MONTHS, $1.25
THREE MONTHS, 75C.

Entered at the Silverton, Colo. postoffice for transmission through the mails as second class matter.

SATURDAY, May 15, 1897.

McKinley got the blues, Gage the sulks, and Hanna—well he is getting them plenty on all sides—all because the manipulators have begun a raid on the gold reserve.

Major General Wheaton, of the United States army retired from active service last Saturday, having reached the age limit of sixty-four years.

Hawaii is still seeking admission to the United States. Let them seek—the sugar growing interests of this country are not ready to compete with the Cooley industry of that debt ridden island.

Paul Kruger, president of the Transvaal, has backed down completely, the volksraad having repealed the immigration law. There will be no war in that vicinity—England made her bluff stick.

Tammany is sure of carrying the city election in New York city this fall. At a recent meeting the large clock on Tammany hall stopped 16 minutes to 1. That will be the banner they'll march under to victory.

Over $9,000,000 in gold shipped out inside of nine days. The President and his Secretary of the Treasury are somewhat surprised because they predicted an influx of the yellow metal into this country at this date. As long as the government continues to issue legal tender notes to be redeemed in coin and that coin gold, just so long the Treasury will be drained at the will of the money sharks.

The trio sent to Europe for the purpose of forming a silver conference is seasonable. The time is far enough off from a presidential election that no make shift will render the project another bunco scheme. In Bryan's words: "If they accomplish the object and restore silver well and good, and if they fail to procure an international agreement the cause will be twice as strong in 1900 as it was in 1896."

President Boyce, of the Western Federation of Miners, in a recent speech delivered at Salt Lake, urged all members to see that ways and means are provided so that every man can be furnished with the latest improved rifle, he further said: "I would like to hear the inspiring music of the martial tread of 25,000 armed men in the ranks of labor." He scored the national guard and said every member of a union should withhold their patronage from all business firms giving them employment. "Labor" said he, "has no rights that capitol is bound to respect." His idea of a boycott was proper enough but the idea of the martial tread of 25,000 armed miners in a country of over 70,000,000 inhabitants seemed far fetched. And so long as the gang politician uses corportion money to elect their tools to fill offices in this country, just so long will the $13 a month nincompoop hold his job in the national guard.

The Cuban war is far from being over, and it looks as if the natives of that sultry clime would yet secure their freedom. The Spanish troops, under the direction of Weyler have laid waste the country to the extent that the army is now almost entirely dependent upon Spain for supplies—their support for one year in Cuba will require, it is estimated, about $132,000,000, and already she is behind over $50,000,000 with the pay roll to her soldiers. The Cubans can muster over 30,000 well armed men.

Rockefeller, the late president of the Standard oil company gave $7,000,000 during his life-time to the Chicago University. The above company has made $225,000,000. Was he a philanthropist? Poor people burn oil. John Smith made, before death took him hence, $22,500,000 and gave to a college $700,000—was John Smith a philanthropist. Thomas Jones accumulated a fortune of $2,250,000, and donated $70,000 to a favorite school—was he also a philanthropist? Wm. Brown speculated in stocks and secured $225,000 giving $7,000 for a benevolent institution. Old Sy. Hicks, during all his life of honest toil only accumulated $225 and to place his name on a par with Rockefeller and others as a philanthropist, gave during his latter years $7 to build a log school house in the village where he lived and died as one of the common herd. Does the Lord say give so much to the poor and follow me, or did He say give one-thirty-second of what you have to keep your family's name before the public and receive praises.

$ $ $ $?

The rousing question of the day—How much money will the gang spend in trying to elect their men this year.

Greece has at last sued for terms of peace. She undertook a big job and if sympathy would have assisted her to win her battles she would now have the Turks at her mercy.

General Forsythe was appointed Major General of the United States army, Thursday. The general is forty-one years of age, a native of Ohio, and is a graduate of West Point.

The Planters of Hawaii have bound themselves to employ American labor in preference to European or Asiastic labor. How far different in America. Here in this glorious land of the downtrodden and the home of the politician, the more unAmerican a person is the sooner he catches onto a job.

Garden Hose, Lawn Mowers, Ice Cream Freezers, Hoes, Shovels, Rakes, Forks, and all Seasonable Goods.

A full and complete line of

Hardware, and Tinware.

I make a specialty of all kinds of tin work.

.....Remember, I will not be undersold.....

Joseph Bordeleau.

Independant Meat Market.

C. H. H. KRAMER.

Fresh Fish. **Wholesale and Retail Butcher** Fresh Meat.

VEGETABLES, CURED MEATS, AND POULTRY
Rohrig & Kramer's Old Stand.

San Juan Meat Market,

Bert Brown & Co., Proprietors.

Vegetable and Produce. - - - -

Fresh and Salt Meats.

Satisfaction Guaranteed. -:- Give us a trial. -:- Supplying mines a specialty.

Corner Greene and 11th Streets.

Silverton

Wholesale and Retail
Dealers in
Fresh, Salt and Smoked Meats.

Meat and

Butter Eggs, Cheese and Produce.

MARKET:
ON GREENS., Between 11th & 12th.

Produce Co

Bank of Silverton.

(ORGANIZED UNDER THE STATE LAWS.)

Capital Stock Paid in, $30,000.

G. H. STOIBER, President. J. M. GUNDRY, Vice-President.
J. H. ROBIN, Cashier.

Transacts a General Banking Business. Issues Domestic and Foreign Exchange. Acts as Fiduciary Agent for persons or companies having mining interests in the San Juan Mining District.

Correspondence will receive prompt attention.

SILVERTON, COLO.

OUR SISTER CITIES

Condensed, Re-hashed, Culled and Clipped From Papers.

A miner named James Kermode fell down the shaft 20 feet in the Pony Express Friday May 7th, and was badly injured, though it is not thought fatally. He was brought to Ouray and is receiving the best of medical care. His brother was killed in the same mine last summer. The brothers have mined in the San Juan country for many years.—Ouray Plaindealer.

J. Brink, of Silverton, a mining man well known throughout the San Juan country, was an arrival in Telluride Thursday morning. Mr. Brink owns a promising group of properties near Ophir, and it is understood that he is here to interview L. L. Nunn in regard to securing a lease on the Illum ten stamp mill at which to treat the ore. He intends to move his family to Ophir to reside, and give his entire attention this season to the operation and development of his mining property.

Silverton and Durango baseball teams are anxious to cross bats with Telluride's crack nine. If our ball players are in earnest in their desire to play outside teams they will not have to go very far to find combatants.—Telluride Journal.

Harold Wilson, manager of the Silverton smelter, is expected to arrive in Rico within the next few days to examine the smelter plant at this place.—Rico News-Sun.

Silverton editors are roasting Durango over this through train business. And Silverton has a kick coming as it pays to be liberal and benevolent to those upon whom we rely for trade and commercial prominence. On the other hand, look what the Durango Herald is doing to Silverton; a work more far reaching than four through trains, and all for love, pure, unselfish love. Scat, you fellows up the creek!—Durango Democrat.

If Silverton intends a Fourth of July blowout that will shed its glare over the adjoining country and surfeit neighboring camps with envy, she has but to procure a few barrels of non-headache elixer, the usual pyrotechnic appliances, send out the invites and money will do the rest. Of course there must be lemonade, carbonated beverages and a refined athletic and literary program to catch Durangoites. Might supply the latter by securing George Raymond to read one of his original editorials, and if short on athletes, some of our post-election McKinleyites might be induced to flop again.—Durango Democrat.

I have a creed that's all my own,
With Justice for my Jesus;
And Love into a Lord has grown,
While humane work increases.
I spell my God just simply Good,
My saints are Salt and Sugar;
My faith and work means clothes and food
Without a pulpit juggler.
My heaven is but human Hope,
I need no gospel monger;
I make my judgment priest and pope,
And hell is only hunger.
—Steamboat Springs Democrat.

The Silverton smelter is being overhauled and put in shape for starting up and the fires will be started June 1. This means the employment of a large force of men and increased prosperity for Silverton.—Durango Herald.

Peter Nelson, a Telluride miner was buncoed out of $77.00 in Denver, while on a visit to that city last week. The buncoite was captured and placed under $500 bond to appear in the criminal court and the buncoed was held to prosecute in the sum of $300. He held three aces and a pair of kings and the sharper held the rest of the deck.—Denver Ex.

Silverton expresses a desire to wipe the earth with Telluride's ball team. Just wait until W. C. Green gets his war paint on.—Telluride Democrat.

G. H. Stoiber came down from Silverton as far as the Springs Sunday evening where he stopped over night, arriving in Durango in time yesterday morning to take the train for Denver.—Durango Herald.

Local Brevities.

Tin roofing and repairing at Fritz Hoffman's.

I do some watch repairing too. Also first class work at reassnable prices. T. McKinney.

When you wish to take a first-class bicycle ride call at the Novelty Works, next to the Telegraph office.

A car of new wool mattresses just received and will be sold at prices never before known in Silverton—very low—at Fritz Hoffman.

The finest line of cigars can be had at T. McKinney's.

Fruit of all descriptions, fresh at T. McKinney's, the best the market affords.

New and second-hand goods bought and sold. Seek bargains at Fritz Hoffman's, before going elsewhere.

I have a fine B. *W.* Raymond movement in coin silver cases, at the wonderful low price of $12. T. McKinnes.

T. McKinney's place is "the place" when you wish to purchase fine candies. Fresh every day.

All kinds of stove repairing done on short notice at Fritz Hoffman's.

N. W. Savage's Second Hand Store.

Now is your time to buy goods cheap. Furniture, Crockery, Tinware, Granite Ware, Cook Stoves, Heating Stoves, and all kinds of New and Second Hand Goods at the same prices that has sold for in Durango the past seven years. Highest prices paid for second hand goods. Paddy Hughes old stand above postoffice.

An eight room house and twelve lots for sale. A bargain. Inquire at N. T. Thomsen's shoe store. 4t.

Strawberries, Bananas and all kinds of fruits grow in profusion in J. C. Copeland's windows.

J. J. DEMARR,

Electrical Engineer and Contractor.

Will Contract for or Supervise Construction of Power and Light Plants, Telephone and Telegraph Lines, Mine Signals, Incandescent and Bell Wiring.

WaterMotors and Small Steam Power, Estimates on Application. All Kinds of Construction Work Done. Repairing of all kinns Dynamos and Motors Rewound.

Celebrated for its great leavening Strength and healthfulness. Assures the food against alum and all forms of adulteration common to the cheap brands. **Royal Baking Powder Co.** New York.

Business Directory

ASSAYERS

Kennedy & Williams Green street above 13th.
J J Carroll Green street bet 10th and 11th.
C. A. Cooper, next to Justice of Peace office.

BARBERS

R L Hannah Greene street, bet 11th and 12th.
Malchus Bros. Greene street, bet 12th and 13th.
Lee Smith Green street, bet 13th and 14th.

BLACKSMITHS

C S CASAD Green street opposite San Juan Meat Market. A specialty made of repairing all kinds of mining machinery. Horses, mules and burros promptly shod. Wagons and sleighs repaired.

Q CATO Green street between 14th and 15th. Does a general Blacksmithing business. Mine Machinery will receive prompt attention and the best of work guaranteed, Horse and Mule shoeing a specialty.

BOOKS AND STATIONERY

GEO J HANLEY Makes a specialty of books and stationery. Carries the finest line of late novels in the San Juan country. A fine line of Fruit, Candies and Cigars.

CONFECTIONERY, FRUIT AND TOBACO

A R SPRINGER Keeps a full line of Fruits and Confectionery, Choice Cigars and Tobacco Fine Stationery, Newspapers and all kinds of Confectionery. Eureka telephone. P. O.

STAPELS & ANNEAR Dealers in Tobaccos. Cigars, Confectionery, Fruits and Stationery. Candies, Toys and Presents. Green street bet 12th and 13th.

J. C. COPELAND. Leads in choice cigars, tobacco, stationery and candies. He also handles fruits and country produce, butter, eggs, etc. Wholesale and retail.

CLOTHING, BOOTS AND SHOES

WILLIAM COLE Carries an elegant line of Gents Furnishings, Boots, Shoes, Hats and Caps. A specialty made of Miners wearing apparel. Give us a call and examine goods.

EDWARD LUSSY. A specialty in boots and shoes, but a stock of Gents' Furnishing unsurpassed in Southwest Colorado. Orders taken for tailor-made clothing. Green street, George Hemphill.

George Hemphill.

DRY GOODS

FREEDMAN BROS. Popular Bazar Carries a full line of Dry Goods, Boots, Shoes, Hats, Caps, and an elegant line of Gents' Furnishings. A fine stock of winter clothing can always be found at this popular bazar.

DRUGGISTS

B A TAFT Everything pertaining to a first-class Drug Store. Greene st. bet 11th and 12th.

S. D. CUNNINGHAM, Medicines, Perfumery, Leads. Oils, Drugs, Paints, Books and Fancy Goods. Prescriptions carefully compounded day or night. Greene street. bet 12th and 13th.

DOCTORS

J N PASCOE Physician and Surgeon. Office—Greene street, bet 10th and 11th.
E. M. Keller, Reese street.
E. Reavely, Reese street.
D. Rader, Snowden ave.
F. E. Prewitt, Green street.
L. H. Clark, Green street.

FURNITURE AND UNDERTAKING

H G PROSSER. Carries a full line of Furniture Call and see goods and get prices on Bed Room sets, Kitchen Furniture, Baby Carriages, Rockers, etc. Green street bet 11th and 12th.

GENERAL MERCHANDISE

JOHN R CURRY Carries a large and compiete stock of General Merchandise, and Miners and Mine owners would do well to examine his stock and get prices for their winter supplies. Cor Greene and 10th street.

GEO. W. BAUSMAN

GROCERIES

NAT BALLOU Silverton Mercantile Company. Carries the largest and finest stock of groceries in the San Juan. Prompt attention paid to mine orders. See adv.

JOHN PERRUNG. A general line of Staple and Fancy Groceries constantly on hand. The only fiirst-class bakery in the city. Fresh pies. Bread and all kind of cake in abundance. Green street between 12th and 13th.

HOTELS

SOUTHERLAND E B Southerland, prop. Bet. 10th and 11th on Green st. Table furnished with all the market affords. Good comfortable beds. Rates $1.00 per day. Greene street bet 10th and 11th.

HARDWARE

JOSEPH BORDELEAU A full and complete line of Hardware, Tinware, Stoves, etc. Greene Street. bet 11th and 12th. See adv.

E J. ROBERTS People's Hardward Store. Hardware, Furniture and Chinaware, Carries a full supply of Miners Supplies. See adv.

F. O. SHERWOOD, The new store on Tenth St. carries a complete stock. Paperhanging and Painting connected with the Hardware store.

HAY GRAIN AND FEED

ERNEST GRILL Wholesale and Retail dealer in coal. Anthracite and Champion always in stock. Oils and Paints a specialty. Lumber and builders' material of every desesiption. East side D & R G track end of 10th street.
Stubbs & Jackway, 10th street.

LAWYERS

BARNES & BARNES Legal work pertaining to mining property a specialty. Rear Bank of Silverton. See card.

BUCHANAN & SEARCY. Mining, Corporation and General Law Business. Office over First National Bank.

LAUNDRY

J R STAHLNECKER City Laundry. Formerly known as the Troy- Improved facilities for turning out first-class work. Send in your orders or call. Satisfaction guaranteed. 13th st. between Greene and Reese streets.

LIVERY STABLES

C A BOWMAN Finest line of Saddle Horses and Carriages in the San Juan. Animals fed and stabled by the day, week or month. see adv

DOUD BROS. Formerly Hampton & Doud. Finest rigs in the city can be obtained both Winter and summer. see adv.

MEAT MARKETS

BERT BROWN & CO San Juan Meat Market deulers in all kinds of Fresh and Sult Meats. Cor 11th and Green sts. See adv.

SILVERTON MEAT AND PRODUCE CO. Fresh and Salt Meats of all description, Butter, Eggs, etc. Green St. bet 11th and 12 sts.

C. H. H KRAMER Independent Meat Market. Wholesale and Retail Butcher. Fresh Fish. Fresh Meat. Green street bet 13th and 14th

MILLINERY

MRS ANNA BALLARD. A most complete stock of everything that pertains to a first-class millinery store. Dressmaking and hat trimming for all the seasons. Greene street, between 13th and 14th.

PLUMBERS.

CALDWELL & HAAS, successors to W. W. Reese. The only strict plumbing and and steam fitters in the city. Always ready for business on short notice. Office, rear Grand hotel

PAINTERS AND DECORATORS

PERRY & SPARROW Corner Reese and Thirteenth. Sign work and paper hanging a specialty. Satisfaction guaranteed.

PHOTOGRAPHY

BROOMFIELD Known throughout the San Juan and over the State. Call and examine the fine senic views of this part of the Rockies. Green street between 13th and 14th.

RESTAURANT

FRED BODEN The Famous Silver Moon Restaurant. Open day and night. The finest Short order house in the San Juan. White cooks. Greene street, bet 11th and 12th.

REAL ESTATE

ROBIN BROS Real Estate, Insurance, Abstracts of Titles. Lots for sale in all parts of the city at your own price. Also some of the most desirable Residences. Green St.

SURVEYORS AND MINING ENGINEERS

JAMES DYSON The oldest U S Deputy Surveyor in the county. All business placed with him receives prompt attention. Cor 12th and Reese streets. See adv.

WILLIAMS & KENNEDY A general assaying busines transacted. Surveying of all description promptly attended to.
T. M. Tripp. Howardsville.

SECOND-HAND STORES

FRITZ HOFFMAN In the buying and selling of all secondhand goods, Watches, Jewelry, Guns, Mining Tools, Queensware, Furniture and in fact every useful article used in the camp. One door south of postoffice. Green street.

TRANSFERS

CHAS. REW Express and Baggage to and from all trains. Prepared to do all kind of moving on short notice and with the utmost care.

"DOC." LAMBERT General Freight and Express transfer. All moving of furniture will be promptly attended to. Leave orders at A. R. Springer's. See adv.

C. A. BOWMAN. Call on the Silverton Transfer Company when in need of assistance in moving, Express promptly delivered. See advertisement.

TAILORS

JONES & CO Merchant Tailors, Gents Furnishing Goods. Agent for best custom tailoring firms, Suits made to order. Reparing done Prices moderate. Green street.

J N Kloster Green st

WATCHMAKERS

A GRIBBLES Practical Watchmaker. fifty years experience. Watches, clocks and jewelry neatly repaired and warranted. Makes a specialty of manufacturing jewelry. Located at Ed Lussy's store, Green street.

A KLINGER All work improperly repaired by incompetent workmen will receive special attention. All kinds of quartz and other stone cut and polished to order. Next door to telegraph office, 12th street.

WATCHMAKERS AND JEWERY

M. S. DARLING, Dealer in Diamonds, Watches and Jewelry, Silverware, Clocks, etc. Watches and Jewelry neatly and promptly repaired. Greene st. Cunniggham's Drug Ssore.

T. McKINNEY. Carries the finest line of Jewelry, Watches, Clocks, Diamonds, etc., in the San Juan country. Greene street

SHOEMAKER

J. W. TAYLOR Silverton's Boot and Shoemaker can be found daily at his shop, Gren street opp. postoffice. Fine sewed work a specialty.

SALOONS

SLATTERLY & CO. The "Uno" southwestern corner Green and 12th streets. The most popular resort in Silverton. They always lead and are up to date. Fine mixed drinks and the best brand of cigars. See adv.

LARSON & BERQUIST The best of "Wet Refreshments" always within reach. Boys coming down from the mountains will be royally welcomed at all times. Bill Davis' old stand Greene street.

LONERGAN & CALLAHAN. Corner Green and 12th streets. Keeps as fine a line of liquors and cigars as can be found in the San Juan country. The most courteous treatment extended to all. Remember "Silver Dick."

LANDRY BROS. Keeps all kinds of Wines, Liquors and Cigars. Fresh beer always on tap. The best attention given to the public at all hours. Teller House, Green street, opposite First National Bank.

HENRY BREINING Germainia Beer Hall. Keeps everything found in a first-class liquor house. When in the city call on Dutch Henry at his old stand corner of 13th and Greene streets. See advertisment.

LOUIS SARTORE Beer Hall Importer of fine Wines a specialty Both bottle and draught beer always on hand While in the city give us a call Greene street, opposite Popular Bazar

K. Benson, opposite Bank of Silverton.
Jodeseki Bros Green street
W. D. Strange. Silver Dollar.
Reynolds & Pierce. Green street.
Henry Sherman.
Chas. Anderson.
The Hub. John M. May

HIS REMAINS DISCOVERED.

Clarence Griffin's Body Found Near the Trail up Hancock Gulch.

Last Sunday, about 4 o'clock p. m. while James Dyson and a number of friends were out walking up Cement creek they strolled for a short distance up Hancock gulch and when about 200 yards up the trail they concluded to make a halt and camp for awhile, shortly after stopping, Edgar Dyson, a boy about ten years old, who was hunting a place to put up a swing, came running into camp, calling his father and others to come up the hill and see the dead man. Mr. Dyson and Mr. Kennedy went to the place pointed out by Edgar, and found the boy's report too true. They discovered the body behind some bushes a short distance from the trail, lying on his back with a bullet hole through the skull, supposed to have entered the right side, his arms were lying at his sides, and on the left of the body was found a 38 Colts revolver with one blank cartridge and one vacant chamber, the remaining chambers were loaded.

The only articles found on his person was a meal ticket, issued at Las Vegas, N. M. with the name of Clarence Griffin, and a bar check on one of the saloons of this place. It is supposed the body had been lying there since September last. Mr. Dyson immediately came to town and informed the coroner who proceeded to the place, but concluded that an inquest was not necessary. His remains were sent to town and were buried Monday; but on Wednesday were taken up and shipped to Santa Fe, his former home.

Sometime the latter part of August Clarence Griffin, a young man of good appearance and quiet demeanor rented a room of Mrs. Davis, on west Snowden avenue paying for the same in advance. He left a trunk and before the end of the week disappeared. Tuesday the trunk was opened and the contents showed that he was not in need of the comforts of life, besides good clothes, pictures, books, etc., was found a small amount of money, mostly Mexican dollars.

His father, W. W. Griffin, died but a few years ago and at the time of his death was one of the most prominent citizens of Santa Fe. Clarence, the deceased leaves four brothers and one sister, one of whom, William, resides in Santa Fe, and his mother in Kansas City.

The boys were all graduates of Swarthmore college, Philadelphia.

Tom Clark, our city electrician, was a school mate of the deceased and speaks of him in the highest terms, says he was industrious, sober and all in all a good fellow.

He Was Set Feee.

Chas. A. Graf, who last Thursday a week ago, was bound over in the sum of $5,000 to appear at this week's term of Court, and failing to raise the bond was placed in jail, was brought before the Court and discharged as Mr. Bordeleau, the prosecuting witness, failed to appear against him.

The Coming Fourth.

The boom of a Fourth of July at this early date insures for Silverton a rousing celebration, such as will discount all former efforts.

For the past week the topic of conversation has been largely on the coming Fourth, and the present enthusiasm displayed by our best citizens will not be allowed to cease but will be encouraged and by next week the forming of committees and raising funds will be started.

We Don't Believe It.

Have you heard of the story told on Tom Tulley since his return from Washington, D. C.?

While it is practicable, there is still a doubt as to its varicity, it is like unto the Smith-Corbett tale that has been going the rounds lately.

It seems that Tom stuck to Wolcott until the last, even to the departure of the latter on his silver mission in Europe and while the hustle and bustle was at its height an accidental exchange of hand satchels was made, whereby each had the others possessions and not until the first landing of the French line, La Touraine, did Senator Wolcott discover that he had Tulley's grip, whereupon he immediately cabled the following:

"I conclude that the bag is yours, I discover among other things, samples of ore, articles concerning myself, from a democratic standpoint, (*Miner* edition, 1896,) treatis on "How to secure post-office commissions," one bottle Full'er hair tonic and a poem entitled "My Uncle Will.". It must be yours, will return same on outgoing steamer. E. O. W.

Hospital Notes.

Guy B. Campbell of the Lake came down Friday, sick and is at the Hospital.

Jacob Asher and Thos. Sualdi, miners from the Iowa, came down sick last Friday.

Thos. Wishart who has been at the Hospital since April 1st. with typhoid fever is now seen on the streets.

The sale of Hospital tickets is rapidly increasing, so says manager Prewitt.

Misses Boyd and McManus, the two trained nurses from Denver are valuable assistants.

Gus Shockman is recovering from inflamatory rheumatism.

The Hospital put in new hose as a precaution in case of fire.

Joe Todeschki, a cousin of Tony is quite ill at his residence.

Drs. Rader & Prewitt are furnishing up their new offices and will occupy the same after next Monday.

Thursday evening, we was informed that a party of ladies were trying to acquire the art of riding the bike, tried to ascertain their names but could not. The next morning while taking a walk in that vicinity we noticed all kinds of impressions in the sand and dust, places torn up, bolders dislodged, small pieces of sod turned over, etc., thinking that a large amount of stock had been corraled there for the night, asked of a resident in that part of the city, who owned the animals that were left there the night before and were informed that none had been there, but the disfigurement of the earth was due to a party of bicyclists who must have been training for a polo game.

Notice.

The New York bakery and grocery house will as usual, keep open for Sunday trade. MRS. MARY PERRUNG. 1t.

Death of A. E. Lane.

A. E. Lane, a young man about 25 years of age, who was in Silverton a year ago, know best for his easy acquaintance met death on the S. P. railroad, while firing on an engine in Texas, being scalded to death. His pleasing disposition made for him friends. He was a fine musician, belonged to the K. of P. lodge and B. of T.

John Brown, was down from the Tomtation. this morning, and reports plenty of snow in that vicinity.

"A BREAKER RECORD"
"A RECORD BREAKER"

GATES ROCK AND ORE BREAKER

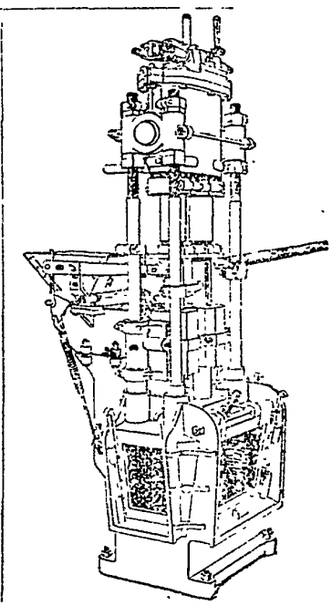
Modern Mining Machinery

Our Engineers will plan and erect any kind of mill.

We have been Established 55 Years.

STEAM ORE STAMP

Capacity equal to a 5-stamp gravity mill. Costs one-half to erect.



WILL YOU INVESTIGATE IT?

Bleichart Tramways.

Cyanide and Chlorination Mills.

Gates Iron Works, "Dept. OO" 650 Elston Ave. CHICAGO.

Denver Office: 422 17th St.

C. A BOWMAN, Mgr.

Silverton Transfer Co.

Dealers in San Juan, Hesperus and Porter Coals.

Finest Livery Turnouts in the City. First-class Saddle Horses a Specialty. Stock Boarded by the Day, Week or Month.

Doud Bros. HAS NO SLATE. DOES NOT COKE.
Doud Bros.
Doud Bros.
Doud Bros.
Doud Bros.
Doud Bros.
Doud Bros.

Coal Porter and Hesperus!!

COAL THAT SATISFIES EVERYBODY

THE SILVERTON BREWERY,

Chas. Fischer, Proprietor,

Silverton, Colorado.

Manufacturer of the Famous

PILSENER BEER.

Beer for Export in Any Quantity.

TROLLEY IN SEWERS.

VISITORS TO PARIS ROLL RAPIDLY THROUGH TUNNELS.

Made Famous by the Great Victor Hugo —Journey That Has Novelty to Recommend It—More Pleasant Than It Used to Be.

To ride through a sewer seems a novelty to almost any one who does not live in Paris, but to travel through the sewers of a great city by trolley car is certainly somewhat remarkable, says the New York Herald. Yet that is what the visitor to Paris can do, provided he happens to reach the French metropolis at a time that will enable him to take advantage of one of the quadrennial excursions through the great channels that act as conduits for the waste of the greatest city in France. The most recent of these excursions took place a few days ago, and it was the longest journey of the sort ever taken. Up to less than three years ago it was not so pleasant a journey as it is now. The visitors are conveyed through the great tunnels in cars or boats, as they are called. In other days these vehicles were drawn by men, but about two years and a half ago, on account of the great amount of labor and tremendous expense necessitated by this method, the wits of the department of public works were concentrated on some plan to obviate the difficulty. The result of this is the successful effort to run trolley lines through the Paris sewers. Perhaps the best idea may be obtained of exactly how the Parisian sewers look by considering them as huge tunnels, for the term conduit hardly gives an adequate idea of their size or appearance. In the floor of these tunnels is what may be more properly termed a conduit, in the form of a rectangular channel for the sewage. The width of this conduit varies considerably, from three to eight feet. On the width of this channel depends the use of cars or boats. Cars are used for the very narrow channels and boats for the wider ones. The cars run on flanged wheels, similar to those of the ordinary street car, the rails being placed on the edges of the channel, the cars being therefore a sort of movable bridge. Each car will hold twenty-five passengers, that being the maximum capacity. Ordinarily but twenty persons are allowed to ride in a single car. The cars travel in trains of five each, and the total weight of such a train is 12,000 to 15,000 pounds. There is no rigid rule as regards speed, that being regulated by circumstances. As a rule, however, the average is four and one-half miles an hour. The speed limits may be placed at two and a quarter miles an hour for the minimum and five miles an hour for the maximum. The maximum time is seldom made, and never during the ordinary hours of travel when the public is permitted to ride. When boats are used, as is the case in the wider channels, the same number is attached one to the other, so that practically there is no difference in the number of passengers that can be carried or the limit of progress. The majority of persons, however, prefer the boats to the cars, inasmuch as there is the utter absence of the constant jar which seems to be inevitably attached to the trolley. While there are generally five cars to the train that travels on the rails, the boat trains often consist of six. In the first of these latter the accumulator battery is carried, together with the towing apparatus. The largest sewer through which the visitor travels is that under the Boulevard Sebastopol des Malesherbes. The next largest is that beneath the Rue de Rivoli. The first-named sewer is eighteen feet four and one-half inches wide and ten feet high. The conduit is three feet and a half deep and nine feet ten inches wide. It is in these larger sewers that the boats are used. Nearly all the others employ the cars.

A WOMAN DIES OF RABIES.

Bitten by a Dog, She Expires Three Months Later.

Miss Jennie E. Glatigny died of rabies at her home at Seventh and Bull streets yesterday morning about 2 o'clock. Her sufferings from spasms of the throat and larynx just before her death were terrible, and it was impossible to do anything for her relief, says the Savannah (Ga.) News of March 23. Dec. 29 Miss Glatigny took her dog and went out for a walk toward Mr. Kiesling's place, a short distance from her home. When near there she saw two dogs, one of which attacked her dog, and when she took a stick to beat it off the other dog sprang at her and bit her through the right hand, between the thumb and forefinger. Miss Glatigny went on to Mrs. Kiesling's, where some turpentine was applied to the wound and after some days it healed up. On Jan. 12 it broke out again and Dr. Stanley was called. He pricked the hand and let out a small accumulation of pus, after which it healed again and she took no further notice of it until Thursday, March 18, seventy-nine days after the bite, when, about 12 o'clock noon, she began to feel a pain in the hand, which ran up the arm, through the shoulder and down her side. She was very restless Friday night and in the morning and complained that the pain kept annoying her. She was about the same Friday night and Saturday morning about 10 o'clock she sent for Dr. George H. Stone. When Dr. Stone called he found her suffering from this pain, but there were no other symptoms and it appeared that she had taken cold. The pain was easily relieved and it did not return. She had one choking spell and on the return of Dr. Stone Sunday morning she complained that she had not slept through the night, though she had suffered no pain. She then showed signs of rabies in her inability to swallow and from then until 2 o'clock in the morning, when she died, there was a constant succession of spasms whenever she attempted to drink water. Although she wished for water eagerly, and would hold a glass of it in her hand for an hour at a time, while the sight of it did not seem disagreeable to her, yet when she attempted to swallow it her effort would make the spasms of the throat still more intense and these kept up continuously to the time of her death, nature being unable to endure longer the severe strains produced. Miss Glatigny was conscious to the time of her death. She knew those about her and would talk when she had long enough relief from the constantly recurring spasms of the throat to do so. Her case was accompanied by all of the other symptoms of rabies, such as extreme nervous irritability. Touching her nose at attempting to blow it would bring on a severe spasm, as would also any draught of air, no matter how slight. On one occasion the suggestive treatment was tried and she was finally enabled to drink a glass of water through the induced belief that she could do it. But this could not be kept up and the spasms became more frequent and more severe until death relieved her. Yesterday morning Dr. Stone and Drs. Graham and Brunner held an autopsy for the purpose of making a thorough investigation of the case. There was no doubt in the minds of any of them that it was a true case of rabies. They took some of the virus and will cultivate it and try its effect on some animal, such as a rabbit, for the purpose of more thoroughly understanding the case.

THE JAPANESE AND DEATH.

As Courteous as They Are Theatrical and Artistic.

I have just spoken of the Japanese as behaving simply at funerals. That is only partially correct, says St. Paul's. They are quiet, but not quite simple—so quiet that their manner seems simple. As a matter of fact, they take an elaborate part in the prescribed rites, bowing here, bending there, strewing prayers to the right and sweetmeats to the left. But it is all done "with good accent and with good discretion." They have the art of arts, the art that hides art. Let me dwell upon this thought a moment. Let me put it another way, for it is one of the most beautiful things that can be said of the Japanese. They have learned to apply to life and to art (there life and art are almost one) the great art principles that Hamlet proclaimed to the players. They in the very torrent, tempest and the whirlwind of passion have acquired and begot a temperance that gives it smoothness. They are not "too tame." Discretion is their tutor, and they o'erstep not the modesty of nature. And on no other occasion is this splendid national characteristic of smooth, discreet behavior and appropriate action so noticeable or so grateful as when a number of Japanese gather together about the deathbed, the coffin or the grave of friend or kinsman. The Japanese are as courteous as they are theatrical and artistic. Their courtesy and their art are very closely allied. Their keen sense of courtesy and their unflagging practice of it has, I believe, as much to do with the quietness and fitness of their funerals as has their fine artistic instinct. They are as a nation even prouder and more studious, I think, of their courtesy than of their artistic excellence. "Cry; it will do you good!" I said once to a poor Japanese woman who, crouching beside her dying husband, was controllnig herself with an effort that would, I feared, make her ill. She laid her little, slim brown finger upon her trembling red lip and shook her head, then whispered: "It might disturb him." "Cry; it will do you good!" I said the next day when the man was dead, and she seemed almost prostrate with grief and over-enforced control. "It would be most rude to make a hideous noise before the sacred dead," came the soft reply.

DON'T DO IT.

Avoid Discussing Irritating Subjects at the Dinner Table.

Why is it that in most households the dinner table become a dumping ground for the wholesale plaints of its members? Probably because this is the only meal of the day when the entire family meet together, and each one feels it a duty to air a few personal grievances in order to seek consolation from the others, says the Boston Herald.

Out of deference to digestion, if for no other reason, dinner table conversation should be of the spiciest, but this fact is lost sight of in the general desire of everybody, from papa down to the youngsters, to serve up only those topics which have marred rather than made the day's happiness. Hardly has the man of the house finished his carving duties before he falls into an animated financial discussion with his wife. Household expenses are rehashed, bills grumbled over, and the cost of living recalculated with tedious regularity. Mother in her turn eagerly pours into any listening ear her domestic woes. The day's errors below stairs are minutely recorded. She sighs over Bridget's butter waste, declares that the butcher's indifference to her order is becoming intolerable, and so on. Then the small boy (poor little target for family flaw-picking) comes in for his share of criticism. His failures at school are relentlessly raked up and all sorts of punishments threatened unless there is speedy reform. If there are guests present this talk of the inner circle is, for courtesy's sake, given a less personal flavor, but only then. "Good cheer and plenty of it" is not the motto of the average family dinner.

Inextinguishable Fire.

An extended account is given in the Cincinnati Enquirer of John Floyd's discovery of a peculiar kind of fire, inextinguishable when once ignited. It is represented as a substance having the consistency of paste, and harmless while in a quiet state; the friction caused by rubbing it against a hard substance will, however, set it aglow, and nothing will overcome the flame, the latter burning with a blue light and an intense heat until the compound is completely destroyed by combustion, water having no effect upon it. Dynamite and gunpowder require a spark to ignite them, while powder produces an explosion, but not a regular fire; but to ignite this compound there is just the slightest friction of rubbing it against some ordinary substance—there is then no explosion or rapid speading of flames, but a strange, living fire, incapable of being stamped out or killed in any known way. The inventor states his unwillingness to make the ingredients of this composition known, on account of risks to the public by so doing.

Where American Cabs Go.

New Yorkers wonder, perhaps, what has become of the gaudy omnibuses which once plied up and down Fifth avenue. Many of them are now in service at the cape, taking people to and from the docks. It was odd to see painted on the sides of these 'buses the old familiar pictures representing Indians chasing buffaloes or a scene on the Hudson river. And besides the American 'buses I noticed here, as in other parts of South Africa, a large number of light American wagons, from the trotting buggy to the comfortable family carriage whose roof partly shelters the driver.—Harper's Magazine.

Party in Municipal Affairs.

The Citizens' Union of New York aims to constitute in municipal affairs a party for the abolition of power. A civic servant cannot serve two masters. If he owes office to a party machine, that is the master he will serve, whose punishment he will dread, whose rewards he will try to deserve. The city he will regard as an orange to be squeezed for his master or for himself. Just as long as there is party control, and partisans are human, this will inevitably be. When the citizens can be taught to see that municipal affairs have nothing to do with national politics then they will cast out national politics from municipal affairs. They will realize that the city is a great stock company in which they are all shareholders. They will demand that their business, like the business of a bank, be run by the most honest and competent men, whether Republican or Democrat. They will fiercely resent any attempt to prostitute civic affairs to political ends. — The Illustrated American.

Why She Left.

Mrs. Timmins—I hear your cook has left you. What was the trouble? Mrs. Rockwell—Our kitchen is so small that she had to put her bicycle in the cellar and she thought the dampness wasn't good for it.—Cleveland Plain Dealer.

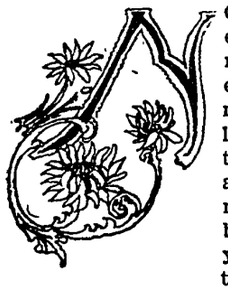
Probably.

"I've noticed an Indian hanging around the entrance for several days," said the theatrical manager. "Do you know who he is?" "I strongly suspect that he is a scalper," remarked the ticket agent.—Philadelphia American.

A MAN CAN ENDURE.

LIVES WITHOUT MUCH DIFFICULTY IN THE EXTREMES.

One Result of Nansen's Expedition—The Records of Meteorological Observations Are Very Valuable in Several Ways.



NOT the least interesting of the many results of Nansen's expedition are the records of meteorological observations that were continued almost uninterruptedly for the better part of three years, and which throw distinct light upon the climatic conditions of the far north. These show, says the Indianapolis news, what had already been suspected by scientists, that, so far as a minimum temperature is concerned, the highest northern latitudes are more favorably situated than many regions lying full fifteen or twenty degrees (approximately 1,000-1,400 miles) farther to the south. The lowest reading of Nansen's thermometer, registered on board the Fram, was 61.5 degrees Fahrenheit, or some 12 to 15 degrees higher than the minimum noted by the British polar expedition of 1875-6, and 8 degrees above the minimum of Kane. The lowest winter temperature recorded by Mr. Peary was 53 degrees Fahrenheit. In strange contrast to this in itself sufficiently severe temperature are the rigors of certain less favored localities lying south. Thus, in the Kara sea, which lies between Nova Zembla and Siberia, and whose center is approximately crossed by the seventy-third parallel of latitude, a temperature of 61 degrees is by no means uncommon, and the sea, partly from this cause and partly from the fact that it is largely choked with ice, has justly received the name of the "ice cellar" of Eurasia.

At Yakutsk, in Siberia, a well-known governmental post, lying considerably southward or outside of the arctic circle, a temperature of from 70 to 80 degrees below is reported almost annually; and at Verkhojansk, which is situated almost within the same broad region, but somewhat on the polar side of the circle, there is a registry of 92 degrees for the month of January, 1894. Prof. Mohn, the distinguished Norwegian scientist, asserts, moreover, that at the Russian station at the mouth of the Lena river, Siberia, the extraordinary low temperature of 94 degrees Fahrenheit has been recorded.

That man should be able to endure, one might say almost with impunity, such excessive severity of climate is not a little remarkable, and it is more surprising when it is considered in connection with his endurance of the opposite extreme, that is, the highest summer temperature. We have as yet, perhaps, no absolutely reliable data for the highest sun temperature on the earth's surface, but it may safely be assumed to be in the neighborhood of or even beyond 150 degrees. It is claimed by Alexander Von Humboldt that Ritchie observed near Mourzouk, in northern Africa, a temperature (in a measure reflected from the desert sands) of 135 degrees in the shade, which is probably the highest that comes authoritatively from the records of travelers. If this is true, then there can be little doubt that the sun temperature was fully 15 degrees higher. With the two extremes before us, then, we have for the human subject a climatic resistance of at least 244 degrees, or 32 degrees more than is found in the range between zero and the boiling point of water. How much more than this man could endure it is difficult to say, but doubtless many degrees could yet be added to either side of the thermometric scale without materially or necessarily affecting his system. His resistance to the temperature of furnace rooms, as is evidenced in the work of stokers on board the transatlantic liners, is an indication of this. And yet more the remarkable experiments recently conducted by the eminent physicist Raoul Pictet upon his own person, when by artificial processes he subjected his body to a temperature of 165 degrees.

In Love with a Beautiful Girl.

C. G. writes that he is in love with a beautiful girl. He is twenty-three years old; she is twenty. The mother objects to him, but the father is willing they should marry. C. G. says he is willing to settle down and go to work to make a living for both. He wants advice as to the best course to take. Answer: It seems as though C. G. may have himself to blame for the mother's opposition. If he declares that he is willing to settle down and go to work, the inference is that he has been doing quite the reverse. Maybe this is the cause of all the trouble. Wouldn't it be a very good idea for him to settle down and go to work first, that when he has demonstrated his ability to care for a wife he may ask for the girl with some assurance that he may be found worthy to have her. Very few parents are willing to surrender their daughters to the care of men who have no reasonable or apparent prospect of being able to take care of them. If, at the age of twenty-three, you have never settled down, you must take yourself well in hand and completely change your habits of life. When you have accomplished something worth while, probably you will not have to overcome the mother's dislike.

Salvation to Serenade a Dying Woman.

While Sergeant-Major Brown lay dying of consumption in Oakland, Cal., the Salvation Army band was playing under her windows the tunes she knew and loved so well. Soon after the serenade she passed away.

A Queer Fact About Vision.

In the eye itself certain things may go on which give us wrong sensations, which, although not truly illusions, are very much like them. Thus, when we suddenly strike our foreheals or faces against something in the dark, we see "stars," or bright sparks, which we know are not real lights, though they are quite as bright and sparkling as if they were. When we close one eye and look straight ahead at some word or letter in the middle of this page, for example, we seem to see not only the thing we are looking at but everything else immediately about it and for a long way on each side. But the truth is there is a large round spot, somewhere near the point at which we are looking, in which we see nothing. Curiously enough, the existence of this blind spot was not discovered by accident and nobody ever suspected it until Mariotte reasoned from the construction of the eyeball that it must exist and proceeded to find it.—St. Nicholas.

Are We Toadies?

There are officers of the Legion of Honor, comrades of the Grand Army, Sons of the Revolution, Knights of pythias, Daughters of the Revolution, Colonial Dames, societies of the Dutch, societies of New England, the Southern society, and how many more I know not. Then each of these has its ribbon, or its button, or its badge, and in no country in Europe do you hear so many titles or see so many insignia worn. This is all very pretty fooling, and harmless enough were it frank and outspoken. But it is not. These same people toady to foreign noblemen as do no other people in the world. Politically they are loud, blatant even, in the reiteration of their republicanism, but socially they are tuft-hunters.—American and Americans, from a French Point of View.

COURSING LIZARDS.

The Amusement of a Tame Eagle in the Arizona Desert.

In St. Nicholas, Wolcott Le Clerq Beard writes of "Moses: a Tame Eagle," which was one of his pets while he was engaged in engineering in Southern Arizona. Mr. Beard says: "He was very fond of the lizards with which these plains abounded, and one large variety, called 'swifts,' from their remarkable speed in running, seemed to be especially coveted. Whenever one of these was caught, which was not often, Moses would be brought out, and after the swift had taken ten feet start would be set free. The lizard would promptly resolve itself into a white streak across the desert, and, screaming with excitement, half running, half flying, Moses would pursue, followed by the laughing crowd, of which only those on horseback had much chance of keeping up. It was in no sense a cruel sport; it amused Moses and us and didn't hurt the swift, for he got away every time; and if the feelings of our pet were a trifle injured as he returned, perched on some one's wrist or saddle-horn, from his fruitless hunt, these were speedily soothed by the prompt gift of a nice bit of fresh beef, so no one was the worse. The lizards, however, he seemed to view as a sort of desert, and as he could absorb an unlimited quantity, they were always in demand. A certain stick kept on the veranda of our office was generally under his eye; and when any one picked this up and started for a walk across the desert Moses would hop gravely along behind, sure that some of his favorite dainties would soon be forthcoming. Of course, Moses was perfectly well able to catch the smaller kinds of lizards for himself, but there was less exertion in allowing some one else to do it for him; and exertion, at this period of his life, was a thing to which Moses was violently opposed. These occasions were almost the only ones when he would be silent for any length of time; for he seemed to understand perfectly that at the first note of his voice every lizard within hearing would run for his life to the nearest refuge; and only when a blow of the stick failed for the second or third time to reach its mark would he give utterance to his deep disgust at such clumsiness."

Diamonds on the Finger Nails.

Millionaire women have a new eccentricity which they are quite sure they can reserve for their own exclusive use. The imitating multitudes will be debarred from the sincerest form of flattery by their lack of ducats. They will, therefore, be compelled to remain in the background to covet and admire. This new millionaire fad is to wear diamonds on the finger nails. This is so very simply accomplished that one wonders why millionaires have never thought of it before. When one considers how very easy a matter it is to attach diamonds to the ends of one's fingers it becomes a matter of painful regret that finger nails have remained unornamented so many thousand years. The new fashion, which has all the glory and prestige of an invention along more scientific lines, decrees that women with bank accounts long enough to permit of this costly trifling shall have a tiny gold cap made for each of their fingers. From the cap is suspended on the outer side a big diamond drop, which sparkles most satisfactorily, there being one large sparkle for each finger nail. Of course, the sparkles are not so conspicuous as they would be if a large number of rings were not worn at the same time, but society is hardly yet ready for the great sacrifice which the laying off of rings would entail. Some day, perhaps, the finger nail adornments may be allowed to shine in undiminished glory.

LIGHTHOUSE IMPROVEMENTS.

Changes That Have Been Made in Lights and Lenses.

Meantime the means of lighting was being steadily improved. The open fire gave place to the oil lamp; then a curved mirror, called a parabolic mirror, was placed behind the lamps to bring the rays together; next, many lamps with mirrors were grouped about a central spindle, and some such lights are still in operation, says St. Nicholas. The greatest stride came when an arrangement of lenses, known as the Fresnel lens, in front of a lamp replaced the miror behind it. This lens was rapidly improved for lighthouse purposes, until now a cylindrical glass house surrounds the lamp flame. This house has lens-shaped walls, which bend all the rays to form a horizontal zone of strong light which pierces the darkness to a great distance. The rapid increase in the number of lighthouses has made it necessary to have some means of telling one from another, or, as it is termed, of giving to each light its "characteristic." Coloring the glass made the light dimmer, but as red comes most nearly to white light in brightness, some lights have red lenses. The latest and best plan, however, is to set upright prisms at intervals in a circular framework around the lens and to revolve this frame by clockwork. Thus the light is made to flash every time a prism passes between it and an observer. By changing the number and places of the prisms, or the speed of the clockwork, the flashes of any one light can be made to occur at intervals of so many seconds for that light. Putting in red prisms gives still other changes. Thus each light has its "characteristic," and this is written down in signs on the charts and fully stated in the light-lists carried by vessels. Thus, on a chart you may note that the light you want to sight is marked "F. W., v. W. Fl., 10-sec.," which means that it is "fixed white varied by white flashes every ten seconds." When a light is sighted you see if those are its characteristics; and, if so, you have found the right one.

The Plucking of Fowls.

The Australian method of plucking fowls possesses the advantages of being rapid and easy. As soon as the birds are dead, plunge each in turn into a pail of boiling water, into which one and a half pint of cold water has been thrown (the object is just to scald them), taking care that the water reaches every part of the feathers. One minute's sousing is generally sufficient; if kept in too long, the skin is apt to discolor, and, if not long enough, the feathers will not easily draw. Every feather can now be stripped off in the easiest possible manner—in fact, they can almost be brushed off. The skin never tears, and the insects that infest all chickens will have disappeared. When clear, pump on the birds to rinse off the wet feathers that still adhere, wipe tenderly with a soft cloth, and hang up to dry with a cloth fastened loosely round. This is to keep them from the air and preserve them white. By this means all the feather stumps are perfectly removed. Ducks cannot be treated in the same manner, as the oil in the feathers prevents the water from penetrating.

Warwhoops on the Scaffold.

Not yet extinguished is the spirit of the Indian warrior's death chant in the northwest. Charcoal, an Indian murderer of one of the mounted police at McLeod, Manitoba, was so infirm in the legs that he had to be carried to the scaffold, but he died full of defiance, giving three ringing warwhoops as he was taken up the stairs.

Some Rambling Thoughts by Nemo.

To Young Men:—Remember how small a place money ought to have in your calculations: at any rate that you shbuld never reckon your success by the amount of money you make. Even granting that you are toiling in order to win a wife, if money is your sole standard you will lay at her feet the least valuable gift if you bring not to her a clean mind, an upright life, and a soul above robbery. And he that maketh haste to be rich runs danger of stooping to things so mean and so contemptible that he is not fit to be the husband of any wife or the possibly father of any living children, though he be wealthy as most golden dream can fancy.

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Remember that courage—the quality you so much admire and about which you possibly use such false estimates—is not measured by the strength of the arm nor a readiness to die. Bodily courage is sometimes only the mark of a coarse-grained nature—mere insensibility to danger, like the mad frenzy of a bull. Real courage, is that of the mind that will keep you working on in the face of defeat, or that enables you to dare great purposes, when the way to their accomplishment is like the way to an Alpine summit, only stained by cheerful self-denial and the constant crying to that inner purpose, "Excelsior! Excelsior! !" It requires more than a broad chest to stand a sneer, more than a fearless eye to turn from the pleading glances of a pleasure-loving woman, more than mere muscle to keep on doing those things that are of good report when all the companions of your youth call you a fool.

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Remember that disappointments build the muscles of our character, much as walking strengthens our bodies. It is the things we have to struggle with that make us men. Some few geniuses seem able at a leap to accomplish whatever their hearts are set upon, but the vast majority of us attain our ambitions only by stern purposes and unwavering. If a tide just drags us along we are as dead things or sticks; if we swim against it, we grow more and more in power. Welcome the north wind, my beloved; it is cruel to be kind; it would seem to wrest thy all from thee only to make thee hold on the faster.

"Here s to the men who lose!
The touchstone of true worth is not success,
There is a higher test—
Though fate may darkly frown, onward to press,
And bravely do one's best.

Here's to the men who lose!
If triumph's easy smile our struggles greet,
Courage is easy then;
The king is he who, after fierce defeat,
Can up and fight again."

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Remember that mistakes are not neccessaryily fatal. Show me a man who has never made a mistake, and I will show you a lazy good-for-nothing who has escaped errors of judgment and conduct by being too indolent to attempt anything. Mistakes are good schoolmasters; they show us that we know not, in order that we may be better able to know. A mistake is a danger signal that warns into new, more careful and more thoughtful ways, And I do not limit the utility of a mistake merely to the range of studies and business, I refer even to awful mistakes in morals, to social sins that are sweet to the taste and bitter in effects. These may teach and purify, if we will but drag ourselves away from them and think them over at a distance.

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Remember that he who goeth to accomplish great things for himself or for the world, needs not to be known to be weak and immoral in order to lose his power of accomplishment; a wrong thing done need have no witness in order to undo a man. Yielding to a darling sin takes away the ability to be all you might be; not because your friends know you to be a doer of evil, but because you know yourself to be so, and the traitor within the citadel of your honor and purpose does not remain undiscovered, for the traitor is the professed defender.

***

Remember that I can safely go one step further and assert to you who think—may your number multiply—a still more noteworthy thing about yielding to evil. The thought of wrong, cherished as a pleasant thing, is enough to unnerve you without waiting for the deed to be done. Cardinal Newman says very wisely and very beautifully:

But he who lets his thoughts run on
In soft luxurious flow,
Faints when hard service must be done
And shrinks at every foe.

The thought is father to the deed. We talk of dissipation for the body; there is a dissipation of the mind, and that is found in letting the thoughts run unchecked, particularly if they are of an unclean character.

***

Remember in following that last thought that there is a dissipation of the mind, even apart from filthy musings; it is found in being insufficiently severe with yourself. Remember also that there may even be spiritual dissipation, when, in the higher regions of thought that effects men's souls and future destinies, you let your spiritual desires run riot until all who fail to believe with you are believed to be in the wrong. Remember too the common fault of bodily dissipation. I beg of you to remember as sensible beings that the powers you in your overflowing youth regard as solely given for your pleasure, are merely an inheritance from your parents to be passed on spotless and undefiled to your children.

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Remember that a spider dipped in ink can make scrawls across paper, that a dog can scratch earth, that a monkey can daub paint, but the intelligence of a human being is needed to gain meaning and profit and fame from any or all of these acts. Your sheep is a follower of instincts equally as much when mature as it was when it frisked its restless tail and fled affrighted from moving objects. Neither honor nor dishonor attaches to its life, save that it has been all it could be. But you are a man; born a creature of instinct yet capable of becoming a creature of thought, whose use of life has within it the possibilities of shame or of esteem. If you merely follow your instincts, you are less worthy than an animal, for it has done all it could, and you have not. Be a man, dear fellow, and venerate yourself; then no matter how humble your lot in life, you will be a worthy comrade of those who through the patient ages have led us away from mere animalism.

Cheap Rates to the Tennessee Centennial at Nashville, Tenn.

Round trip good for 20 days, $60.94, good until Nov. 7th $83.10. Tickets on sale every day from now until Oct. 15th, 1897.

To Colorado Springs, account G. A. R. encampment at $20.90 per round trip. Tickets on sale May 9th and 10th good until May 15th.

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Among Our Churches.

People's Church, Rev. W. T. Jordan, pastor. Morning service at 11 a. m. Text. 1 Tim. 6:12. "Fight the good fight of the faith." Sunday-school at 2:30 p. m. Y. P. S. C. E. meeting at 6:45 p. m. Evening service at 7:30 p. m. Subject "The Lost Sheep." Free seats and a welcome for all.

Judging from the way in which the church was crowded last Sunday evening, there is no need of telling any of our readers of the crowded church or of the service, for every one seemed to be there to see and hear for themselves.

To await the growing of a soul is an almost divine act of faith. How pardonable, surely, the impatience of deformity with itself, of a consciously despicable character, standing before Christ, wondering, yearning, hungering to be like that. Yet must one trust the process fearlessly and without misgiving. "The Lord the Spirit" will do his part... The creation of a new heart, the renewing of a right spirit, is an omnipotent work of God. No man, nevertheless, who feels the worth and solemnity of what is at stake will be careless as to his progress. To become like Christ is the only thing in the world worth caring for. Those only who make this quest the supreme desire of their lives can even begin to hope to reach it.—*Henry Drummond.*

Your life needs days of retirement, when it shuts the gales upon the noisy whirl of action and is alone with God.

The true fast is the making of an emptiness about the soul that the higher fullness may fill it.

Even men have felt, when they suffered supremely in submission to God, that their submissive souls sprang into freer sympathy with God and understanding of his plans; what then must it have been for him who was God, self-clouded in humanity for a while, when, submissive to the Godhood in his suffering, the cloud broke from him and the long exile was finished, and the divinity of the Son swept through the encumbrance of the human life and laid itself close to the divinity of the Father.—*Phillip Brooks.*

We know that we are made in the image of God because we cannot in our best moments accept any standard but this—of perfection to be sought after through eternity; the grandeur of our being is that there will always be something beyond for us to seek.—*Lucy Larcom.*

O God, O kinsman loved but not enough,
O man with eyes majestic after death,
Whose feet have toiled along our pathways rough,
Whose lips drawn human breath;

By that one likeness which is ours and thine,
By that one nature which doth hold us kin,
By that high heaven where sinless thou dost shine,
To draw us sinners in;

By thy last silence in the judgment hall,
By long foreknowledge of the deadly tree,
By darkness, by the wormwood and the gall,
I pray thee visit me.

—*Jean Ingelow.*

SILVERTON METHODIST EPISCOPAL CHURCH.

The choir in the M. E. church has been re-organized, adding to the original choir some efficient helpers, viz: Mrs. Dr. Pascoe, Mrs. Liverman, Mr. and Mrs. Shoemaker and G. A. Kennedy. Mrs. Dr. Pascoe presides at the organ and director of the choir. Morning anthem, entitled "I will sing."—Excell. Evening anthem, "The Beautiful Golden Gate."—Leslie.

The services of the M. E. church will be held regularly in the Odd Fellows hall, every Sabbath at 11 a. m. and 7:30 p. m. Sabbath school at 2:30 p. m. Epworth League on Wednesday evening at 8 p. m. J. H. Scott.

Progress at Telluride,

The Telluride district is not as active as usual at this time of the year. The backward season is one of the causes for this.

None of the big companies are working their full force of men. The Tom Boy will put 75 more men on the middle of next month. The Smuggler Union will increase their force with 50 men on the first of June. The Columbia is gradually increasing their crew. They expect to have a full force by the 20th of this month. There is a small force working on the Cimmaron driving to cut the Montana vein. It will be the middle of July before the camp picks up to near its old time activity.

Mr. Hathaway is making a sale on the Contention group. This is about the only sale that will be made in the district. In the city of Telluride there is a good deal of improvement going on. The streets are being put in fine shape. The county commissioners have furnished funds to shovel on the trail into Bridal Veil basin besides doing work on other trails in the camp. I think our commissioners could copy after their San Miguel brothers and not hurt the county to any great extent financially besides encouraging mine owners to pack their ore to market. To day Silverton is the best camp in the state. We will have the largest tonnage output that has been obtained in years. But what is the matter with the Fourth of July celebration. W.

Correspondent - Silver Lake Mine.

We hear of new discoveries and inventions nearly every day. One time it will be an airship or an improvement on one and at another some new motive power is found but the latest important discovery comes from a Mr. Holden of this place. He claims to have found a means of converting the energy generated by snow slides into electricity and storing it for future use. The plan given by Mr. Holden it to place an electric generator, similar to those now in use, with a few improvements made by himself, in some convenient place where snow is known to accumulate during the winter months and directly in front is placed a shaft with a coil of wire around each end and as long as the mountain is high. This shaft is to be in twenty foot lengths with flexible couplings and with pulley of large diameter in centre. The bearings on which the shaft revolves is a very ingenious device, and one of the few subjects Mr. Holden will converse upon. The pully in the centre of shaft is to be connected by wire belt with generator and the whole machine placed on a revolving frame, that it may be turned to face any point of the compass the operator may desire. The wires around the end of the shaft or "gocometer," as he calls this part of the machine, are uncoiled a few feet and placed below the top of the mountain, so enough snow remains above to start the slide. Then when a few feet of snow falls on the paddles at the end of wires—for there is a wheel here similar to a waterwheel—and draws the wires from around the shaft causing it to revolve at an enormous rate. This wheel, Mr. H. claims, will be carried above the snow, if the slides proves a small one and by revolving as it goes along will not be liable to accident. If it proves a large one the machine will be picked up entirely and carried down the hill. This wheel is to be made of aluminum and copper. The weight of snow on the wires causes the gocometer to revolve at a high speed and these in turn gives a speed five times greater to the generator. An ordinary snowslide generates a current of 75,000 volts and is delivered to an "ecumulator" or storage battery. This electrical power Mr. H. claims, he can deliver to any point within a radius of twenty miles without the use of wires by the aid of an invention of his own in the shape of a distributor, as he calls it. This is carried by "comscation" to the motors. The latter contrivence is of pecular design which he hopes to be able to explain in a future article. Mr. H. regrets that the snow is disappering so rapidly and fears he will not be able to put this to practical use until next fall. N.

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DANIEL D DUGI
Age: **65** SSN: 449-11-xxxx
Utility Locator - Connect Date: 3/18/2015
DANIEL DUGI
Age: **65** SSN: 449-11-xxxx
Utility Locator - Connect Date: 9/2/2010
DANIEL A DUGI
Age: **65** SSN: 449-11-xxxx
DANIEL DUGI
Age: **65** SSN: 449-11-xxxx
Utility Locator - Connect Date: 9/2/2010
DAN D DUGI
Age: **65** SSN: 449-11-xxxx
DAN DUGI
Age: **65** SSN: 449-11-xxxx
DAN DUGI
Age: **65** SSN: 449-11-xxxx
DAN A DUGI
Age: **65** SSN: 449-11-xxxx

Indicators

Bankruptcy: **No**
Property: **Yes**
Corporate Affiliations: **Yes**

DAN D DUGI
Age: **65** SSN: 449-11-xxxx
DAVID DUGI
Age: **65** SSN: 449-11-xxxx
D DUGI
Age: **65** SSN: 449-11-xxxx
DAW D DUGI
Age: **65** SSN: 444-11-xxxx
DANIEL D DUGIII
Age: **65** SSN: 467-75-xxxx

Collapse All

Others Associated With Subjects SSN:

(DOES NOT usually indicate any type of fraud or deception)

[None Found]

Address Summary: View All Address Variation Sources

2500 N ESPLANADE ST STE 102, CUERO, TX 77954-4727, DEWITT COUNTY (Feb 2011 - Jul 2020)
146 POST OAK WAY APT 77954, CUERO, TX 77954-2228, DEWITT COUNTY (Nov 1998 - Sep 2020)
502 E LIVE OAK ST, CUERO, TX 77954-2965, DEWITT COUNTY (Jan 2014 - 2019)
12 TIERRA VERDE DR, DURANGO, CO 81301-7789, LA PLATA COUNTY (Jan 2007 - Oct 2017)
1980 COUNTY ROAD 233, FLORESVILLE, TX 78114-3381, WILSON COUNTY (Jul 2003 - Apr 2016)
PO BOX 53, POTH, TX 78147-0053, WILSON COUNTY (2012 - Aug 2013)
2750 HOLLY HALL ST APT 1120, HOUSTON, TX 77054-4165, HARRIS COUNTY (Mar 2000 - Mar 2009)
DANIEL DUGI JR 146 POST OAK, CUERO, TX 77954, DEWITT COUNTY (Oct 2005)
146 POD ONE WAY, CUERO, TX 77954, DEWITT COUNTY (Mar 2005)
202 POST OAK WAY, CUERO, TX 77954-2232, DEWITT COUNTY (Aug 1990 - Jul 2004)
3943 CORTEZ DR, DALLAS, TX 75220-5014, DALLAS COUNTY (May 2004)
327 MACON CRK, VICTORIA, TX 77901-3645, VICTORIA COUNTY (Aug 2002)
RR 4, FLORESVILLE, TX 78114-9804, WILSON COUNTY (Mar 2000 - Jan 2001)
106 W REUSS BLVD, CUERO, TX 77954-3510, DEWITT COUNTY (Jan 1978 - Mar 1995)
120 POST OAK WAY, CUERO, TX 77954-2228, DEWITT COUNTY (Jan 1978 - Oct 1993)
1302 TERRELL ST, CUERO, TX 77954-3400, DEWITT COUNTY (Jan 1978 - Mar 1990)
2584 NW OVERTON ST, PORTLAND, OR 97210-2441, MULTNOMAH COUNTY
2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY (Jan 1997 - Apr 2020)

Active Address(es): View All Address Variation Sources

[None Found]

Previous And Non-Verified Address(es): View All Address Variation Sources

2500 N ESPLANADE ST STE 102, CUERO, TX 77954-4727, DEWITT COUNTY
(Feb 2011 - Jul 2020)

Name Associated with Address:

DANIEL D DUGI JR

Current Residents at Address:

CAROLYN DALE DENTON
WILLIAM KEVIN DENTON
DANIEL DAVID DUGI
MARK ALAN HEARD
DAVID PARNELL HILL
RAYMOND RANDOLPH REESE
SUSAN LYNN MIMS
ASHLEY LYNN HAGAN
SHERYL A MILLS
361-275-3466 - CDT CUERO MEDICAL CLINIC

Property Ownership Information for this Address

Property:

Parcel Number - 43560
Owner Name: CUERO MEDICAL ASSOCIATES PA
Property Address: - 2500 N ESPLANADE ST, CUERO, TX 77954-4723, DEWITT COUNTY
Owner Address: 2500 N ESPLANADE ST, CUERO, TX 77954-4723, DEWITT COUNTY
Total Market Value - $74,720
Improvement Value - $74,720
Legal Description - PERS PROP/INV/FURN/FIX/EQUIP 2500 N ESPLANADE STE 102 CUERO
Data Source - B

Neighborhood Profile (2010 Census)

Average Age: 38
Median Household Income: $40,431
Median Owner Occupied Home Value: $143,895
Average Years of Education: 11

146 POST OAK WAY APT 77954, CUERO, TX 77954-2228, DEWITT COUNTY
(Nov 1998 - Sep 2020)

Name Associated with Address:

DANIEL D DUGI JR
361-277-3528

Neighborhood Profile (2010 Census)

Average Age: 47

Median Household Income: $61,856
Median Owner Occupied Home Value: $102,193
Average Years of Education: 13

502 E LIVE OAK ST, CUERO, TX 77954-2965, DEWITT COUNTY (Jan 2014 - 2019)

Name Associated with Address:

DAN DUGI JR

Current Residents at Address:

CONNIE CHRISTINE CATRON
KEITH WAYNE CATRON
PATRICK J KOLIBA JR

Property Ownership Information for this Address

Property:

Parcel Number - 7159
Owner Name: DANIEL D DUGI LexID: 000700170916
Property Address: - 146 POST OAK WAY, CUERO, TX 77954-2228, DEWITT COUNTY
Total Market Value - $453,310
Assessed Value - $356,770
Land Value - $36,540
Improvement Value - $416,770
Land Size - 106,112 Square Feet
Legal Description - 4 C GLEN OAKS CUERO
Data Source - A

Neighborhood Profile (2010 Census)

Average Age: 47
Median Household Income: $33,298
Median Owner Occupied Home Value: $80,000
Average Years of Education: 13

12 TIERRA VERDE DR, DURANGO, CO 81301-7789, LA PLATA COUNTY (Jan 2007 - Oct 2017)

Name Associated with Address:

DANIEL D DUGI

Property Ownership Information for this Address

Property:

Parcel Number - 3858
Book - 496
Page - 62
Owner Name: DAN DUGI JR LexID: 000700170916
Owner Name 2: DUGI BLI LexID: 001611000928
Property Address: - 502 E LIVE OAK ST, CUERO, TX 77954-2965, DEWITT COUNTY
Sale Date - 12/19/2013
Land Usage - SFR
Total Market Value - $170,760
Assessed Value - $170,760
Land Value - $6,480
Improvement Value - $164,280
Land Size - 9,448 Square Feet
Seller Name: KEITH W CATRON LexID: 000402733099

Seller Name 2: CONNIE C CATRON LexID: 000402728485
Legal Description - PT 1.2 22 CUERO 90X105 502 E LIVE OAK
Data Source - A

Neighborhood Profile (2010 Census)

Average Age: 32
Median Household Income: $71,289
Median Owner Occupied Home Value: $411,739
Average Years of Education: 16

1980 COUNTY ROAD 233, FLORESVILLE, TX 78114-3381, WILSON COUNTY (Jul 2003 - Apr 2016)

Name Associated with Address:

DANIEL DUGI

Current Residents at Address:

DANIEL DAVE DUGI
830-393-2125

Property Ownership Information for this Address

Property:

Parcel Number -
Owner Name: DAN DUGI JR LexID: 000700170916
Owner Name 2: BENEFIT PENSION PLAN AND TRUST
Property Address - 12 TIERRA VERDE DR, DURANGO, CO 81301-7789, LA PLATA COUNTY
Owner Address: 146 POST OAK WAY, CUERO, TX 77954-2228, DEWITT COUNTY
Sale Date - 01/10/2007
Sale Price - $639,300
Seller Name: 3S LLC
Data Source - B

Neighborhood Profile (2010 Census)

Average Age: 39
Median Household Income: $68,902
Median Owner Occupied Home Value: $93,800
Average Years of Education: 12

PO BOX 53, POTH, TX 78147-0053, WILSON COUNTY (2012 - Aug 2013)

Name Associated with Address:

DAN D DUGI JR

Property Ownership Information for this Address

Property:

Parcel Number - 0104-00000-01902
Owner Name: MICHAEL SCHEFFLER LexID: 002265576826
Owner Name 2: TRACIE SCHEFFLER LexID: 000873252177
Property Address: - 1980 COUNTY ROAD 233, FLORESVILLE, TX 78114-3381, WILSON COUNTY
Total Market Value - $470,520
Assessed Value - $65,750
Land Value - $423,190
Improvement Value - $47,330

Land Size - 6,583,658 Square Feet
Year Built - 2003
Legal Description - A0104 A FLORES SUR, TRACT 19, ACRES 151.14
Data Source - A

Neighborhood Profile (2010 Census)

Average Age: 36
Median Household Income: $68,885
Median Owner Occupied Home Value: $117,642
Average Years of Education: 11

2750 HOLLY HALL ST APT 1120, HOUSTON, TX 77054-4165, HARRIS COUNTY (Mar 2000 - Mar 2009)

Name Associated with Address:

DANIEL D DUGIII
713-440-8495

Neighborhood Profile (2010 Census)

Average Age: 31
Median Household Income: $51,651
Median Owner Occupied Home Value: $121,250
Average Years of Education: 17

DANIEL DUGI JR 146 POST OAK, CUERO, TX 77954, DEWITT COUNTY (Oct 2005)

Name Associated with Address:

DANIEL D DUGI JR

Property Ownership Information for this Address

Property:

Parcel Number - 115-820-012-0020
Owner Name: WANG YUANCHIN LexID: 192938838771
Property Address: - 2750 HOLLY HALL ST APT 1120, HOUSTON, TX 77054-4165, HARRIS COUNTY
Sale Date - 12/17/2014
Subdivision Name - BRIARWICK CONDO PH 02
Total Market Value - $106,122
Assessed Value - $106,122
Land Value - $20,483
Improvement Value - $85,639
Land Size - 70,079 Square Feet
Year Built - 1984
Seller Name: SHUTYEE J YEUNG LexID: 002783951002
Legal Description - UNIT 1120 BLDG L .5641 INT COMMON LAND & ELE BRIARWICK CONDO PH 2
Data Source - A

Neighborhood Profile (2010 Census)

Average Age: 47
Median Household Income: $61,856
Median Owner Occupied Home Value: $102,193
Average Years of Education: 13

146 POD ONE WAY, CUERO, TX 77954, DEWITT COUNTY (Mar 2005)

Name Associated with Address:
DANIEL D DUGI JR
Neighborhood Profile (2010 Census)
Average Age: 47
Median Household Income: $61,856
Median Owner Occupied Home Value: $102,193
Average Years of Education: 13

202 POST OAK WAY, CUERO, TX 77954-2232, DEWITT COUNTY (Aug 1990 - Jul 2004)
Name Associated with Address:
DANIEL DAVID DUGI JR
512-275-2381

Neighborhood Profile (2010 Census)
Average Age: 47
Median Household Income: $61,856
Median Owner Occupied Home Value: $102,193
Average Years of Education: 13

3943 CORTEZ DR, DALLAS, TX 75220-5014, DALLAS COUNTY (May 2004)
Name Associated with Address:
DANIEL D DUGIII
Current Residents at Address:
LINDSEY CATELIN EMERSON
JAMES FRANCIS BAKER
Neighborhood Profile (2010 Census)
Average Age: 48
Median Household Income: $117,925
Median Owner Occupied Home Value: $260,345
Average Years of Education: 16

327 MACON CRK, VICTORIA, TX 77901-3645, VICTORIA COUNTY (Aug 2002)
Name Associated with Address:
DANIEL D DUGI JR
Current Residents at Address:
JUDITH N WILLIAMS
TIMOTHY DALE WILLIAMS
MEREDITH JOANN WILLIAMS
361-572-9237 - CDT WILLIAMS JUDITH N

Property Ownership Information for this Address
Property:
Parcel Number - 00-00052-947-700-0000
Owner Name: JAMES FRANCIS BAKER LexID: 154451367668
Property Address: - 3943 CORTEZ DR, DALLAS, TX 75220-5014, DALLAS COUNTY
Sale Date - 02/23/2016
Sale Price - $328,000
Subdivision Name - RIDGECREST VILLAGE

Total Market Value - $328,000
Assessed Value - $328,000
Land Value - $275,000
Improvement Value - $53,000
Land Size - 9,705 Square Feet
Year Built - 1951
Seller Name: BOWLER BEVERAGE INVESTMENTS
Legal Description - RIDGECREST VILLAGE BLK H/6175 LOT 23
INT201600050982 DD02232016 CO-DC 6175 00H 02300 1006175 00H
Loan Amount - $262,400
Loan Type - CONVENTIONAL
Lender Name - BENCHMARK MTG
Data Source - A

Neighborhood Profile (2010 Census)

Average Age: 34
Median Household Income: $84,104
Median Owner Occupied Home Value: $113,636
Average Years of Education: 13

RR 4, FLORESVILLE, TX 78114-9804, WILSON COUNTY (Mar 2000 - Jan 2001)

Name Associated with Address:

DAN DUGI

Property Ownership Information for this Address

Property:

Parcel Number - 88286
Owner Name: TIMOTHY D WILLIAMS LexID: 002729433188
Owner Name 2: JUDITH O WILLIAMS LexID: 001895796021
Property Address: - 327 MACON CRK, VICTORIA, TX 77901-3645, VICTORIA COUNTY
Subdivision Name - EAGLE CREEK PH III
Total Market Value - $207,390
Assessed Value - $207,390
Land Value - $14,010
Improvement Value - $193,380
Land Size - 6,490 Square Feet
Year Built - 2001
Legal Description - EAGLE CREEK PHASE III, BLOCK 3, LOT 33
Data Source - A

106 W REUSS BLVD, CUERO, TX 77954-3510, DEWITT COUNTY (Jan 1978 - Mar 1995)

Name Associated with Address:

DANIEL D DUGI JR

Current Residents at Address:

ALFRED JOHN BOHMAN

Current phones listed at this address:

361-275-9755 - CDT BLOOMINGDEALS RESALE SHOPPE

512-275-2381

Neighborhood Profile (2010 Census)
Average Age: 47
Median Household Income: $29,635
Median Owner Occupied Home Value: $51,944
Average Years of Education: 11

120 POST OAK WAY, CUERO, TX 77954-2228, DEWITT COUNTY
(Jan 1978 - Oct 1993)

Name Associated with Address:
DAN D DUGI JR
361-275-8666

Property Ownership Information for this Address
Property:
Parcel Number - 7468
Owner Name: CUERO COMMUNITY HOSPITAL
Owner Name 2: DEWITT MEDICAL DISTRICT
Property Address: - 106 W REUSS BLVD, CUERO, TX 77954-3510, DEWITT COUNTY
Owner Address: 2550 N ESPLANADE ST, CUERO, TX 77954-4736, DEWITT COUNTY
Total Market Value - $242,050
Assessed Value - $242,050
Land Value - $22,760
Improvement Value - $219,290
Legal Description - 47 PT559 JAVY GONZALES EXEMPT
Data Source - B

Neighborhood Profile (2010 Census)
Average Age: 47
Median Household Income: $61,856
Median Owner Occupied Home Value: $102,193
Average Years of Education: 13

1302 TERRELL ST, CUERO, TX 77954-3400, DEWITT COUNTY
(Jan 1978 - Mar 1990)

Name Associated with Address:
DAN D DUGI JR

Current Residents at Address:
RONNY DALE BELDIN
JENNIFER LEE BELDIN
GEORGIA M POKLUDA

Current phones listed at this address:
361-210-5054 - CDT BELDIN RONNY D

361-275-8666

Neighborhood Profile (2010 Census)

Average Age: 47
Median Household Income: $29,635
Median Owner Occupied Home Value: $51,944
Average Years of Education: 11

2584 NW OVERTON ST, PORTLAND, OR 97210-2441, MULTNOMAH COUNTY

Name Associated with Address:

DANIEL DUGI

Current Residents at Address:

DANIEL DAVID DUGI 3
JUDITH WALLACE MCMILLAN
HEMANGINI JAYENDRAKUMAR THAKAR
JAY H THAKAR
JAY H THAKAR

Property Ownership Information for this Address

Property:

Parcel Number - 1723
Owner Name: RONNY D BELDIN LexID: 000175080106
Owner Name 2: JENNY BELDIN LexID: 000175395434
Property Address: - 1302 TERRELL ST, CUERO, TX 77954-3400, DEWITT COUNTY
Sale Date - 04/20/2016
Subdivision Name - BRAYTON PARK SUB
Total Market Value - $161,840
Assessed Value - $161,840
Land Value - $18,520
Improvement Value - $143,320
Land Size - 19,589 Square Feet
Year Built - 1965
Seller Name: JOHN D BLACKWELL LexID: 000214749111
Legal Description - 1.2 2 BRAYTON PARK CUER
Data Source - A

Neighborhood Profile (2010 Census)

Average Age: 39
Median Household Income: $53,328
Median Owner Occupied Home Value: $518,939
Average Years of Education: 18

2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY (Jan 1997 - Apr 2020)

Name Associated with Address:

DANIEL DAVID DUGI JR

Current Residents at Address:

DEBORAH CHRISTINA AGUILAR
DANIEL DAVID DUGI
361-275-3561

Neighborhood Profile (2010 Census)

Average Age: 38
Median Household Income: $40,431

Median Owner Occupied Home Value: $143,895
Average Years of Education: 11

- Bankruptcies:

  [None Found]

- UCC Filings:
  [None Found]

- Phones Plus:

Phones Plus1
Name: DANIEL DUGI
Address: 106 W REUSS BLVD, CUERO, TX 77954-3510
Phone Number: 361-275-2381 - CDT

Phone Type: Mobile
Carrier: SOUTHWESTERN BELL - (CUERO, TX)

Phones Plus2
Name: DANIEL DUGI
Address: 202 POST OAK WAY, CUERO, TX 77954-2232
Phone Number: 361-275-2381 - CDT

Phone Type: Mobile
Carrier: SOUTHWESTERN BELL - (CUERO, TX)

Phones Plus3
Name: DANIEL DUGI
Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727
Phone Number: 361-275-2381 - CDT

Phone Type: Mobile
Carrier: SOUTHWESTERN BELL - (CUERO, TX)

Phones Plus4
Name: DAN DUGI
Address: 2500 N ESPLANADE ST, CUERO, TX 77954-4723
Phone Number: 361-275-3561 - CDT

Phone Type: Mobile
Carrier: SOUTHWESTERN BELL - (CUERO, TX)

Phones Plus5
Name: DANIEL DUGI
Address: 146 POST OAK WAY, CUERO, TX 77954-2228
Phone Number: 361-277-3528 - CDT

Carrier: SOUTHWESTERN BELL - (CUERO, TX)

Phones Plus6
Name: DANIEL DUGI
Address: 146 POST OAK WAY, CUERO, TX 77954-2228
Phone Number: 361-571-4452 - CDT

Phone Type: Mobile
Carrier: NEW CINGULAR WRLS IL - (VICTORIA, TX)

Phones Plus7
Name: DANIEL DUGI
Address: 2750 HOLLY HALL ST APT 1120, HOUSTON, TX 77054-4165
Phone Number: 713-440-8495 - CDT

Phone Type: Mobile
Carrier: VERIZON WIRELESS-TX - (HOUSTON, TX)

Phones Plus8
Name: DANIEL DUGI
Address: 1980 COUNTY ROAD 233, FLORESVILLE, TX 78114-3381
Phone Number: 830-393-2125 - CDT

Carrier: FRONITER COMM OF TX - (FLORESVILLE, TX)

People at Work:

Maximum 50 People at Work records returned

Name: DANIEL D DUGI JR
Title: DIRECTOR
LexID: 000700170916
SSN: 449-11-xxxx
Company: MANUS, INC.
Phone:
FEIN:
Dates: Mar 17, 2017 - Feb 5, 2020

Name: DANIEL D DUGI JR
Title: VICE PRESIDENT
LexID: 000700170916
SSN: 449-11-xxxx
Company: MANUS, INC.
Phone:
FEIN:
Dates: Mar 17, 2017 - Feb 5, 2020

Name: DANIEL D DUGI JR
Title: FAMILY PRACTITIONER

LexID: 000700170916
SSN: 449-11-xxxx
Company: CUERO MEDICAL CLINIC
Address: 2500 N ESPLANADE ST STE 102, CUERO, TX 77954-4727
Phone: ✔361-275-3466 - CDT

FEIN:
Dates: Jun 1, 2019 - Jun 29, 2019

Name: DANIEL D DUGI JR
Title: MEDICAL DIRECTOR
LexID: 000700170916
SSN: 449-11-xxxx
Company: KENEDY HEALTH AND REHABILITATION
Address: 7882 S HIGHWAY 181, KENEDY, TX 78119
Phone: ✔830-583-9101 - CDT

FEIN:
Dates: Jun 1, 2019 - Jun 29, 2019

Name: DANIEL D DUGI JR
Title: FAMILY PRACTITIONER
LexID: 000700170916
SSN: 449-11-xxxx
Company: CUERO MEDICAL
Address: 2500 N ESPLANADE ST STE 102, CUERO, TX 77954-4727
Phone: 361-275-3466 - CDT

FEIN:
Dates: Feb 5, 2018 - May 3, 2019

Name: DANIEL D DUGI JR
Title: MEDICAL DIRECTOR
LexID: 000700170916
SSN: 449-11-xxxx
Company: MISSION NURSING & REHAB
Address: 1010 MACARTHUR ST, CUERO, TX 77954-2317
Phone: ✔361-277-6133 - CDT

FEIN:
Dates: Oct 1, 2013 - Feb 26, 2019

Name: DAN DUGI
Title: CHIEF OF MEDICAL STAFF
LexID: 000700170916
SSN: 449-11-xxxx
Company: CUERO COMMUNITY HOSPITAL
Address: 2550 N ESPLANADE ST, CUERO, TX 77954-4736
Phone: ✔361-275-1250 - CDT

FEIN:
Dates: Sep 30, 2012 - Feb 26, 2019

Name: DANIEL D DUGI JR
Title: FAMILY PRACTITIONER
LexID: 000700170916
SSN: 449-11-xxxx
Company: NIXON FAMILY PRACTICE
Address: 200 E 2ND ST, NIXON, TX 78140-2737
Phone: ✔830-582-2571 - CDT

FEIN:
Dates: May 27, 2012 - Feb 26, 2019

Name: DANIEL D DUGI
Title: FAMILY PRACTITIONER
LexID: 000700170916
SSN: 449-11-xxxx
Company: CUERO MEDICAL
Address: 2500 N ESPLANADE ST STE 102, CUERO, TX 77954-4727
Phone: 361-275-3466 - CDT

FEIN:
Dates: May 13, 2018 - Jun 24, 2018

Name: DANIEL D DUGI JR
Title: FAMILY PRACTITIONER
LexID: 000700170916
SSN: 449-11-xxxx
Company: BOHMAN CLINIC
Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727
Phone: ✔361-275-3561 - CDT

FEIN:
Dates: Oct 25, 2008 - Nov 23, 2017

Name: DANIEL DUGI
Title: DIRECTOR
LexID: 000700170916
SSN: 449-11-xxxx
Company: CUERO ISD EDUCATION FOUNDATION, INC.
Phone:
FEIN:
Dates: Mar 17, 2017 - Aug 19, 2017

Name: DANIEL D DUGI
Title: PRESIDENT
LexID: 000700170916

SSN: 449-11-xxxx
Company: PHYSICIAN ASSISTANT & PHYSICIAN SERVICES, RECRUITING & MANAGEMENT, INC.
Phone:
FEIN:
Dates: Mar 17, 2017

Name: DANIEL DUGI
Title: MEMBER
LexID: 000700170916
SSN: 449-11-xxxx
Company: HEALTH FIRST OF TEXAS, P.A.
Phone:
FEIN:
Dates: Mar 17, 2017

Name: DANIEL D DUGI JR
Title: MEMBER
LexID: 000700170916
SSN: 449-11-xxxx
Company: BANDAGE MAN GROUP, LLC
Phone:
FEIN:
Dates: May 4, 2010 - Mar 17, 2017

Name: DANIEL D DUGI JR
Title: MEMBER
LexID: 000700170916
SSN: 449-11-xxxx
Company: CASA DOS PALAPAS, LLC
Phone:
FEIN:
Dates: Jun 3, 2009 - Mar 17, 2017

Name: DANIEL D DUGI JR
Title: MEMBER
LexID: 000700170916
SSN: 449-11-xxxx
Company: DUGI GROUP, LLC
Phone:
FEIN:
Dates: May 30, 2009 - Mar 17, 2017

Name: DANIEL D DUGI JR
Title: DIRECTOR
LexID: 000700170916
SSN: 449-11-xxxx
Company: VIVUS, INC.
Phone:

FEIN:
Dates: May 17, 2008 - Mar 17, 2017

Name: DANIEL D DUGI
Title: DIRECTOR
LexID: 000700170916
SSN: 449-11-xxxx
Company: SOUTHWEST ASSOCIATIONS OF RURAL HEALTH CLINICS
Phone:
FEIN:
Dates: Jun 11, 2007 - Mar 17, 2017

Name: DANIEL D DUGI
Title: DIRECTOR
LexID: 000700170916
SSN: 449-11-xxxx
Company: PHYSICIAN ASSISTANT & PHYSICIAN SERVICES, RECRUITING & MANAGEMENT, INC.
Phone:
FEIN:
Dates: Jun 11, 2007 - Mar 17, 2017

Name: DAN DUGI
Title: DIRECTOR
LexID: 000700170916
SSN: 449-11-xxxx
Company: NIXON MED GROUP, INC.
Phone:
FEIN:
Dates: Jun 11, 2007 - Mar 17, 2017

Name: DANIEL D DUGI JR
Title: DIRECTOR
LexID: 000700170916
SSN: 449-11-xxxx
Company: BARNWOOD & RUSTY TIN, INC.
Phone:
FEIN:
Dates: Jun 11, 2007 - Mar 17, 2017

Name: DANIEL D DUGI JR
Title: MEMBER
LexID: 000700170916
SSN: 449-11-xxxx
Company: WHISTLER RIDGE, PA
Phone:
FEIN:
Dates: Jun 11, 2007 - Mar 17, 2017

Name: DANIEL D DUGI JR
Title: FAMILY PRACTITIONER
LexID: 000700170916
SSN: 449-11-xxxx
Company: NIXON FAMILY PRACTICE
Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727
Phone: 830-582-1222 - CDT

FEIN:
Dates: Dec 3, 2012 - Oct 30, 2016

Name: DANIEL DUGI
Title: DIRECTOR
LexID: 000700170916
SSN: 449-11-xxxx
Company: CUERO ISD EDUCATION FOUNDATION, INC.
Address: 405 PARK HEIGHTS DR, CUERO, TX 77954-2132
Phone: 361-275-1900

FEIN:
Dates: Jul 2, 2008 - Oct 27, 2015

Name: DANIEL D DUGI JR
Title: VICE PRESIDENT
LexID: 000700170916
SSN: 449-11-xxxx
Company: MANUS, INC.
Address: 123 NORTHWOOD DR, CUERO, TX 77954-5007
Phone:
FEIN:
Dates: Feb 9, 2006 - Aug 4, 2015

Name: DANIEL DUGI
Title: MEMBER
LexID: 000700170916
SSN: 449-11-xxxx
Company: HEALTH FIRST OF TEXAS, P.A.
Address: PO BOX 3648, VICTORIA, TX 77903-3648
Phone: 361-576-2940

FEIN:
Dates: Jul 8, 2005 - Jul 18, 2015

Name: DANIEL D DUGI
Title: ATTENDING PHYSICIAN
LexID: 000700170916
SSN: 449-11-xxxx
Company: CUERO COMMUNITY HOSPITAL
Address: 2550 N ESPLANADE ST, CUERO, TX 77954-4736

Phone: ✔361-275-1250 - CDT

FEIN:
Dates: Jan 1, 2014 - Nov 15, 2014

Name: DANIEL D DUGI JR
Title: DIRECTOR
LexID: 000700170916
SSN: 449-11-xxxx
Company: MANUS, INC.
Address: 123 NORTHWOOD DR, CUERO, TX 77954-5007
Phone:
FEIN:
Dates: Feb 9, 2006 - Sep 8, 2013

Name: DANIEL D DUGI
LexID: 000700170916
SSN: 449-11-xxxx
Company: CUERO COMMUNITY HOSPITAL
Address: 2550 N ESPLANADE ST, CUERO, TX 77954-4736
Phone: ✔361-275-1250 - CDT

FEIN:
Dates: Jan 7, 2010 - Dec 1, 2012

Name: DANIEL D DUGI JR
Title: CONTACT
LexID: 000700170916
SSN: 449-11-xxxx
Company: BANDAGE MAN GROUP LLC
Address: 146 POST OAK WAY, CUERO, TX 77954-2228
Phone:
FEIN:
Dates: Apr 30, 2010

Name: DANIEL D DUGI JR
Title: CONTACT
LexID: 000700170916
SSN: 449-11-xxxx
Company: DUGI GROUP LLC
Address: 146 POST OAK WAY, CUERO, TX 77954-2228
Phone:
FEIN:
Dates: May 29, 2009

Name: DANIEL D DUGI JR
Title: MEMBER
LexID: 000700170916
SSN: 449-11-xxxx

Company: DUGI GROUP LLC
Address: 146 POST OAK WAY, CUERO, TX 77954-2228
Phone:
FEIN:
Dates: May 29, 2009

Name: DANIEL D DUGI JR
Title: MEMBER
LexID: 000700170916
SSN: 449-11-xxxx
Company: CASA DOS PALAPAS, A TEXAS LIMITED LIABILITY COMPANY
Phone:
FEIN:
Dates: Apr 28, 2009

Name: DANIEL D DUGI JR
Title: CONTACT
LexID: 000700170916
SSN: 449-11-xxxx
Company: CASA DOS PALAPAS A TEXAS LIMITED LIABILITY COMPAN
Address: 146 POST OAK WAY, CUERO, TX 77954-2228
Phone:
FEIN:
Dates: Apr 27, 2009

Name: DAN D DUGI
Title: FAMILY PRACTITIONER
LexID: 000700170916
SSN: 449-11-xxxx
Company: BOHMAN CLINIC
Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727
Phone: ✔361-275-3561 - CDT

FEIN:
Dates: Mar 21, 2005 - Jul 19, 2008

Name: DANIEL D DUGI MD
Title: PHYSICIAN
LexID: 000700170916
SSN: 449-11-xxxx
Company: U OF TX SOUTHWESTERN MED CTR
Address: 5323 HARRY HINES BLVD, DALLAS, TX 75390-7208
Phone: ✔214-645-2400

FEIN:
Dates: Mar 7, 2007 - Jun 6, 2008

Name: DANIEL D DUGI
Title: PHYSICIAN

LexID: 000700170916
SSN: 449-11-xxxx
Company: BOHMAN CLINIC
Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727
Phone: ✔361-275-3561

FEIN:
Dates: Aug 23, 2005 - Jun 6, 2008

Name: DANIEL D DUGI MD
Title: PHYSICIAN
LexID: 000700170916
SSN: 449-11-xxxx
Company: BOHMAN CLINIC
Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727
Phone: ✔361-275-3561

FEIN:
Dates: Aug 23, 2005 - Jun 6, 2008

Name: DANIEL D DUGI JR
Title: CONTACT
LexID: 000700170916
SSN: 449-11-xxxx
Company: VIVUS INC
Address: 146 POST OAK WAY, CUERO, TX 77954-2228
Phone: 361-277-3528

FEIN:
Dates: May 1, 2008 - Jun 1, 2008

Name: DANIEL D DUGI JR
LexID: 000700170916
SSN: 449-11-xxxx
Company: VIVUS INC
Address: 146 POST OAK WAY, CUERO, TX 77954-2228
Phone: 361-277-3528

FEIN:
Dates: May 15, 2008

Name: DANIEL D DUGI JR
LexID: 000700170916
SSN: 449-11-xxxx
Company: VIVUS INC
Address: 146 POST OAK WAY, CUERO, TX 77954-2228
Phone: 361-277-3528

FEIN:

Dates: May 15, 2008

Name: DANIEL D DUGI JR
Title: DIRECTOR
LexID: 000700170916
SSN: 449-11-xxxx
Company: VIVUS INC
Address: 146 POST OAK WAY, CUERO, TX 77954-2228
Phone: 361-277-3528

FEIN:
Dates: May 1, 2008 - May 15, 2008

Name: DANIEL D DUGI JR
Title: DIRECTOR;VICE PRESIDENT
LexID: 000700170916
SSN: 449-11-xxxx
Company: MANUS, INC.
Address: 123 NORTHWOOD DR, CUERO, TX 77954-5007
Phone:
FEIN:
Dates: Dec 2, 2007 - Dec 31, 2007

Name: DANIEL D DUGI JR
Title: DIRECTOR
LexID: 000700170916
SSN: 449-11-xxxx
Company: BARNWOOD & RUSTY TIN, INC.
Address: 146 POST OAK WAY, CUERO, TX 77954-2228
Phone: 361-277-3528

FEIN:
Dates: Jun 10, 2005 - Jul 6, 2006

Name: DANIEL D DUGI
Title: DIRECTOR
LexID: 000700170916
SSN: 449-11-xxxx
Company: BARNWOOD & RUSTY TIN, INC.
Address: 146 POST OAK WAY, CUERO, TX 77954-2228
Phone: 361-277-3528

FEIN:
Dates: Aug 18, 2005 - Jun 13, 2006

Name: DANIEL D DUGI
Title: DIRECTOR
LexID: 000700170916
SSN: 449-11-xxxx

Company: MANUS, INC.
Address: 123 NORTHWOOD DR, CUERO, TX 77954-5007
Phone:
FEIN:
Dates: Aug 18, 2005 - Jun 13, 2006

Name: DANIEL D DUGI
Title: VICE PRESIDENT
LexID: 000700170916
SSN: 449-11-xxxx
Company: MANUS, INC.
Address: 123 NORTHWOOD DR, CUERO, TX 77954-5007
Phone:
FEIN:
Dates: Aug 18, 2005 - Jun 13, 2006

Name: DANIEL D DUGI
Title: DIRECTOR
LexID: 000700170916
SSN: 449-11-xxxx
Company: PHYSICIAN ASSISTANT & PHYSICIAN SERVICES, RECRUITING & MANAGEMENT, INC.
Address: 130 NORTHWOOD DR, CUERO, TX 77954-5006
Phone:
FEIN:
Dates: Nov 4, 2003 - Jun 13, 2006

Name: DANIEL D DUGI
Title: P
LexID: 000700170916
SSN: 449-11-xxxx
Company: PHYSICIAN ASSISTANT & PHYSICIAN SERVICES, RECRUITING & MANAGEMENT, INC.
Address: 130 NORTHWOOD DR, CUERO, TX 77954-5006
Phone:
FEIN:
Dates: Nov 4, 2003 - Jun 13, 2006

Name: DAN DUGI
Title: DIRECTOR
LexID: 000700170916
SSN: 449-11-xxxx
Company: NIXON MED GROUP, INC.
Address: 2500 N ESPLANADE ST, CUERO, TX 77954-4723
Phone:
FEIN:
Dates: Nov 4, 2003 - Jun 13, 2006

Possible Properties Owned by Subject:

Property:
Parcel Number - 7159
Owner Name: DANIEL D DUGI LexID: 000700170916
Property Address: - 146 POST OAK WAY, CUERO, TX 77954-2228, DEWITT COUNTY
Total Market Value - $453,310
Assessed Value - $356,770
Land Value - $36,540
Improvement Value - $416,770
Land Size - 106,112 Square Feet
Legal Description - 4 C GLEN OAKS CUERO
Data Source - A

Property:
Parcel Number - 3858
Book - 496
Page - 62
Owner Name: DAN DUGI JR LexID: 000700170916
Owner Name 2: DUGI BLI LexID: 001611000928
Property Address: - 502 E LIVE OAK ST, CUERO, TX 77954-2965, DEWITT COUNTY
Sale Date - 12/19/2013
Land Usage - SFR
Total Market Value - $170,760
Assessed Value - $170,760
Land Value - $6,480
Improvement Value - $164,280
Land Size - 9,448 Square Feet
Seller Name: KEITH W CATRON LexID: 000402733099
Seller Name 2: CONNIE C CATRON LexID: 000402728485
Legal Description - PT 1.2 22 CUERO 90X105 502 E LIVE OAK
Data Source - A

Property:
Parcel Number - 48290160010018
Owner Name: DANIEL D DUGI JR LexID: 000700170916
Owner Name 2: MARSTON BLI DUGI LexID: 001611000928
Property Address: - SILVERTON, CO 81433
Owner Address: 146 POST OAK WAY, CUERO, TX 77954-2228, DEWITT COUNTY
Total Market Value - $31,530
Assessed Value - $9,144
Land Value - $31,530
Legal Description - LITTLE GERTIE REVISED - 15122. ACCORDING TO THE DUGI BOUNDARY LINE ADJUSTMENT RECORDED PLAT FILED FOR RECORD OCTOBER 17 2007
Data Source - B

Property:
Parcel Number - 18581
Book - 449
Page - 766
Owner Name: DAN DUGI LexID: 000700170916
Property Address - 1030 US HIGHWAY 183 N, CUERO, TX 77954-7400, DEWITT COUNTY
Owner Address: 146 POST OAK WAY, CUERO, TX 77954-2228, DEWITT COUNTY
Sale Date - 10/25/2012
Seller Name: AUDREY L PETERS LexID: 001959313048
Data Source - A

Property:
Parcel Number - 0104-00000-01901
Owner Name: DANIEL DUGI LexID: 000700170916
Owner Name 2: MARGARET DUGI LexID: 000699692523
Property Address: - 1980 COUNTY ROAD 233, FLORESVILLE, TX 78114-3381, WILSON COUNTY
Owner Address: PO BOX 53, POTH, TX 78147-0053, WILSON COUNTY
Total Market Value - $417,200
Assessed Value - $17,140
Land Value - $417,200
Land Size - 6,490,440 Square Feet
Legal Description - A0104 A FLORES SUR, TRACT 19 (PT), ACRES 149.000
Data Source - A

Property:
Parcel Number -
Owner Name: DAN DUGI JR LexID: 000700170916
Owner Name 2: BENEFIT PENSION PLAN AND TRUST
Property Address - 12 TIERRA VERDE DR, DURANGO, CO 81301-7789, LA PLATA COUNTY
Owner Address: 146 POST OAK WAY, CUERO, TX 77954-2228, DEWITT COUNTY
Sale Date - 01/10/2007
Sale Price - $639,300
Seller Name: 3S LLC
Data Source - B

Watercraft:
[None Found]

FAA Certifications:
[None Found]

FAA Aircrafts:
[None Found]

Possible Criminal Records:
[None Found]

Sexual Offenses:
[None Found]

Professional License(s):

Professional License 1
Name: DANIEL DAVID DUGI
Gender: MALE
License Address: 2500 N ESPLANADE ST STE 102, CUERO, TX 77954-4727, DEWITT COUNTY
License State: Texas
License Number: F6592
License Type: PHYSICIAN:FAMILY PRACTICE
Profession/Board: MEDICAL
License Status: ACTIVE
Issue Date: Aug 24, 1980
Expiration Date: Nov 30, 2020
Obtained By: EXAM

Professional License 2
Name: DANIEL DAVID DUGI
Gender: M
License Address: 2500 N ESPLANADE ST STE 102, CUERO, TX 77954-4727, DEWITT COUNTY
License State: Texas
License Number: 6592
License Type: FAMILY MEDICINE
License Status: A
Issue Date: Aug 24, 1980
Expiration Date: Nov 30, 2020

Professional License 3
Name: DANIEL DAVID DUGI JR
Gender: M
License Address: 2500 N ESPLANADE ST STE 102, CUERO, TX 77954-4727, DEWITT COUNTY
License State: Texas
License Number: F6592
License Type: DOCTOR
Profession/Board: PHYSICIAN
License Status: AC
Issue Date: Aug 24, 1980
Expiration Date: Nov 30, 2020

Professional License 4
Name: DANIEL DAVID DUGI JR
Gender: M
License Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY
License State: Texas
License Number: 6592
License Type: FAMILY MEDICINE
License Status: A
Issue Date: Aug 24, 1980
Expiration Date: Nov 30, 2018

Professional License 5
Name: DANIEL DAVID DUGI JR
Gender: M
License Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY
License State: Texas
License Number: F6592
License Type: MEDICAL DOCTOR
Profession/Board: PHYSICIAN
License Status: AC
Issue Date: Aug 24, 1980
Expiration Date: Nov 30, 2018

Professional License 6
Name: DANIEL DAVID DUGI
Gender: MALE
License Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY
License State: Texas
License Number: F6592
License Type: PHYSICIAN:FAMILY PRACTICE
Profession/Board: MEDICAL
License Status: ACTIVE
Issue Date: Aug 24, 1980
Expiration Date: Nov 30, 2018
Obtained By: EXAM

Professional License 7
Name: DANIEL DAVID DUGI JR
Gender: M
License Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY
License State: Texas
License Number: 6592
License Type: FAMILY MEDICINE
License Status: A
Issue Date: Aug 24, 1980

Expiration Date: Nov 30, 2016

Professional License 8
Name: DANIEL DAVID DUGI JR
Gender: M
License Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY
License State: Texas
License Number: F6592
License Type: MEDICAL DOCTOR
Profession/Board: PHYSICIAN
License Status: AC
Issue Date: Aug 24, 1980
Expiration Date: Nov 30, 2016

Professional License 9
Name: DANIEL DAVID DUGI
Gender: MALE
License Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY
License State: Texas
License Number: F6592
License Type: PHYSICIAN:FAMILY PRACTICE
Profession/Board: MEDICAL
License Status: ACTIVE
Issue Date: Aug 24, 1980
Expiration Date: Nov 30, 2016
Obtained By: EXAM

Professional License 10
Name: DANIEL DAVID DUGI JR
Gender: M
License Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY
License State: Texas
License Number: 6592
License Type: FAMILY MEDICINE
License Status: A
Issue Date: Aug 24, 1980
Expiration Date: Nov 30, 2014

Professional License 11
Name: DANIEL DAVID DUGI
Gender: MALE
License Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY
License State: Texas
License Number: F6592
License Type: PHYSICIAN:FAMILY PRACTICE

Profession/Board: MEDICAL
License Status: ACTIVE
Issue Date: Aug 24, 1980
Expiration Date: Nov 30, 2014
Obtained By: EXAM

Professional License 12
Name: DANIEL DAVID DUGI JR
Gender: M
License Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY
License State: Texas
License Number: 6592
License Type: FAMILY MEDICINE
License Status: A
Issue Date: Aug 24, 1980
Expiration Date: Nov 30, 2012

Professional License 13
Name: DANIEL DAVID DUGI
Gender: MALE
License Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY
License State: Texas
License Number: F6592
License Type: PHYSICIAN:FAMILY PRACTICE
Profession/Board: MEDICAL
License Status: ACTIVE
Issue Date: Aug 24, 1980
Expiration Date: Nov 30, 2012
Obtained By: EXAM

Professional License 14
Name: DANIEL DAVID DUGI
Gender: MALE
License Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY
License State: Texas
License Number: F6592
License Type: PHYSICIAN:FAMILY PRACTICE
Profession/Board: MEDICAL
License Status: ACTIVE
Issue Date: Aug 24, 1980
Expiration Date: Nov 30, 2010
Obtained By: EXAM

Professional License 15
Name: DANIEL DAVID DUGI JR
Gender: M

License Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY
License State: Texas
License Number: F6592
License Type: FAMILY PRACTICE
Profession/Board: PHYSICIAN AND SURGEON OR OSTEOPATH
License Status: ACTIVE
Issue Date: Aug 24, 1980
Expiration Date: Nov 30, 2010

Professional License 16
Name: DANIEL DAVID DUGI
Gender: MALE
License Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY
License State: Texas
License Number: F6592
License Type: PHYSICIAN:FAMILY PRACTICE
Profession/Board: MEDICAL
License Status: ACTIVE
Issue Date: Aug 24, 1980
Expiration Date: Nov 30, 2008

Professional License 17

Gender: MALE
License Address: 2500 N ESPLANADE STE 101, CUERO, TX 77954-4727
License State: Texas
License Number: F6592
License Type: M.D.
Profession/Board: M.D.
Expiration Date: Nov 30, 2006

Professional License 18
Name: DANIEL DAVID DUGI
Gender: MALE
License Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY
License State: Texas
License Number: F6592
License Type: PHYSICIAN:FAMILY PRACTICE
Profession/Board: MEDICAL
Issue Date: Aug 24, 1980
Expiration Date: Nov 30, 2006

Professional License 19
Name: DANIEL DAVID DUGI
Gender: MALE
License Address: 2500 N ESPLANADE ST STE 101, CUERO, TX

77954-4727, DEWITT COUNTY
License State: Texas
License Number: F6592
License Type: PHYSICIAN:FAMILY PRACTICE
Profession/Board: MEDICAL
Issue Date: Aug 24, 1980
Expiration Date: Nov 30, 2005

Professional License 20
Name: DANIEL DAVID DUGI JR
Gender: MALE
License Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY
License State: Texas
License Number: F6592
License Type: FAMILY PRACTICE
Profession/Board: MEDICAL
License Status: ACTIVE
Issue Date: Aug 24, 1980
Expiration Date: Nov 30, 2004
Obtained By: EXAM

Professional License 21
Name: DANIEL DAVID DUGI JR
Gender: MALE
License Address: 2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY
License State: Texas
License Number: F6592
License Type: FAMILY PRACTICE
Profession/Board: MEDICAL
License Status: ACTIVE
Issue Date: Aug 24, 1980
Expiration Date: Nov 30, 2003
Obtained By: EXAM

Professional License 22

Gender: MALE
License Address: 2500 N ESPLANADE STE 101, CUERO, TX 77954-4727
License State: Texas
License Number: F6592
License Type: M.D.
Profession/Board: M.D.

Voter Registration:
Name: DANIEL DUGI
Address: 146 POST OAK WAY, CUERO, TX 77954-2228
LexID: 000700170916

DOB: 4/xx/1955
Gender: Male
Registration Date: 7/8/1984
State of Registration: Texas
Status: ACTIVE

Name: DANIEL DUGI
Address: 146 POST OAK WAY, CUERO, TX 77954-2228
LexID: 000700170916
DOB: 4/xx/1955
Gender: Male
Registration Date: 7/8/1984
Status: ACTIVE

Name: DANIEL DAVID DUGI
Address: 146 POST OAK WAY, CUERO, TX 77954-2228
LexID: 000700170916
DOB: 4/xx/1955
Gender: Male
Last Vote Date: 11/8/2016
Registration Date: 7/8/1984
Political Party: REPUBLICAN
State of Registration: Texas
Status: ACTIVE

Name: DANIEL DAVID DUGI
Address: 146 POST OAK WAY, CUERO, TX 77954-2228
LexID: 000700170916
DOB: 4/xx/1955
Gender: Male
Last Vote Date: 11/2/2010
Registration Date: 7/8/1984
State of Registration: Texas

- Hunting/Fishing Permit:
  [None Found]

- Concealed Weapons Permit:
  [None Found]

- Possible Associates:

DEBORAH CHRISTINA AGUILAR LexID: 000018164085 DOB: 6/xx/1982
462-95-xxxx issued in Texas between 1/1/1988 and 12/31/1988

Names Associated with Associate:
DEBORAH CHRISTINA ANDRADO LexID: 000018164085 DOB: 6/xx/1982
462-95-xxxx issued in Texas between 1/1/1988 and 12/31/1988
D AGUILAR LexID: 000018164085 DOB: 6/xx/1982
462-95-xxxx issued in Texas between 1/1/1988 and 12/31/1988

DEBOARAH C AGUILAR LexID: 000018164085 DOB: 6/xx/1982
462-95-xxxx issued in Texas between 1/1/1988 and 12/31/1988
DEBORAH AGUILAR-ANDRADO LexID: 000018164085 DOB: 6/xx/1982
462-95-xxxx issued in Texas between 1/1/1988 and 12/31/1988
Previous And Non-Verified Address(es):
433 LAKE FRST, CANYON LAKE, TX 78133-4467, COMAL COUNTY (Nov 2012 - Jul 2020)
2020 SUNDANCE PKWY STE A1, NEW BRAUNFELS, TX 78130-2771, COMAL COUNTY (2010 - Jul 2020)
2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY (Jan 1997 - Jul 2020)
955 LOOP 337, NEW BRAUNFELS, TX 78130-3556, COMAL COUNTY (Oct 2016)
919 HIDDEN RDG, IRVING, TX 75038-3813, DALLAS COUNTY (May 2016)
608 W JOHNSON ST, CUERO, TX 77954-3452, DEWITT COUNTY (Aug 2010 - May 2015)
18732 ROGERS GLN NA, SAN ANTONIO, TX 78258-4608, BEXAR COUNTY (Sep 2008 - Apr 2014)
1007 E 38TH 1/2 ST, AUSTIN, TX 78751-5218, TRAVIS COUNTY (Apr 2011 - Mar 2013)
1230 KINLEY LN, HOUSTON, TX 77018-5246, HARRIS COUNTY (Oct 2012 - Jan 2013)
1313 RED RIVER ST STE 303B, AUSTIN, TX 78701-1943, TRAVIS COUNTY (Sep 2011 - Nov 2012)

DINA D MARTINEZ LexID: 000699258177 DOB: 2/xx/1970
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

Names Associated with Associate:
DINA M D MARTINEZ LexID: 000699258177 DOB: 2/xx/1970
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

DINA M DUGI LexID: 000699258177 DOB: 2/xx/1970
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

DINA M DUGL LexID: 000699258177 DOB: 2/xx/1970
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

DINA M DUGIMARTINEZ LexID: 000699258177 DOB: 2/xx/1970
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

DINA DUGI MARTINEZ LexID: 000699258177 DOB: 2/xx/1970
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

DEANA MARTINEZ LexID: 000699258177 DOB: 2/xx/1970
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

DINA M DUGI MARTINEZ LexID: 000699258177 DOB: 2/xx/1970
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

DINA D MATINEZ LexID: 000699258177 DOB: 2/xx/1970
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

MARGARET R DUGI LexID: 000699258177 DOB: 2/xx/1970
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

MARTINEZ DINA DUGI LexID: 000699258177 DOB: 2/xx/1970
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

DINA M DUGI LexID: 000699258177 DOB: 1971
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

MARGARET A DUGI LexID: 000699258177 DOB: 2/xx/1970
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

DIANA MARTINEZ LexID: 000699258177 DOB: 2/xx/1970
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

DINA MARISA DUGI LexID: 000699258177 DOB: 2/xx/1970
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

DINA M DUGL LexID: 000699258177 DOB: 1971
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

DINA D MARTINEZ LexID: 000699258177 DOB: 1971
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

DINA MARISA DUGI LexID: 000699258177 DOB: 1971
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

DINA M MARTINEZDOUI LexID: 000699258177 DOB: 2/xx/1970
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

DINA M NASH LexID: 000699258177 DOB: 2/xx/1970
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982

Previous And Non-Verified Address(es):

308 LARCHMONT DR, SAN ANTONIO, TX 78209-4273, BEXAR COUNTY (Dec 2019 - Jul 2020)

102 ARCADIA PL APT 906, SAN ANTONIO, TX 78209-5866, BEXAR COUNTY (Apr 2016 - Jul 2020)

224 SOUTHWOOD OAKS DR, FLORESVILLE, TX 78114-4301, WILSON COUNTY (Oct 1993 - Sep 2018)

1007 JASMINE DR, FLORESVILLE, TX 78114-3003, WILSON COUNTY (Feb 1994 - May 2017)

386 PALOMA DR APT 233, FLORESVILLE, TX 78114-0009, WILSON COUNTY (Apr 2016)

9639 IVY BEND ST, SAN ANTONIO, TX 78250-2892, BEXAR COUNTY

(Nov 2010)
RR 5 BOX 2205, FLORESVILLE, TX 78114, WILSON COUNTY
(May 1992 - May 2001)
1980 COUNTY ROAD 233, FLORESVILLE, TX 78114-3381, WILSON COUNTY
(May 1999)
224 SW OAKS, FLORESVILLE, TX 78114, WILSON COUNTY
(Dec 1997 - Aug 1998)

JOHN H FRELS LexID: 000864751967 DOB: 11/xx/1954
453-80-xxxx issued in Texas between 1/1/1963 and 12/31/1964

Names Associated with Associate:

JOHN FRELS LexID: 000864751967 DOB: 11/xx/1954
453-80-xxxx issued in Texas between 1/1/1963 and 12/31/1964
JOHN HERBERT FRELS LexID: 000864751967 DOB: 11/xx/1954
453-80-xxxx issued in Texas between 1/1/1963 and 12/31/1964
JOHN FRELS LexID: 000864751967 DOB: 11/xx/1954
467-78-xxxx issued in Texas between 1/1/1963 and 12/31/1964
DRJOHN H FRELS LexID: 000864751967 DOB: 11/xx/1954
453-80-xxxx issued in Texas between 1/1/1963 and 12/31/1964
JOHN H FRELS LexID: 000864751967 DOB: 11/xx/1954
467-78-xxxx issued in Texas between 1/1/1963 and 12/31/1964
JOHN FREL LexID: 000864751967 DOB: 11/xx/1954
453-80-xxxx issued in Texas between 1/1/1963 and 12/31/1964
JOHN D FRELS LexID: 000864751967 DOB: 11/xx/1954
453-80-xxxx issued in Texas between 1/1/1963 and 12/31/1964
DRJOHN H FRELS LexID: 000864751967 DOB: 11/xx/1954
467-78-xxxx issued in Texas between 1/1/1963 and 12/31/1964
JOHN DDS LexID: 000864751967 DOB: 11/xx/1954
453-80-xxxx issued in Texas between 1/1/1963 and 12/31/1964

Previous And Non-Verified Address(es):

407 N BRIDGE ST, VICTORIA, TX 77901-6516, VICTORIA COUNTY
(Mar 2004 - Jul 2020)
401 CL DUCKETT DR, CUERO, TX 77954-2150, DEWITT COUNTY
(Nov 1998 - Jul 2020)
246 ROYAL OAKS 1 UNIT 1, YORKTOWN, TX 78164-5221, DEWITT COUNTY
(Nov 1998 - Jul 2020)
1707 W MAIN ST STE B, YORKTOWN, TX 78164-5127, DEWITT COUNTY
(Nov 1992 - Oct 2019)
306 ROYAL OAKS 1 UNIT 1, YORKTOWN, TX 78164-5219, DEWITT COUNTY
(May 2015)
PO BOX 576, YORKTOWN, TX 78164-0576, DEWITT COUNTY
(Aug 1981 - Mar 2015)
2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY (Feb 1995 - Feb 2015)
246 ROYAL OAKS ST APT 1, YORKTOWN, TX 78164, DEWITT COUNTY
(Feb 2001 - May 2013)
633 W 4TH ST, YORKTOWN, TX 78164-5003, DEWITT COUNTY
(Jan 1988 - Jan 2013)
RR 1 BOX 296, YORKTOWN, TX 78164-9736, DEWITT COUNTY

(Oct 1986 - May 2011)

JENNIFER LYNN GONZALES LexID: 000960575087 DOB: 3/xx/1973
449-77-xxxx issued in Texas between 1/1/1986 and 12/31/1986

Names Associated with Associate:

JENNIFER LYNN SIGSBEE LexID: 000960575087 DOB: 3/xx/1973
449-77-xxxx issued in Texas between 1/1/1986 and 12/31/1986
GONZALES J SIGSBEE LexID: 000960575087 DOB: 3/xx/1973
449-77-xxxx issued in Texas between 1/1/1986 and 12/31/1986
JENNIFER SIGSBEE GONZALES LexID: 000960575087 DOB: 3/xx/1973
449-77-xxxx issued in Texas between 1/1/1986 and 12/31/1986
J GONZALES LexID: 000960575087 DOB: 3/xx/1973
449-77-xxxx issued in Texas between 1/1/1986 and 12/31/1986
JENNIFER SIGSBEE LexID: 000960575087 DOB: 3/xx/1973
449-77-xxxx issued in Texas between 1/1/1986 and 12/31/1986
JENNIFER L SIGSBEE LexID: 000960575087 DOB: 3/xx/1973
449-77-xxxx issued in Texas between 1/1/1986 and 12/31/1986
JENNIFER LYNN SIGSBEE-GONZALES LexID: 000960575087 DOB: 3/xx/1973
449-77-xxxx issued in Texas between 1/1/1986 and 12/31/1986

Active Address(es):

✔252 HEFNER LN, CUERO, TX 77954-5116, DEWITT COUNTY (Nov 1986 - Jul 2020)

Current phones listed at this address:

361-275-9027 - CDT GONZALES JENNIFER L

361-275-6894

Previous And Non-Verified Address(es):

605 E LOCUST AVE, VICTORIA, TX 77901-3933, VICTORIA COUNTY (2010 - Jul 2020)
207 HEFNER LN, CUERO, TX 77954-5116, DEWITT COUNTY (Nov 2011 - 2019)
500 FISCHER ST, CUERO, TX 77954-4333, DEWITT COUNTY (Jun 1996 - 2019)
605 E LOCUST AVE, CUERO, TX 77954, DEWITT COUNTY (May 2018 - Jun 2018)
254 HEFNER LN, CUERO, TX 77954-5116, DEWITT COUNTY (2011 - 2018)
2550 N ESPLANADE ST, CUERO, TX 77954-4736, DEWITT COUNTY (Aug 2016 - May 2017)
S2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4723, DEWITT COUNTY (Feb 2007 - Sep 2015)
107 NORTHWOOD DR, CUERO, TX 77954-5007, DEWITT COUNTY (Nov 1986 - May 2015)
2306 EMERALD LAKE DR, HARLINGEN, TX 78550-8575, CAMERON COUNTY (Mar 1998 - Jul 2013)

THOMAS ROLAND KRAEGE LexID: 001425211496 DOB: 8/xx/1952

451-80-xxxx issued in Texas between 1/1/1963 and 12/31/1963

Names Associated with Associate:

THOMAS KRAEGE THOMAS LexID: 001425211496 DOB: 8/xx/1952

451-80-xxxx issued in Texas between 1/1/1963 and 12/31/1963

THOMAS KRAEGE RYAN LexID: 001425211496 DOB: 8/xx/1952

451-80-xxxx issued in Texas between 1/1/1963 and 12/31/1963

Previous And Non-Verified Address(es):

229 W 6TH ST 603, YORKTOWN, TX 78164-1933, DEWITT COUNTY (Feb 1999 - Jul 2020)

229 E 6TH ST, YORKTOWN, TX 78164-2106, DEWITT COUNTY (Aug 1994 - Jul 2020)

PO BOX 603, YORKTOWN, TX 78164-0603, DEWITT COUNTY (Dec 1989 - Feb 2019)

532 W 6TH ST, YORKTOWN, TX 78164-5069, DEWITT COUNTY (2015 - 2019)

113 E MAIN ST, YORKTOWN, TX 78164-2030, DEWITT COUNTY (Aug 1996 - 2019)

229 W 6TH ST, YORKTOWN, TX 78164-1933, DEWITT COUNTY (May 1997 - 2016)

229 E 6TH ST 603, YORKTOWN, TX 78164-2106, DEWITT COUNTY (Oct 2002 - Apr 2009)

3428 COVE VIEW BLVD APT 1009, GALVESTON, TX 77554-8051, GALVESTON COUNTY (Aug 1993 - Jul 1996)

7738 NIMROD, SAN ANTONIO, TX 78240-2224, BEXAR COUNTY (Nov 1978 - Mar 1993)

13330 BLANCO RD APT, SAN ANTONIO, TX 78216-2193, BEXAR COUNTY (Dec 1990)

D KENNETH J SIEBERT JR LexID: 002332384612 DOB: 2/xx/1945 DOD: 5/24/2013 Age at Death: 68 (Born 75 years ago) - Verified

128-34-xxxx issued in New York between 1/1/1960 and 12/31/1963

SSN belongs to a person reported as deceased.

Names Associated with Associate:

D KENNETH SIEBERT LexID: 002332384612 DOB: 2/xx/1945 DOD: 5/24/2013 Age at Death: 68 (Born 75 years ago) - Verified

128-34-xxxx issued in New York between 1/1/1960 and 12/31/1963

SSN belongs to a person reported as deceased.

D KEN SIEBERT LexID: 002332384612 DOB: 2/xx/1945 DOD: 5/24/2013 Age at Death: 68 (Born 75 years ago) - Verified

128-34-xxxx issued in New York between 1/1/1960 and 12/31/1963

SSN belongs to a person reported as deceased.

D KENNETH JACKSON SIEBERT LexID: 002332384612 DOB: 2/xx/1945 DOD: 5/24/2013 Age at Death: 68 (Born 75 years ago) - Verified

128-34-xxxx issued in New York between 1/1/1960 and 12/31/1963

SSN belongs to a person reported as deceased.

D K J SIEBERT LexID: 002332384612 DOB: 2/xx/1945 DOD: 5/24/2013 Age at Death: 68 (Born 75 years ago) - Verified

128-34-xxxx issued in New York between 1/1/1960 and 12/31/1963

SSN belongs to a person reported as deceased.

KENNETH J SEIBERT LexID: 002332384612 DOB: 2/xx/1945 DOD: 5/24/2013 Age at Death: 68 (Born 75 years ago) - Verified
128-34-xxxx issued in New York between 1/1/1960 and 12/31/1963
SSN belongs to a person reported as deceased.
KENNETH J J SIEBERT LexID: 002332384612 DOB: 2/xx/1945 DOD: 5/24/2013 Age at Death: 68 (Born 75 years ago) - Verified
128-34-xxxx issued in New York between 1/1/1960 and 12/31/1963
SSN belongs to a person reported as deceased.
KENNETH SIEBERT LexID: 002332384612 DOB: 2/xx/1945 DOD: 5/24/2013 Age at Death: 68 (Born 75 years ago) - Verified
128-34-xxxx issued in New York between 1/1/1960 and 12/31/1963
KENNETH J SIEBERT LexID: 002332384612 DOB: 2/1945 DOD: 5/24/2013 Age at Death: 68 (Born 75 years ago) - Verified
128-34-xxxx issued in New York between 1/1/1960 and 12/31/1963
KENNETH JACKSON SIEBERT LexID: 002332384612 DOB: 2/xx/1945 DOD: 5/24/2013 Age at Death: 68 (Born 75 years ago) - Verified
187-12-xxxx issued in Pennsylvania between 1/1/1936 and 12/31/1951
SSN belongs to a person reported as deceased.

Previous And Non-Verified Address(es):

PO BOX 7237, CHESTNUT MOUNTAIN, GA 30502-0237, HALL COUNTY (Jan 2003 - Jul 2020)
1971 BURGUNDY DR, BRASELTON, GA 30517-2413, BARROW COUNTY (Jan 2012 - Mar 2013)
36 DUNAIRE CT SW, MABLETON, GA 30126-1495, COBB COUNTY (Aug 1997 - Mar 2012)
196 ALPS RD STE 2316, ATHENS, GA 30606-4085, CLARKE COUNTY (Feb 2000 - Aug 2011)
5950 STATE BRIDGE RD STE H, DULUTH, GA 30097-6438, FULTON COUNTY (Jan 2001 - Feb 2007)
4514 CHAMBLEE DUNWOODY RD APT 158, ATLANTA, GA 30338-6272, DEKALB COUNTY (Sep 1996 - 2005)
3245 PEACHTREE PKWY STE 314, SUWANEE, GA 30024-6054, FORSYTH COUNTY (Aug 2004)

HEMANGINI JAYENDRAKUMAR THAKAR LexID: 002505141553 DOB: 2/xx/1977
410-63-xxxx issued in Tennessee between 1/1/1989 and 12/31/1990

Names Associated with Associate:

H THAKAR LexID: 002505141553 DOB: 2/xx/1977
410-63-xxxx issued in Tennessee between 1/1/1989 and 12/31/1990
HEMA THAKAR LexID: 002505141553 DOB: 2/xx/1977
410-63-xxxx issued in Tennessee between 1/1/1989 and 12/31/1990
HEMANGINI J THAKAAR LexID: 002505141553 DOB: 2/xx/1977
410-63-xxxx issued in Tennessee between 1/1/1989 and 12/31/1990
HEMANGINI J DUGI LexID: 002505141553 DOB: 2/xx/1977
410-63-xxxx issued in Tennessee between 1/1/1989 and 12/31/1990
HEMANGINI J THAKKAR LexID: 002505141553 DOB: 2/xx/1977
410-63-xxxx issued in Tennessee between 1/1/1989 and 12/31/1990

Previous And Non-Verified Address(es):

2584 NW OVERTON ST, PORTLAND, OR 97210-2441, MULTNOMAH COUNTY

(2011 - Jul 2020)
2222 NW LOVEJOY ST STE 304, PORTLAND, OR 97210-5100, MULTNOMAH COUNTY (May 2017 - Jul 2020)
2222 NW LO, PORTLAND, OR 97210, MULTNOMAH COUNTY (Jul 2019)
1130 NW 22ND AVE STE 420, PORTLAND, OR 97210-2995, MULTNOMAH COUNTY (Nov 2015 - Oct 2018)
2800 N VANCOUVER AVE APT, PORTLAND, OR 97227-1630, MULTNOMAH COUNTY (Dec 2015 - May 2017)
3303 SW BOND AVE APT CH5P, PORTLAND, OR 97239-4501, MULTNOMAH COUNTY (Oct 2011 - Oct 2016)
3181 SW SAM JACKSON PARK RD APT, PORTLAND, OR 97239-3011, MULTNOMAH COUNTY (Feb 2010 - Nov 2015)
2544 NW OVERTON ST, PORTLAND, OR 97210-2441, MULTNOMAH COUNTY (Sep 2009 - Sep 2015)
2005 CAPERS AVE APT 14, NASHVILLE, TN 37212-3118, DAVIDSON COUNTY (Nov 2000 - Mar 2015)
3943 CORTEZ DR, DALLAS, TX 75220-5014, DALLAS COUNTY (Jun 2003 - 2013)

VINCENT MORRIS THOMPSON LexID: 002521917491 DOB: 5/xx/1958
456-13-xxxx issued in Texas between 1/1/1971 and 12/31/1972

Names Associated with Associate:

M THOMPSON VINCENT LexID: 002521917491 DOB: 5/xx/1958
456-13-xxxx issued in Texas between 1/1/1971 and 12/31/1972
VINCENT TOMPSON LexID: 002521917491 DOB: 5/xx/1958
456-13-xxxx issued in Texas between 1/1/1971 and 12/31/1972
VINCE M THOMPSON LexID: 002521917491 DOB: 5/xx/1958
456-13-xxxx issued in Texas between 1/1/1971 and 12/31/1972
VINCENT MTHOMPSON LexID: 002521917491 DOB: 5/xx/1958
456-13-xxxx issued in Texas between 1/1/1971 and 12/31/1972
VINCENT THOMSPSON LexID: 002521917491 DOB: 5/xx/1958
456-13-xxxx issued in Texas between 1/1/1971 and 12/31/1972

Previous And Non-Verified Address(es):

731 STATE HIGHWAY 97 E, FLORESVILLE, TX 78114-3215, WILSON COUNTY (Apr 1999 - Jul 2020)
4 QUEENS CRK, BATAVIA, OH 45103-2362, CLERMONT COUNTY (Jul 2018 - May 2020)
731 STATE 97 E, FLORESVILLE, TX 78114, WILSON COUNTY (Jul 2001 - Oct 2019)
12195 OXBOW DR, EDEN PRAIRIE, MN 55347-4261, HENNEPIN COUNTY (Sep 2001 - Aug 2015)
7901 66TH AVE N, MINNEAPOLIS, MN 55428-2114, HENNEPIN COUNTY (Sep 2001 - Dec 2014)
731 SH 97, FLORESVILLE, TX 78114, WILSON COUNTY (May 2009 - Oct 2014)
731 STATE HIGHWAY 97, GALVESTON, TX 77551, GALVESTON COUNTY (Oct 2012 - Feb 2013)
1437 WILTSHIRE AVE, SAN ANTONIO, TX 78209-6050, BEXAR COUNTY (Apr 1986 - May 2012)

731 STATE HIGH WAY 9 E, FLORESVILLE, TX 78114, WILSON COUNTY (May 2008)
617 STATE HIGHWAY 97 E, FLORESVILLE, TX 78114-3214, WILSON COUNTY (Dec 2002 - May 2006)

SHERYL A MILLS LexID: 153277570481 DOB: 1/xx/1981
508-53-xxxx issued in Nebraska between 6/3/2008 and 10/1/2009

Names Associated with Associate:

SHERYL M A MILLS LexID: 153277570481 DOB: 1981
508-53-xxxx issued in Nebraska between 6/3/2008 and 10/1/2009
SHERYL MAY ALICIA MILLS LexID: 153277570481 DOB: 7/xx/1981
508-53-xxxx issued in Nebraska between 6/3/2008 and 10/1/2009
SHERLY MAY A MILLS LexID: 153277570481 DOB: 1981
508-53-xxxx issued in Nebraska between 6/3/2008 and 10/1/2009
SHERYL MAY ALICIA MILLS LexID: 153277570481 DOB: 7/xx/1981
508-53-xxxx issued in Nebraska between 6/3/2008 and 10/1/2009
SHERLY A MILLS LexID: 153277570481
508-53-xxxx issued in Nebraska between 6/3/2008 and 10/1/2009
SHERYL MAYALICIA MILLS LexID: 153277570481
SHERYL S MILLS LexID: 153277570481
SHERYL MAY SNODGRASS LexID: 153277570481

Previous And Non-Verified Address(es):

105 RIDGE VW, VICTORIA, TX 77904-3391, VICTORIA COUNTY (Jul 2014 - Jul 2020)
380 WINDING RIVER CIR APT 302, MEMPHIS, TN 38120-2909, SHELBY COUNTY (Aug 2011 - Jul 2020)
2500 N ESPLANADE ST STE 102, CUERO, TX 77954-4727, DEWITT COUNTY (Apr 2017 - Jun 2020)
2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY (Jun 2016 - Jun 2020)
1109 E BROADWAY ST, CUERO, TX 77954-2108, DEWITT COUNTY (Nov 2017 - Jun 2020)
3109 WALNUT GROVE RD, MEMPHIS, TN 38111-3509, SHELBY COUNTY (Dec 2011 - Apr 2020)
6631 RUE BEAUMONDE DR, MEMPHIS, TN 38120-3300, SHELBY COUNTY (2014 - Oct 2017)
365 WINDING RIVER CIR APT 205, MEMPHIS, TN 38120-2193, SHELBY COUNTY (Jun 2013 - Oct 2016)
1901 THURSTON AVE APT 4, BELLEVUE, NE 68005-4843, SARPY COUNTY (Jun 2010 - Aug 2013)
601 N 30TH ST STE 1609, OMAHA, NE 68131-2128, DOUGLAS COUNTY (Oct 2008 - Jul 2011)

Possible Relative Summary: *(Click on name to link to more details within this report - No Charge)*

> BLI RAE MARSTON , Age 46
>> R MARSTON - (AKA), Age 46
>> BLI M DUGI - (AKA), Age 46

>> MARSTON BLI DUGI - (AKA), Age 46
>> M DUGI - (AKA), Age 46
>> BLI MORTON - (AKA), Age 46
>> RAE MARSTON - (AKA), Age 46
>> BLI MARSTON DUGI - (AKA), Age 46
>> BLI MARSTON DUGI - (AKA), Age 46
>> BLI RAE MARSTON - (AKA), Age 46
>> RAE MARSTON - (AKA), Age 46
>> MORTON BLI - (AKA), Age 46
>> RAY MARSTON - (AKA), Age 46
>> B DUGI - (AKA), Age 46
>> BLI MARSTUA - (AKA), Age 46
>> BLY DUGI - (AKA), Age 46
>> R MARSTON - (AKA), Age 46
>> RAY DUGI BLI - (AKA), Age 46
>> RAY DUGI - (AKA), Age 46

> ELIZABETH HENSLEY DAVIDSON , Age 64
>> ELIZABETH H DUGI - (AKA), Age 64
>> ELIZABETH DUGI - (AKA), Age 64
>> M ELIZABETH DUGI - (AKA), Age 64
>> E DAVIDSON - (AKA), Age 64
>> ELIZABET H DUGI - (AKA), Age 64
>> ELIZABETHH DAVIDSON - (AKA), Age 64
>> ELIABETH DAVIDSON - (AKA), Age 64
>> ELIZABETH DUGI - (AKA), Age 63
>> ELIZABETH H DUGI - (AKA), Age 63
>> MARTHA DUGI - (AKA), Age 64

> DANIEL DAVID DUGI 3 , Age 43
>> DANIEL D DUGIII - (AKA), Age 43
>> DAN DUGI 3 - (AKA), Age 43
>> DAN DUGI 3 - (AKA), Age 42
>> DAN D DUGI - (AKA), Age 43
>> DANIEL CALLAGHAN 3 - (AKA), Age 33

> MIRANDA E DUGI , Age 37
>> MIRANDA DUGI LEBLANC - (AKA), Age 37
>> MIRANDA ELIZABETH DUGI - (AKA), Age 37
>> LEBLANC MIRANDA DUGI - (AKA), Age 37
>> E DUGI MIRANDA - (AKA), Age 37
>> M DUGI MIRANDA - (AKA), Age 37
>> MIRANDA ELIZABETH LEBLANC - (AKA), Age 37
>> MIRANDA M DUGI - (AKA), Age 37
>> ELIZABETH DUGI - (AKA), Age 37
>> M DUGI - (AKA), Age 37
>> MIRANDA ELIZABETH DUGI - (AKA), Age 37
>> MIRANDA ELIZABETH LEBLANC - (AKA), Age 37

> DANIEL DAVE DUGI , Age 94
>> DANIEL DAVE DUGIE - (AKA), Age 94

> MARGARET A DUGI , Age 93
>> MARGARET RICHTER DUGI - (AKA), Age 93

>> M DUGI BROCK - (AKA), Age 93
>> MARGARET RICHTER - (AKA), Age 93
> KEVIN GERARD DUGI , Age 60
>> KEVIN DUGY - (AKA), Age 60
>> KEVIN OUGI - (AKA), Age 60
> MICHAEL DUANE DUGI , Age 63
>> MICHAEL DUGY - (AKA), Age 63
>> MICHAEL DUGI - (AKA), Age 63
>> MIKE DUGI - (AKA), Age 63
>> MICHAEL A DUGI - (AKA), Age 63
>> MICHAEL DOGIE - (AKA), Age 63
>> MICHAEL DUGI - (AKA), Age 63
>> MICHAEL DUGI - (AKA), Age 63
>> MICHAEL DUGI - (AKA), Age 62
> JARETH ANTHONY DUGI , Age 52
>> DUGI JARETH - (AKA), Age 52
>> JARRETH DUGI - (AKA), Age 52
> LAURIE FELUX DUGI , Age 51
>> LAURIE L DUGI - (AKA), Age 51
> APRIL VICTORIA GORZELL , Age 30
>> APRIL VICTORIA DUGI - (AKA), Age 30
>> APRIL DUGI - (AKA), Age 30
>> APRIL DUGI - (AKA), Age 30
>> APRIL GORVELL - (AKA), Age 30
>> JARETH DUGI - (AKA), Age 30
> SONYA K BAKER , Age 58
>> SONYA KAY DUGI - (AKA), Age 58
>> SONYA KAY BAKER - (AKA), Age 58
>> SONYA K BAKER - (AKA), Age 58
> MATTHEW GERARD DUGI , Age 32
>> MATT G DUGI - (AKA), Age 32
>> MATTHEW GERARD - (AKA), Age 32
> JESSE NATHANIEL DUGI , Age 27
> FRANCINE MARIE DUGI , Age 52
>> FRANCINE CAMBER DUGI - (AKA), Age 52
>> FRANCINE M CAMBER - (AKA), Age 52
>> DUGI CAMBER - (AKA), Age 52
>> F DUGI - (AKA), Age 52
> BENJAMIN JAMES DUGI , Age 86
>> BEN J DUGI - (AKA), Age 86
> DARRIN ANTHONY DUGI , Age 54
>> D DUGI - (AKA), Age 54
>> DARRMN DUGI - (AKA), Age 54
>> DARRN DUGI - (AKA), Age 54
> BRIANNA MARIE DUGI , Age 22
>> BRIANNA MARUE DUGI - (AKA), Age 22
> BROCK MICHAEL DUGI , Age 22
>> M DUGI BROCK - (AKA), Age 22
>> MICHAEL - (AKA), Age 22

>> MICHAEL DUGI BROCK - (AKA), Age 22
> DANIEL DUGI 2 , Age 43

Possible Relatives:

** Relative Results Limited to 20 - Use Maximum Relatives to Return Option to adjust limit **

BLI RAE MARSTON LexID: 001611000928 DOB: 1/xx/1974
465-77-xxxx issued in Texas between 1/1/1986 and 12/31/1987
Names Associated with Relative:
R MARSTON LexID: 001611000928 DOB: 1/xx/1974
465-77-xxxx issued in Texas between 1/1/1986 and 12/31/1987
BLI M DUGI LexID: 001611000928 DOB: 1/xx/1974
465-77-xxxx issued in Texas between 1/1/1986 and 12/31/1987
MARSTON BLI DUGI LexID: 001611000928 DOB: 1/xx/1974
465-77-xxxx issued in Texas between 1/1/1986 and 12/31/1987
M DUGI LexID: 001611000928 DOB: 1/xx/1974
465-77-xxxx issued in Texas between 1/1/1986 and 12/31/1987
BLI MORTON LexID: 001611000928 DOB: 1/xx/1974
465-77-xxxx issued in Texas between 1/1/1986 and 12/31/1987
RAE MARSTON LexID: 001611000928 DOB: 1/xx/1974
465-77-xxxx issued in Texas between 1/1/1986 and 12/31/1987
BLI MARSTON DUGI LexID: 001611000928 DOB: 1/xx/1974
465-77-xxxx issued in Texas between 1/1/1986 and 12/31/1987
BLI MARSTON DUGI LexID: 001611000928 DOB: 1/xx/1974
465-77-xxxx issued in Texas between 1/1/1986 and 12/31/1987
BLI RAE MARSTON LexID: 001611000928 DOB: 1/xx/1974
465-77-xxxx issued in Texas between 1/1/1986 and 12/31/1987
RAE MARSTON LexID: 001611000928 DOB: 1/xx/1974
465-77-xxxx issued in Texas between 1/1/1986 and 12/31/1987
MORTON BLI LexID: 001611000928 DOB: 1/xx/1974
465-77-xxxx issued in Texas between 1/1/1986 and 12/31/1987
RAY MARSTON LexID: 001611000928 DOB: 1/xx/1974
465-77-xxxx issued in Texas between 1/1/1986 and 12/31/1987
B DUGI LexID: 001611000928 DOB: 1/xx/1974
465-77-xxxx issued in Texas between 1/1/1986 and 12/31/1987
BLI MARSTUA LexID: 001611000928 DOB: 1/xx/1974
465-77-xxxx issued in Texas between 1/1/1986 and 12/31/1987
BLY DUGI LexID: 001611000928 DOB: 1/xx/1974
465-77-xxxx issued in Texas between 1/1/1986 and 12/31/1987
R MARSTON LexID: 001611000928 DOB: 1/xx/1974
465-77-xxxx issued in Texas between 1/1/1986 and 12/31/1987
RAY DUGI BLI LexID: 001611000928 DOB: 1/xx/1974
465-77-xxxx issued in Texas between 1/1/1986 and 12/31/1987
RAY DUGI LexID: 001611000928 DOB: 1/xx/1974
465-77-xxxx issued in Texas between 1/1/1986 and 12/31/1987
Previous And Non-Verified Address(es):
146 POST OAK WAY APT 77954, CUERO, TX 77954-2228, DEWITT COUNTY (Nov 2000 - Jul 2020)

502 E LIVE OAK ST, CUERO, TX 77954-2965, DEWITT COUNTY (Jan 2014 - 2018)

Current Residents at Address:

CONNIE CHRISTINE CATRON
KEITH WAYNE CATRON
PATRICK J KOLIBA JR

1008 ELLINGSON LN, CUERO, TX 77954, DEWITT COUNTY (Sep 2016 - Mar 2017)

412 PINNACLE HEIGHTS LN, CUERO, TX 77954, DEWITT COUNTY (Oct 2016)

2 RICHMOND RD 699, CUERO, TX 77954-3226, DEWITT COUNTY (Jul 2016 - Aug 2016)

422 ROSINA VIS, CUERO, TX 77954, DEWITT COUNTY (Sep 2015 - Jun 2016)

304 N GONZALES ST, CUERO, TX 77954-2949, DEWITT COUNTY (Jul 2000 - Jul 2004)

Current Residents at Address:

ALLEN LUTHER DAVIS
KIMBERLY ANN KIRBO
ARIEL ELIZABETH GOMEZ
ARIEL GOMEZ

PO BOX 146, CUERO, TX 77954-0146, DEWITT COUNTY (Oct 2002)

229 E 6TH ST, YORKTOWN, TX 78164-2106, DEWITT COUNTY (Apr 1995 - Oct 2002)

2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY (Jun 2000 - Sep 2002)

Current Residents at Address:

DEBORAH CHRISTINA AGUILAR
DANIEL DAVID DUGI

ELIZABETH HENSLEY DAVIDSON LexID: 000700126117 DOB: 2/xx/1956

460-80-xxxx issued in Texas between 1/1/1963 and 12/31/1964

Names Associated with Relative:

ELIZABETH H DUGI LexID: 000700126117 DOB: 2/xx/1956
460-80-xxxx issued in Texas between 1/1/1963 and 12/31/1964

ELIZABETH DUGI LexID: 000700126117 DOB: 2/xx/1956
460-80-xxxx issued in Texas between 1/1/1963 and 12/31/1964

M ELIZABETH DUGI LexID: 000700126117 DOB: 2/xx/1956
460-80-xxxx issued in Texas between 1/1/1963 and 12/31/1964

E DAVIDSON LexID: 000700126117 DOB: 2/xx/1956
460-80-xxxx issued in Texas between 1/1/1963 and 12/31/1964

ELIZABET H DUGI LexID: 000700126117 DOB: 2/xx/1956
460-80-xxxx issued in Texas between 1/1/1963 and 12/31/1964

ELIZABETHH DAVIDSON LexID: 000700126117 DOB: 2/xx/1956
460-80-xxxx issued in Texas between 1/1/1963 and 12/31/1964

ELIABETH DAVIDSON LexID: 000700126117 DOB: 2/xx/1956
460-80-xxxx issued in Texas between 1/1/1963 and 12/31/1964

ELIZABETH DUGI LexID: 000700126117 DOB: 1957
460-80-xxxx issued in Texas between 1/1/1963 and 12/31/1964

ELIZABETH H DUGI LexID: 000700126117 DOB: 1957

460-80-xxxx issued in Texas between 1/1/1963 and 12/31/1964
MARTHA DUGI LexID: 000700126117 DOB: 2/xx/1956
460-80-xxxx issued in Texas between 1/1/1963 and 12/31/1964
Previous And Non-Verified Address(es):
920 NW NAITO PKWY APT J4, PORTLAND, OR 97209-3742, MULTNOMAH COUNTY (2013 - Jul 2020)
J4 920 NW NAITO PKWY, PORTLAND, OR 97209, MULTNOMAH COUNTY (Jul 2018)
18739 TALL OAK DR, DALLAS, TX 75287-4049, COLLIN COUNTY (Jan 1997 - Feb 2016)
Current Residents at Address:
KAIRI TYRONE REID
SHRADHA CHAULAGAIN
972-248-0033

6901 MEDICAL PKWY, WACO, TX 76712-7910, MCLENNAN COUNTY (Dec 2013 - Apr 2015)
Current phones listed at this address:
254-751-4000 - CDT PROVIDENCE HEALTHCARE NETWORK

254-751-4180 - CDT PROVIDENCE HEALTHCARE NETWORK

254-751-4242 - CDT PROVIDENCE HEALTHCARE NETWORK

2584 NW OVERTON ST, PORTLAND, OR 97210-2441, MULTNOMAH COUNTY (Sep 2013 - Oct 2014)
Current Residents at Address:
DANIEL DAVID DUGI 3
JUDITH WALLACE MCMILLAN
HEMANGINI JAYENDRAKUMAR THAKAR
JAY H THAKAR
JAY H THAKAR
2583 NW OVERTON ST, PORTLAND, OR 97210-2440, MULTNOMAH COUNTY (2013 - Aug 2014)
923 WOODED ACRES DR APT D, WACO, TX 76710-4512, MCLENNAN COUNTY (Jan 2013)
Current Residents at Address:
MARIA DUARTE
18739 TALL DR, DALLAS, TX 75287, COLLIN COUNTY (Nov 2011 - May 2012)
31 MYRTLE AVE APT, CAMBRIDGE, MA 02138-3218, MIDDLESEX COUNTY (Feb 2012)
Current Residents at Address:
SAMIR T EID
MATTHEW W LEUNG
IAN GLENN CHAMBERLAND

DANIEL DAVID DUGI 3 LexID: 000700176516 DOB: 2/xx/1977

467-75-xxxx issued in Texas between 1/1/1986 and 12/31/1986

Names Associated with Relative:

DANIEL D DUGIII LexID: 000700176516 DOB: 2/xx/1977
467-75-xxxx issued in Texas between 1/1/1986 and 12/31/1986

DAN DUGI 3 LexID: 000700176516 DOB: 2/xx/1977
467-75-xxxx issued in Texas between 1/1/1986 and 12/31/1986

DAN DUGI 3 LexID: 000700176516 DOB: 1978
467-75-xxxx issued in Texas between 1/1/1986 and 12/31/1986

DAN D DUGI LexID: 000700176516 DOB: 2/xx/1977
467-75-xxxx issued in Texas between 1/1/1986 and 12/31/1986

DANIEL CALLAGHAN 3 LexID: 000700176516 DOB: 1987
467-75-xxxx issued in Texas between 1/1/1986 and 12/31/1986

Previous And Non-Verified Address(es):

2584 NW OVERTON ST, PORTLAND, OR 97210-2441, MULTNOMAH COUNTY (2011 - Jul 2020)

Current Residents at Address:

DANIEL DAVID DUGI 3
JUDITH WALLACE MCMILLAN
HEMANGINI JAYENDRAKUMAR THAKAR
JAY H THAKAR
JAY H THAKAR

1015 NW 22ND AVE, PORTLAND, OR 97210-3025, MULTNOMAH COUNTY (Jul 2019 - Jul 2020)

Current phones listed at this address:

503-413-7227 - PDT DIABETES INSTITUTE

503-413-7127 - PDT DIAGNOSTIC IMAGING NW PC

800-227-5726 GOOD SAMARITAN HOSPITAL & MEDICAL CENTER

3303 SW BOND AVE APT CH-10-U, PORTLAND, OR 97239-4501, MULTNOMAH COUNTY (Oct 2009 - Jul 2020)

3303 SW BOND AVE APT CH16D, PORTLAND, OR 97239-4501, MULTNOMAH COUNTY (Jul 2017 - Aug 2017)

3943 CORTEZ DR, DALLAS, TX 75220-5014, DALLAS COUNTY (Jun 2003 - Aug 2014)

Current Residents at Address:

LINDSEY CATELIN EMERSON
JAMES FRANCIS BAKER
214-357-3453

2544 NW OVERTON ST, PORTLAND, OR 97210-2441, MULTNOMAH COUNTY (Sep 2009 - May 2012)

Current Residents at Address:

DANE MATT TOMSETH
OLIVIA MICHELLE BREWER

5323 HARRY HINES BLVD APT, DALLAS, TX 75390-7208, DALLAS COUNTY

(Aug 2008 - Sep 2009)

2750 HOLLY HALL ST APT 1120, HOUSTON, TX 77054-4165, HARRIS COUNTY (Jun 1999 - Mar 2009)

713-440-8495

7510 BROMPTON ST APT 667, HOUSTON, TX 77025-2233, HARRIS COUNTY (Feb 1996 - Mar 2009)

713-440-8495

327 MACON CRK, VICTORIA, TX 77901-3645, VICTORIA COUNTY (May 2003)

Current Residents at Address:

JUDITH N WILLIAMS
TIMOTHY DALE WILLIAMS
MEREDITH JOANN WILLIAMS
361-572-9237 - CDT WILLIAMS JUDITH N

MIRANDA E DUGI LexID: 004210236552 DOB: 11/xx/1982

467-75-xxxx issued in Texas between 1/1/1986 and 12/31/1986

Names Associated with Relative:

MIRANDA DUGI LEBLANC LexID: 004210236552 DOB: 11/xx/1982
467-75-xxxx issued in Texas between 1/1/1986 and 12/31/1986

MIRANDA ELIZABETH DUGI LexID: 004210236552 DOB: 11/xx/1982
467-75-xxxx issued in Texas between 1/1/1986 and 12/31/1986

LEBLANC MIRANDA DUGI LexID: 004210236552 DOB: 11/xx/1982
467-75-xxxx issued in Texas between 1/1/1986 and 12/31/1986

E DUGI MIRANDA LexID: 004210236552 DOB: 11/xx/1982
467-75-xxxx issued in Texas between 1/1/1986 and 12/31/1986

M DUGI MIRANDA LexID: 004210236552 DOB: 11/xx/1982
467-75-xxxx issued in Texas between 1/1/1986 and 12/31/1986

MIRANDA ELIZABETH LEBLANC LexID: 004210236552 DOB: 11/xx/1982
467-75-xxxx issued in Texas between 1/1/1986 and 12/31/1986

MIRANDA M DUGI LexID: 004210236552 DOB: 11/xx/1982
467-75-xxxx issued in Texas between 1/1/1986 and 12/31/1986

ELIZABETH DUGI LexID: 004210236552 DOB: 11/xx/1982
467-75-xxxx issued in Texas between 1/1/1986 and 12/31/1986

M DUGI LexID: 004210236552 DOB: 11/xx/1982
467-75-xxxx issued in Texas between 1/1/1986 and 12/31/1986

MIRANDA ELIZABETH DUGI LexID: 004210236552 DOB: 11/xx/1982
462-38-xxxx issued in Texas between 1/1/1936 and 12/31/1951
SSN belongs to a person reported as deceased.

MIRANDA ELIZABETH LEBLANC LexID: 004210236552 DOB: 11/xx/1982
462-38-xxxx issued in Texas between 1/1/1936 and 12/31/1951
SSN belongs to a person reported as deceased.

Previous And Non-Verified Address(es):

4910 ARDEN AVE, MINNEAPOLIS, MN 55424-1119, HENNEPIN COUNTY (Mar 2020 - Jul 2020)

Current Residents at Address:

STEPHANIE ANN ALLISON
DAVID JOHN LILAK
MERCEDES MACKALL
MIRANDA E DUGI
JUSTIN WILLIAM LEBLANC
ZOE JACQUELINE LILAK
KIERAN MICHAEL ALLISON

3908 KIPLING AVE, MINNEAPOLIS, MN 55416-5066, HENNEPIN COUNTY (Jan 2014 - Jul 2020)

Current Residents at Address:

MARY E SINCLAIR
MIRANDA E DUGI
KAGE ESPEN TILLER
BRIDGET KELLY MADDEN

5044 OLIVER AVE S, MINNEAPOLIS, MN 55419-1031, HENNEPIN COUNTY (Jun 2018 - Jun 2020)

Current Residents at Address:

MIRANDA E DUGI
JUSTIN WILLIAM LEBLANC
LOGAN PETER RATHJEN
KELLY NICOLE DANNER
REED DEARDORFF

1558 COHASSETT AVE, LAKEWOOD, OH 44107-4947, CUYAHOGA COUNTY (Aug 2013 - Jun 2020)

Current Residents at Address:

TRACY ANNE REINHARD
JEFFREY CHARLES REINHARD
MIRANDA E DUGI
RACHEL ANN KOPEC

1500 MASSACHUSETTS AVE NW APT 73, WASHINGTON, DC 20005-1813, D.C COUNTY (Jun 2012 - Jan 2019)

3908 ST LOUIS PARK, ST LOUIS PARK, MN 55416, HENNEPIN COUNTY (Jul 2016)

146 POST OAK WAY, CUERO, TX 77954-2228, DEWITT COUNTY (Jun 2001 - May 2016)

Current Residents at Address:

DANIEL DAVID DUGI
BLI RAE MARSTON
512-275-5183

1500 MASSACHUSETTS AVE NW APT 735, WASHINGTON, DC 20005-1833, D.C COUNTY (Sep 2008 - Jan 2014)

4117 W ST NW APT 101, WASHINGTON, DC 20007-4066, D.C COUNTY (Jan 2008 - Jan 2013)

Current Residents at Address:

ALEXANDER DONIVAN MEARS
202-510-7584

38 IVALOO ST, SOMERVILLE, MA 02143-3632, MIDDLESEX COUNTY (Apr 2011 - Nov 2012)

Current Residents at Address:

ELISSA CLAIRE RITCHEY
LEV POLEVOY

D DANIEL DAVE DUGI LexID: 000700169716 DOB: 7/xx/1926 DOD: 4/6/2004 (WILSON, TX) Age at Death: 77 (Born 94 years ago) - Verified

453-44-xxxx issued in Texas between 1/1/1936 and 12/31/1951

SSN belongs to a person reported as deceased.

Names Associated with Relative:

D DANIEL DAVE DUGIE LexID: 000700169716 DOB: 7/xx/1926 DOD: 4/6/2004 (WILSON, TX) Age at Death: 77 (Born 94 years ago) - Verified

453-44-xxxx issued in Texas between 1/1/1936 and 12/31/1951

SSN belongs to a person reported as deceased.

Previous And Non-Verified Address(es):

S 1980 COUNTY ROAD 233 # 233 233, FLORESVILLE, TX 78114-3381, WILSON COUNTY (Jul 1993 - Jul 2020)

830-393-2125

S PO BOX 53, POTH, TX 78147-0053, WILSON COUNTY (Aug 2011 - Nov 2011)

1980, FLORESVILLE, TX 78114, WILSON COUNTY (Apr 2011 - Aug 2011)

1980 C R 233, FLORESVILLE, TX 78114, WILSON COUNTY (May 1999 - Sep 2004)

RR 5 BOX 1, FLORESVILLE, TX 78114-9805, WILSON COUNTY (May 1965 - Oct 2002)

RR 5 BOX 220B, FLORESVILLE, TX 78114-9447, WILSON COUNTY (Dec 1989 - Jun 2002)

RR 213 BOX, FLORESVILLE, TX 78114, WILSON COUNTY (Apr 1999)

S RR 4 BOX 220B, FLORESVILLE, TX 78114-9804, WILSON COUNTY (Dec 1989 - Jul 1992)

D MARGARET A DUGI LexID: 000699692523 DOB: 7/xx/1927 DOD: 1/27/2015 (WILSON, TX) Age at Death: 87 (Born 93 years ago) - Verified

462-40-xxxx issued in Texas between 1/1/1936 and 12/31/1951

SSN belongs to a person reported as deceased.

Names Associated with Relative:

D MARGARET RICHTER DUGI LexID: 000699692523 DOB: 7/xx/1927 DOD: 1/27/2015 (WILSON, TX) Age at Death: 87 (Born 93 years ago) - Verified

462-40-xxxx issued in Texas between 1/1/1936 and 12/31/1951

SSN belongs to a person reported as deceased.

D M DUGI BROCK LexID: 000699692523 DOB: 7/xx/1927 DOD: 1/27/2015 (WILSON, TX) Age at Death: 87 (Born 93 years ago) - Verified

462-40-xxxx issued in Texas between 1/1/1936 and 12/31/1951
SSN belongs to a person reported as deceased.
MARGARET RICHTER LexID: 000699692523 DOB: 7/xx/1927 DOD: 1/27/2015 (WILSON, TX) Age at Death: 87 (Born 93 years ago) - Verified
462-40-xxxx issued in Texas between 1/1/1936 and 12/31/1951
SSN belongs to a person reported as deceased.
Previous And Non-Verified Address(es):
PO BOX 53, POTH, TX 78147-0053, WILSON COUNTY (Jun 2011 - Jul 2020)
PO BOX 979, CUERO, TX 77954-0979, DEWITT COUNTY (Jan 2014 - Jul 2020)
Current Residents at Address:
MARGARET A DUGI
RAMSEY LEE LONGBOTHAM
ERIC RAMSEY LONGBOTHAM
THOMAS NATHANIEL LONGBOTHAM
1980 COUNTY ROAD 233 # 233 233, FLORESVILLE, TX 78114-3381, WILSON COUNTY (Mar 1999 - 2015)
830-393-2125

4706 DEL MAR TRL, SAN ANTONIO, TX 78251-3508, BEXAR COUNTY (2013 - Jul 2014)
Current Residents at Address:
JARETH ANTHONY DUGI
LAURIE FELUX DUGI
1104 TERRELL ST, CUERO, TX 77954-3458, DEWITT COUNTY (Oct 2010 - Jan 2014)
Current Residents at Address:
PAMELA J LONGBOTHAM
RAMSEY LEE LONGBOTHAM
THOMAS NATHANIEL LONGBOTHAM
361-275-5763 - CDT LONGBOTHAM RAMSEY L

1980 C R 233, FLORESVILLE, TX 78114, WILSON COUNTY (Jan 1999 - Sep 2004)
RR 5 BOX 220B, FLORESVILLE, TX 78114-9805, WILSON COUNTY (Dec 1989 - Jun 2002)
1356 COUNTY ROAD 233, FLORESVILLE, TX 78114-3378, WILSON COUNTY (Dec 2001 - Jan 2002)
Current Residents at Address:
IRENE GORZELL
JOE J GORZELL JR

KEVIN GERARD DUGI LexID: 000700796121 DOB: 9/xx/1960
466-31-xxxx issued in Texas between 1/1/1975 and 12/31/1975

Names Associated with Relative:

KEVIN DUGY LexID: 000700796121 DOB: 9/xx/1960
466-31-xxxx issued in Texas between 1/1/1975 and 12/31/1975

KEVIN OUGI LexID: 000700796121 DOB: 9/xx/1960
466-31-xxxx issued in Texas between 1/1/1975 and 12/31/1975

Previous And Non-Verified Address(es):
1980 COUNTY ROAD 233, FLORESVILLE, TX 78114-3381, WILSON COUNTY (Aug 2000 - Jul 2020)
Current Residents at Address:
DANIEL DAVE DUGI
923 10TH ST STE 1, FLORESVILLE, TX 78114-1868, WILSON COUNTY (Apr 2018 - Jul 2020)
PO BOX 979, CUERO, TX 77954-0979, DEWITT COUNTY (Jan 2014 - May 2015)
Current Residents at Address:
MARGARET A DUGI
RAMSEY LEE LONGBOTHAM
ERIC RAMSEY LONGBOTHAM
THOMAS NATHANIEL LONGBOTHAM
1104 TERRELL ST, CUERO, TX 77954-3458, DEWITT COUNTY (Nov 2010 - Jan 2014)
Current Residents at Address:
PAMELA J LONGBOTHAM
RAMSEY LEE LONGBOTHAM
THOMAS NATHANIEL LONGBOTHAM
361-275-5763 - CDT LONGBOTHAM RAMSEY L

PO BOX 697, POTH, TX 78147-0697, WILSON COUNTY (Nov 1990 - Apr 2009)
Current Residents at Address:
MICHELLE LEE BRACEY
DILLON JOHN ZAIONTZ
LEXI RACHELE ZAIONTZ
1980 COUNTY RD, FLORESVILLE, TX 78114, WILSON COUNTY (Jul 2004 - Feb 2007)
1980, FLORESVILLE, TX 78114, WILSON COUNTY (Dec 2006)
1980 233 CIR, FLORESVILLE, TX 78114, WILSON COUNTY (Dec 1999 - Jul 2004)
1980 233 COUNTY RD, FLORESVILLE, TX 78114, WILSON COUNTY (May 2003)
180 C R 233, FLORESVILLE, TX 78114, WILSON COUNTY (Apr 2003)

MICHAEL DUANE DUGI LexID: 000700588524 DOB: 5/xx/1957
452-15-xxxx issued in Texas between 1/1/1972 and 12/31/1973
Names Associated with Relative:
MICHAEL DUGY LexID: 000700588524 DOB: 5/xx/1957
452-15-xxxx issued in Texas between 1/1/1972 and 12/31/1973

MICHAEL DUGI LexID: 000700588524 DOB: 5/xx/1957
452-15-xxxx issued in Texas between 1/1/1972 and 12/31/1973
MIKE DUGI LexID: 000700588524 DOB: 5/xx/1957
452-15-xxxx issued in Texas between 1/1/1972 and 12/31/1973
MICHAEL A DUGI LexID: 000700588524 DOB: 5/xx/1957
452-15-xxxx issued in Texas between 1/1/1972 and 12/31/1973
MICHAEL DOGIE LexID: 000700588524 DOB: 5/xx/1957
452-15-xxxx issued in Texas between 1/1/1972 and 12/31/1973
MICHAEL DUGI LexID: 000700588524 210-15-xxxx - SSN potentially randomly issued by the SSA. DOB: 5/xx/1957
MICHAEL DUGI LexID: 000700588524 DOB: 5/xx/1957
452-15-xxxx issued in Texas between 1/1/1972 and 12/31/1973
MICHAEL DUGI LexID: 000700588524 DOB: 1958
452-15-xxxx issued in Texas between 1/1/1972 and 12/31/1973

Previous And Non-Verified Address(es):

607 OLNEY DR, SAN ANTONIO, TX 78209-4940, BEXAR COUNTY (Jan 2016 - Jul 2020)

Current Residents at Address:

SONYA K BAKER
SHELDON FRANCIS BAKER
MICHAEL DUANE DUGI

1980 COUNTY ROAD 233, FLORESVILLE, TX 78114-3381, WILSON COUNTY (Feb 2002 - Jan 2017)

Current Residents at Address:

DANIEL DAVE DUGI

128 CLAREMONT APT 4, SAN ANTONIO, TX 78209-6723, BEXAR COUNTY (Nov 2006 - Nov 2016)

Current Residents at Address:

DOMINIC A SIMONS
KASSIE LYNN BAKER
ANDREW LEON BANKS

539 E NOTTINGHAM DR, SAN ANTONIO, TX 78209-3435, BEXAR COUNTY (Jan 2012 - Mar 2016)

Current Residents at Address:

DEIDRE GRAY
JUDITH M STANTON

Current phones listed at this address:

210-826-4357 - CDT STANTON PETER

210-442-8014 - CDT STANTON PETER J

1104 TERRELL ST, CUERO, TX 77954-3458, DEWITT COUNTY (Oct 2010 - Nov 2011)

Current Residents at Address:

PAMELA J LONGBOTHAM
RAMSEY LEE LONGBOTHAM
THOMAS NATHANIEL LONGBOTHAM
361-275-5763 - CDT LONGBOTHAM RAMSEY L

1980 COUNTY ROAD 2, FLORESVILLE, TX 78114, WILSON COUNTY (Aug 2011)
1980 COUNTY RD, FLORESVILLE, TX 78114, WILSON COUNTY (Mar 2007 - Jun 2007)
730 HAMMOND AVE, SAN ANTONIO, TX 78210-3110, BEXAR COUNTY (Dec 2004 - May 2007)
Current Residents at Address:
JOSEPH HUGHES GREEN JR
JOHN JOSE MURILLO
MATTHEW CHARLES NELSON
JOHN NIXON PULLEN
HIRAM TORRES
DAVID FLORES VILLKNUEVA
JOSEPH VANBUREN BATEMAN III
TODD ALLAN LEHRMANN
JOHNTHOMAS PERRYMAN
FRANK ANTHONY GARZA JR
4218 TERRON RD, SAN ANTONIO, TX 78222-1917, BEXAR COUNTY (Apr 1995 - Jan 1997)
Current Residents at Address:
BLANCA LARA TOBAR
MARIE ANASTACIA MONTES
REYES J RUELAS SR
AURORA MENDEZ RUELAS
BLANCA LUZ TOVAR
GUADALUPE RODRIGUEZ MARTINEZ
MARIA ELENA TOVAR
MIGUEL A SANABRIA
CYNTHIA CELESTE TOVAR
CRISTIAN NOE SERRANO
PO BOX 697AP, POTH, TX 78147, WILSON COUNTY (Dec 1993)

JARETH ANTHONY DUGI LexID: 000700189719 DOB: 1/xx/1968
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982
Names Associated with Relative:
DUGI JARETH LexID: 000700189719 DOB: 1/xx/1968
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982
JARRETH DUGI LexID: 000700189719 DOB: 1/xx/1968
450-55-xxxx issued in Texas between 1/1/1981 and 12/31/1982
Previous And Non-Verified Address(es):
4706 DEL MAR TRL, SAN ANTONIO, TX 78251-3508, BEXAR COUNTY (Oct 2008 - Jul 2020)
Current Residents at Address:
JARETH ANTHONY DUGI
LAURIE FELUX DUGI
607 N DICKSON ST, POTH, TX 78147-1103, WILSON COUNTY (Jan 1995 - Nov 2013)

830-484-1213

PO BOX 53, POTH, TX 78147-0053, WILSON COUNTY (Jun 1991 - Feb 2013)
607 DICKSON ST, UNIVERSAL CITY, TX 78148, BEXAR COUNTY (Jul 2010 - Jul 2011)
7530 ROBIN REST DR APT R1, SAN ANTONIO, TX 78209-3174, BEXAR COUNTY (Dec 1987 - Sep 2004)
7530 RO BLD REST R, SAN ANTONIO, TX 77209-0001, HARRIS COUNTY (Apr 1991)
RR 5 BOX 220B, FLORESVILLE, TX 78114-9805, WILSON COUNTY (Mar 1991)
1117 ONEY HERVEY DR, COLLEGE STATION, TX 77840-4215, BRAZOS COUNTY (Nov 1989 - Dec 1990)

Current Residents at Address:
ANNA MCGUIRE CROWLING
MIKAELA CHRISTINE MONTGOMERY

117 ONEY HERVEY, COLLEGE STATION, TX 77840, BRAZOS COUNTY (Oct 1989)
PO BOX 220, FLORESVILLE, TX 78114-0220, WILSON COUNTY (Mar 1989)

LAURIE FELUX DUGI LexID: 000700812921 DOB: 4/xx/1969
450-49-xxxx issued in Texas between 1/1/1980 and 12/31/1980

Names Associated with Relative:
LAURIE L DUGI LexID: 000700812921 DOB: 4/xx/1969
450-49-xxxx issued in Texas between 1/1/1980 and 12/31/1980

Previous And Non-Verified Address(es):
4706 DEL MAR TRL, SAN ANTONIO, TX 78251-3508, BEXAR COUNTY (Jun 2012 - Jul 2020)

Current Residents at Address:
JARETH ANTHONY DUGI
LAURIE FELUX DUGI

PO BOX 53, POTH, TX 78147-0053, WILSON COUNTY (Jun 1991 - Jan 2013)
607 N DICKSON ST, POTH, TX 78147-1103, WILSON COUNTY (Jan 1995 - Jan 2013)
1303 RAILROAD ST, POTH, TX 78147, WILSON COUNTY (Jul 2005)
7530 ROBIN REST DR APT R1, SAN ANTONIO, TX 78209-3174, BEXAR COUNTY (Jun 1994 - Dec 1995)
DICKSON ST, POTH, TX 78147, WILSON COUNTY (Sep 1994 - Jan 1995)

APRIL VICTORIA GORZELL LexID: 113988989622 DOB: 5/xx/1990
631-16-xxxx issued in Texas between 1/1/1990 and 12/31/1990

Names Associated with Relative:
APRIL VICTORIA DUGI LexID: 113988989622 DOB: 5/xx/1990
631-16-xxxx issued in Texas between 1/1/1990 and 12/31/1990
APRIL DUGI LexID: 113988989622 DOB: 5/xx/1990
APRIL DUGI LexID: 113988989622 DOB: 5/xx/1990

APRIL GORVELL LexID: 113988989622 DOB: 5/xx/1990
JARETH DUGI LexID: 113988989622 DOB: 5/xx/1990
Previous And Non-Verified Address(es):
188 GENTLE BREEZE, FLORESVILLE, TX 78114-3351, WILSON COUNTY (Jun 2017 - Jul 2020)
Current Residents at Address:
COLE THOMAS GORZELL
APRIL VICTORIA GORZELL
4706 DEL MAR TRL, SAN ANTONIO, TX 78251-3508, BEXAR COUNTY (Oct 2012 - Mar 2020)
Current Residents at Address:
JARETH ANTHONY DUGI
LAURIE FELUX DUGI
702 F ST, FLORESVILLE, TX 78114-2511, WILSON COUNTY (May 2015 - Sep 2019)
Current Residents at Address:
ALICE A LANGE
149 GENTLE BREEZE, FLORESVILLE, TX 78114-3351, WILSON COUNTY (Sep 2017)
17200 WESTGROVE DR APT 1412, ADDISON, TX 75001-7129, DALLAS COUNTY (Jul 2014 - Jan 2015)
9914 W MILITARY DR APT 214, SAN ANTONIO, TX 78251-1786, BEXAR COUNTY (Apr 2013 - Mar 2014)
3613 VIENNA DR, COLLEGE STATION, TX 77845-4771, BRAZOS COUNTY (May 2010 - Oct 2013)
Current Residents at Address:
ADOLFO GONZALEZ
ABIGAIL CASCASAN VELAZQUEZ
607 N DICKSON ST, POTH, TX 78147-1103, WILSON COUNTY (Jun 2006 - Nov 2012)
PO BOX 53, POTH, TX 78147-0053, WILSON COUNTY (Aug 2008 - Sep 2012)

SONYA K BAKER LexID: 000118216511 DOB: 10/xx/1961
460-31-xxxx issued in Texas between 1/1/1975 and 12/31/1975

Names Associated with Relative:
SONYA KAY DUGI LexID: 000118216511 DOB: 10/xx/1961
460-31-xxxx issued in Texas between 1/1/1975 and 12/31/1975

SONYA KAY BAKER LexID: 000118216511 DOB: 10/xx/1961
460-31-xxxx issued in Texas between 1/1/1975 and 12/31/1975

SONYA K BAKER LexID: 000118216511 DOB: 1962
460-31-xxxx issued in Texas between 1/1/1975 and 12/31/1975

Previous And Non-Verified Address(es):
607 OLNEY DR, SAN ANTONIO, TX 78209-4940, BEXAR COUNTY (Jan 2016 - Jul 2020)

Current Residents at Address:
SONYA K BAKER
SHELDON FRANCIS BAKER
MICHAEL DUANE DUGI
128 CLAREMONT APT 4, SAN ANTONIO, TX 78209-6723, BEXAR COUNTY (Dec 1998 - Mar 2016)
Current Residents at Address:
DOMINIC A SIMONS
KASSIE LYNN BAKER
ANDREW LEON BANKS
9400 FRED ROCKLBEY RD APT 801, SAN ANTONIO, TX 78240, BEXAR COUNTY (Aug 2000 - Dec 2014)
133 N PLANT AVE, BOERNE, TX 78006-1726, KENDALL COUNTY (Nov 1998 - Apr 2012)
Current Residents at Address:
PRIYA HEATHERLEY
RAUL GABRIEL FLORES
9400 FREDERICKSBURG RD APT 801, SAN ANTONIO, TX 78240-1251, BEXAR COUNTY (Nov 2000 - Jan 2011)
11762 SPRING CLUB DR APT 4901, SAN ANTONIO, TX 78249-2671, BEXAR COUNTY (Oct 2004 - Oct 2010)
128 CLAREMONT APT 4901, SAN ANTONIO, TX 78209-6723, BEXAR COUNTY (Aug 2006)
11146 VANCE JACKSON RD APT 4901, SAN ANTONIO, TX 78230-2564, BEXAR COUNTY (Dec 2003 - Jul 2004)
6711 SPRING HOLLOW ST, SAN ANTONIO, TX 78249-2712, BEXAR COUNTY (Mar 2001 - Mar 2004)
Current Residents at Address:
JONATHAN PATRICK ALVAREZ
210-699-3405

107 COUNTRY COR, BOERNE, TX 78006-6431, KENDALL COUNTY (Dec 1994 - May 2003)
Current Residents at Address:
IRMA M GARCIA
ESPERANZA MORAN
RAYMUNDO RODRIGUEZ MORAN
REYMUNDO RIVERA MORAN
JUAN BRIONES TOVAR
CHANTAL MORAN
MARICELA MORAN
830-537-5412 - CDT MORAN ESPERANZA

MATTHEW GERARD DUGI LexID: 061940617166 DOB: 4/xx/1988
639-12-xxxx issued in Texas between 1/1/1990 and 12/31/1990
Names Associated with Relative:

MATT G DUGI LexID: 061940617166 DOB: 4/xx/1988
639-12-xxxx issued in Texas between 1/1/1990 and 12/31/1990
MATTHEW GERARD LexID: 061940617166 DOB: 4/xx/1988
Previous And Non-Verified Address(es):
PO BOX 83898, PORTLAND, OR 97283-0898, MULTNOMAH COUNTY (May 2019 - Jul 2020)
Current Residents at Address:
MATTHEW GERARD DUGI
2266 W MISTLETOE AVE, SAN ANTONIO, TX 78201-5331, BEXAR COUNTY (Jul 2004 - Jul 2020)
Current Residents at Address:
ELIZABETH W WALDSACHS DUGI
LOUISA EMILY CRISTADORO
8940 N BRADFORD ST, PORTLAND, OR 97203-2811, MULTNOMAH COUNTY (Oct 2019)
Current Residents at Address:
MICHAEL M MELCHIORI
SCOTT BENJAMIN SUTTON
ROMAN WAYNE SORENSEN
233 RD, FLORESVILLE, TX 78114, WILSON COUNTY (Dec 2006 - Oct 2007)

JESSE NATHANIEL DUGI LexID: 155193726438 DOB: 4/xx/1993
634-36-xxxx issued in Texas between 6/2/1993 and 12/1/1993
Previous And Non-Verified Address(es):
7727 POTRANCO RD APT 3204, SAN ANTONIO, TX 78251-2003, BEXAR COUNTY (Sep 2019 - Jul 2020)
6023 UTSA BLVD APT 1207, SAN ANTONIO, TX 78249-1916, BEXAR COUNTY (Jan 2016 - Jul 2020)
4706 DEL MAR TRL, SAN ANTONIO, TX 78251-3508, BEXAR COUNTY (Dec 2012 - Jul 2020)
Current Residents at Address:
JARETH ANTHONY DUGI
LAURIE FELUX DUGI
607 N DICKSON ST, POTH, TX 78147-1103, WILSON COUNTY (Jul 2008 - Oct 2016)
PO BOX 53, POTH, TX 78147-0053, WILSON COUNTY (Jul 2011 - Oct 2011)

FRANCINE MARIE DUGI LexID: 000354824132 DOB: 7/xx/1968
459-55-xxxx issued in Texas between 1/1/1982 and 12/31/1982
Names Associated with Relative:
FRANCINE CAMBER DUGI LexID: 000354824132 DOB: 7/xx/1968
459-55-xxxx issued in Texas between 1/1/1982 and 12/31/1982
FRANCINE M CAMBER LexID: 000354824132 DOB: 7/xx/1968
459-55-xxxx issued in Texas between 1/1/1982 and 12/31/1982
DUGI CAMBER LexID: 000354824132 DOB: 7/xx/1968
459-55-xxxx issued in Texas between 1/1/1982 and 12/31/1982
F DUGI LexID: 000354824132 DOB: 7/xx/1968
459-55-xxxx issued in Texas between 1/1/1982 and 12/31/1982

Previous And Non-Verified Address(es):
3765 COUNTY ROAD 404, FLORESVILLE, TX 78114-3366, WILSON COUNTY (1995 - Jul 2020)
Current Residents at Address:
FRANCINE MARIE DUGI
DARRIN ANTHONY DUGI
BRIANNA MARIE DUGI
BROCK MICHAEL DUGI
830-393-0150

497 10TH ST STE 201, FLORESVILLE, TX 78114-3178, WILSON COUNTY (Dec 2013 - Sep 2014)
1690 FM 3191, FALLS CITY, TX 78113-5247, KARNES COUNTY (2007 - 2014)
Current Residents at Address:
LORENE M CAMBER
830-745-2160

RR 5 BOX 208D, FLORESVILLE, TX 78114-9805, WILSON COUNTY (Dec 1988 - Jun 2002)
3565 COUNTRY RD, FLORESVILLE, TX 78114, WILSON COUNTY (Jul 1999)
830-393-0150

3565 COUNTY ROAD 404, FLORESVILLE, TX 78114-3508, WILSON COUNTY (Jul 1999)
830-393-0150

3910 MEADOW RIDGE ST, SAN ANTONIO, TX 78210-5720, BEXAR COUNTY (Apr 1992 - Feb 1996)
Current Residents at Address:
MARINA CASTILLO WILLIAMS
GERARDO TO GONZALES
ROSARIO CASTILLO SALINAS
MARY ANGELEE KOWALIK
7207 SNOWDEN RD APT 1406, SAN ANTONIO, TX 78240-5106, BEXAR COUNTY (Dec 1988 - Aug 1991)
RR 1 BOX 144C, FALLS CITY, TX 78113-9816, KARNES COUNTY (Feb 1990)

BENJAMIN JAMES DUGI LexID: 000700067714 DOB: 1/xx/1934
459-64-xxxx issued in Texas between 1/1/1956 and 12/31/1957
Names Associated with Relative:
BEN J DUGI LexID: 000700067714 DOB: 1/xx/1934
459-64-xxxx issued in Texas between 1/1/1956 and 12/31/1957
Previous And Non-Verified Address(es):
3939 COUNTY ROAD 404, FLORESVILLE, TX 78114-3365, WILSON COUNTY

(Oct 1999 - Jul 2020)

Current Residents at Address:

BENJAMIN JAMES DUGI
GRACE KOTZUR DUGI
830-393-3748

3561 COUNTY ROAD 404, FLORESVILLE, TX 78114-3508, WILSON COUNTY
(Mar 2018 - Jan 2020)

Current Residents at Address:

ENRIQUE R DELOSSANTOS

3765 COUNTY ROAD 404, FLORESVILLE, TX 78114-3366, WILSON COUNTY
(Aug 2011 - Sep 2019)

Current Residents at Address:

FRANCINE MARIE DUGI
DARRIN ANTHONY DUGI
BRIANNA MARIE DUGI
BROCK MICHAEL DUGI

111 WINDCREST, FLORESVILLE, TX 78114-1614, WILSON COUNTY
(Aug 2017 - Oct 2017)

Current Residents at Address:

ISABEL V HERNANDEZ
MATTHEW JAMES MOCZYGEMBA
MIGUEL ANTONIO IBARRA

3765 C R 404, FLORESVILLE, TX 78114, WILSON COUNTY
(Dec 2010 - Dec 2016)

RR 5 BOX 208, FLORESVILLE, TX 78114-9431, WILSON COUNTY
(Apr 1988 - Aug 2002)

3939 COUNTY RD, FLORESVILLE, TX 78114, WILSON COUNTY (Apr 2000)

RR 4 BOX 208, FLORESVILLE, TX 78114-9804, WILSON COUNTY
(Jul 1985 - Dec 1992)

PO BOX RR, FLORESVILLE, TX 78114, WILSON COUNTY
(Feb 1962 - Dec 1989)

4714 WINNEWAY DR, SAN ANTONIO, TX 78222-1257, BEXAR COUNTY
(Feb 1962)

Current Residents at Address:

LEONA M MOCZYGEMBA
210-648-7463 - CDT MOCZYGEMBA STANLEY

DARRIN ANTHONY DUGI LexID: 000700182116 DOB: 2/xx/1966
466-90-xxxx issued in Texas between 1/1/1966 and 12/31/1967

Names Associated with Relative:

D DUGI LexID: 000700182116 DOB: 2/xx/1966
466-90-xxxx issued in Texas between 1/1/1966 and 12/31/1967
DARRMN DUGI LexID: 000700182116 DOB: 2/xx/1966
466-90-xxxx issued in Texas between 1/1/1966 and 12/31/1967
DARRN DUGI LexID: 000700182116 DOB: 2/xx/1966

466-90-xxxx issued in Texas between 1/1/1966 and 12/31/1967

Previous And Non-Verified Address(es):

3765 COUNTY ROAD 404 APT RD404, FLORESVILLE, TX 78114-3366, WILSON COUNTY (May 1992 - Jul 2020)

830-393-0150

3765 C R 404, FLORESVILLE, TX 78114, WILSON COUNTY (Jan 2005 - Apr 2017)

290 MEADOWLAKE DR, FLORESVILLE, TX 78114, WILSON COUNTY (Mar 2014 - Jul 2014)

RR 5 BOX 208D, FLORESVILLE, TX 78114-9431, WILSON COUNTY (Dec 1988 - Jun 2002)

3910 MEADOW RIDGE ST, SAN ANTONIO, TX 78210-5720, BEXAR COUNTY (Dec 1988 - Dec 2001)

Current Residents at Address:

MARINA CASTILLO WILLIAMS
GERARDO TO GONZALES
ROSARIO CASTILLO SALINAS
MARY ANGELEE KOWALIK

3765 404 COUNTY RD, FLORESVILLE, TX 78114, WILSON COUNTY (Jul 1999)

PO BOX 5, FLORESVILLE, TX 78114-0005, WILSON COUNTY (Dec 1992 - Jun 1998)

Current Residents at Address:

LUCINDA R RUIZ
BERNICE MEYER TATUM

7207 SNOWDEN RD APT 1406, SAN ANTONIO, TX 78240-5106, BEXAR COUNTY (Dec 1988 - Jan 1994)

BRIANNA MARIE DUGI LexID: 191324837396 DOB: 4/xx/1998

627-62-xxxx issued in Texas between 4/3/1998 and 10/1/1998

Names Associated with Relative:

BRIANNA MARUE DUGI LexID: 191324837396 DOB: 4/xx/1998

627-62-xxxx issued in Texas between 4/3/1998 and 10/1/1998

Previous And Non-Verified Address(es):

3765 COUNTY ROAD 404, FLORESVILLE, TX 78114-3366, WILSON COUNTY (Jun 2013 - Jul 2020)

Current Residents at Address:

FRANCINE MARIE DUGI
DARRIN ANTHONY DUGI
BRIANNA MARIE DUGI
BROCK MICHAEL DUGI

1501 OLYMPIA WAY, COLLEGE STATION, TX 77840-3552, BRAZOS COUNTY (Mar 2018)

BROCK MICHAEL DUGI LexID: 191365691712 DOB: 4/xx/1998

627-62-xxxx issued in Texas between 4/3/1998 and 10/1/1998

Names Associated with Relative:

M DUGI BROCK LexID: 191365691712 DOB: 4/xx/1998

627-62-xxxx issued in Texas between 4/3/1998 and 10/1/1998

MICHAEL DUGI BROCK LexID: 191365691712 DOB: 4/xx/1998
627-62-xxxx issued in Texas between 4/3/1998 and 10/1/1998
Previous And Non-Verified Address(es):
3765 COUNTY ROAD 404, FLORESVILLE, TX 78114-3366, WILSON COUNTY (Jul 2013 - Jul 2020)
Current Residents at Address:
FRANCINE MARIE DUGI
DARRIN ANTHONY DUGI
BRIANNA MARIE DUGI
BROCK MICHAEL DUGI
3765 C R 404, FLORESVILLE, TX 78114, WILSON COUNTY (Jan 2020)
2681 CANTEY ST APT 53, BRENHAM, TX 77833-2495, WASHINGTON COUNTY (Oct 2016 - Sep 2017)

DANIEL DUGI 2 LexID: 031603004939 DOB: 2/xx/1977
Previous And Non-Verified Address(es):
146 POST OAK WAY, CUERO, TX 77954-2228, DEWITT COUNTY
Current Residents at Address:
DANIEL DAVID DUGI
BLI RAE MARSTON
202 POST OAK WAY, CUERO, TX 77954-2232, DEWITT COUNTY
361-277-9177

Neighbors:

Neighborhood:
2500 N ESPLANADE ST STE 102, CUERO, TX 77954-4727, DEWITT COUNTY (Feb 2011 - Jul 2020)
Residents:
CAROLYN DALE DENTON DOB: 7/xx/1966
414-37-xxxx issued in Tennessee between 1/1/1982 and 12/31/1983
WILLIAM KEVIN DENTON DOB: 12/xx/1965
408-37-xxxx issued in Tennessee between 1/1/1981 and 12/31/1982
DANIEL DAVID DUGI DOB: 4/xx/1955
449-11-xxxx issued in Texas between 1/1/1971 and 12/31/1971
MARK ALAN HEARD DOB: 12/xx/1956
465-23-xxxx issued in Texas between 1/1/1973 and 12/31/1974
DAVID PARNELL HILL DOB: 8/xx/1955
455-02-xxxx issued in Texas between 1/1/1969 and 12/31/1969
RAYMOND RANDOLPH REESE DOB: 11/xx/1934

460-42-xxxx issued in Texas between 1/1/1936 and 12/31/1951

SUSAN LYNN MIMS DOB: 4/xx/1984

637-07-xxxx issued in Texas between 1/1/1989 and 12/31/1989

ASHLEY LYNN HAGAN DOB: 7/xx/1989

630-10-xxxx issued in Texas between 1/1/1990 and 12/31/1990

SHERYL A MILLS DOB: 1/xx/1981

508-53-xxxx issued in Nebraska between 6/3/2008 and 10/1/2009

361-275-3466 - CDT CUERO MEDICAL CLINIC

Address(es):

2500 N ESPLANADE ST STE 101, CUERO, TX 77954-4727, DEWITT COUNTY (Jan 1997 - Apr 2020)

Residents:

DANIEL DAVID DUGI LexID: 000700170916 DOB: 4/xx/1955

449-11-xxxx issued in Texas between 1/1/1971 and 12/31/1971

DEBORAH CHRISTINA AGUILAR LexID: 000018164085 DOB: 6/xx/1982

462-95-xxxx issued in Texas between 1/1/1988 and 12/31/1988

361-275-3561

2500 N ESPLANADE ST STE 103, CUERO, TX 77954-4727, DEWITT COUNTY (Jan 1997 - Jul 2020)

VALENTE ANTONIO BENAVIDES LexID: 000181009759 DOB: 1/xx/1964

523-21-xxxx issued in Colorado between 1/1/1978 and 12/31/1978

2550 N ESPLANADE ST, CUERO, TX 77954-4736, DEWITT COUNTY (2010 - Jul 2020)

Residents:

JUSTIN WADE POWELL LexID: 002036727152 DOB: 10/xx/1966

465-49-xxxx issued in Texas between 1/1/1980 and 12/31/1981

NEIL ANTHONY CAMPBELL LexID: 000358191595 DOB: 4/xx/1966

522-92-xxxx issued in Colorado between 1/1/1972 and 12/31/1972

ALFRED PALMER BOWLES LexID: 000248934861 DOB: 7/xx/1964

306-76-xxxx issued in Indiana between 1/1/1975 and

12/31/1976

CUERO REGIONALHOSPITAL LexID: 238772978708

CHRISTOPHER IVAN KARMOUT LexID: 239290881822 DOB: 1/xx/1989

Current phones listed at this address:

361-275-1250 - CDT CUERO COMMUNITY HOSPITAL

361-275-3522 - CDT CUERO COMMUNITY HOSPITAL

361-275-6191 - CDT CUERO COMMUNITY HOSPITAL

2400 N ESPLANADE ST, CUERO, TX 77954-4734, DEWITT COUNTY (Oct 1990 - Jul 2020)

Residents:

CARALINE DELOSSANTOS LexID: 000608076818 DOB: 10/1952

467-96-xxxx issued in Texas between 1/1/1968 and 12/31/1969

GEORGE GLENN STAFFORD LexID: 000947366066 DOB: 4/xx/1950

459-84-xxxx issued in Texas between 1/1/1965 and 12/31/1965

MIRIAM ELIZ FERNANDEZ DE BROWN LexID: 152143565126

CHETAN VASANTLAL PATEL LexID: 055581314044 DOB: 4/xx/1970

730-03-xxxx issued in Enumeration at Entry between 6/2/2004 and 5/2/2005

SSN was issued to a non-US citizen.

DIVYA CHETANKUMAR PATEL LexID: 192615321981 DOB: 6/xx/1983

678-18-xxxx issued in Arkansas between 8/4/2009 and 8/2/2010

Current phones listed at this address:

361-524-5213 - CDT HOTEL TEXAS

361-524-5224 - CDT HOTEL TEXAS

361-524-5246 - CDT HOTEL TEXAS

361-277-8624

2500 N ESPLANADE ST APT, CUERO, TX 77954-4723, DEWITT COUNTY (Oct 1997 - Apr 2020)

RAYMOND RANDOLPH REESE LexID: 002117206412 DOB:

11/xx/1934
460-42-xxxx issued in Texas between 1/1/1936 and 12/31/1951

Neighborhood:
146 POST OAK WAY APT 77954, CUERO, TX 77954-2228, DEWITT COUNTY (Nov 1998 - Sep 2020)
361-277-3528

Address(es):
159 POST OAK WAY, CUERO, TX 77954-2239, DEWITT COUNTY (Sep 1993 - Jul 2020)

Residents:
KAREN CANTLEY HIGH LexID: 001127536690 DOB: 2/xx/1957
467-02-xxxx issued in Texas between 1/1/1969 and 12/31/1970

PAULA G HIGH LexID: 001128269398 DOB: 7/xx/1924
461-24-xxxx issued in Texas between 1/1/1936 and 12/31/1951
SSN belongs to a person reported as deceased.

KARON HIGH LexID: 001128558293 DOB: 2/xx/1955
460-08-xxxx issued in Texas between 1/1/1971 and 12/31/1971
SSN belongs to a person reported as deceased.

EILEEN RANGNOW BARTH LexID: 000147379156 DOB: 12/xx/1944
459-72-xxxx issued in Texas between 1/1/1961 and 12/31/1962

FINLEY BARTH LexID: 194714849491

EILEEN F BARTH LexID: 195429689353

361-275-6636 - CDT HIGH ACE

117 POST OAK WAY, CUERO, TX 77954-2239, DEWITT COUNTY (Apr 2005 - Jul 2020)

Residents:
DONNA K RANDLE LexID: 002077688869 DOB: 3/xx/1956
464-76-xxxx issued in Texas between 1/1/1962 and 12/31/1963

CLAYTON J MARKOS LexID: 001605393184 DOB: 11/xx/1982
449-85-xxxx issued in Texas between 1/1/1987 and 12/31/1987

ASHLEY RENE DWORACZYK LexID: 012426008159 DOB: 9/xx/1984

644-09-xxxx issued in Texas between 1/1/1989 and 12/31/1990

183 POST OAK WAY, CUERO, TX 77954-2239, DEWITT COUNTY (Nov 1998 - Jul 2020)

Residents:

JENNIE LORRAINE PRITCHETT LexID: 001655197105 DOB: 2/xx/1963

449-21-xxxx issued in Texas between 1/1/1973 and 12/31/1973

GREGORY SCOTT PRITCHETT LexID: 002048682319 DOB: 7/xx/1962

452-35-xxxx issued in Texas between 1/1/1975 and 12/31/1976

JEAN L KAISER LexID: 001297537173 DOB: 3/xx/1928

456-82-xxxx issued in Texas between 1/1/1964 and 12/31/1964

SSN belongs to a person reported as deceased.

MAC MCCLUNG LexID: 158563366989 DOB: 1988

629-03-xxxx issued in Texas between 1/1/1988 and 12/31/1989

ASHLIE NICOLE PRITCHETT LexID: 168254443230 DOB: 7/xx/1996

644-52-xxxx issued in Texas between 9/4/1996 and 1/2/1997

GREG L PRITCHETT LexID: 193874503690 DOB: 12/xx/1990

361-275-9820 - CDT PRITCHETT JENNIE L

188 POST OAK WAY, CUERO, TX 77954-2228, DEWITT COUNTY (Feb 2005 - Jun 2020)

FRANK WILLIAM BURNS 2 LexID: 000329770245 DOB: 10/xx/1945

449-74-xxxx issued in Texas between 1/1/1961 and 12/31/1962

204 POST OAK WAY, CUERO, TX 77954-2232, DEWITT COUNTY (Jul 1993 - Apr 2020)

FRANK WILLIAM BURNS 2 LexID: 000329770245 DOB: 10/xx/1945

449-74-xxxx issued in Texas between 1/1/1961 and 12/31/1962

Neighborhood:

502 E LIVE OAK ST, CUERO, TX 77954-2965, DEWITT COUNTY (Jan 2014 - 2019)

Residents:

CONNIE CHRISTINE CATRON DOB: 8/xx/1972
322-60-xxxx issued in Illinois between 1/1/1974 and 12/31/1975
KEITH WAYNE CATRON DOB: 2/xx/1971
324-54-xxxx issued in Illinois between 1/1/1972 and 12/31/1973
PATRICK J KOLIBA JR DOB: 12/xx/1961
455-29-xxxx issued in Texas between 1/1/1974 and 12/31/1975

Address(es):
504 E LIVE OAK ST, CUERO, TX 77954-2965, DEWITT COUNTY (Nov 2010 - Jul 2020)
Residents:
JULIE R GIPS LexID: 000317513380 DOB: 9/xx/1945
459-72-xxxx issued in Texas between 1/1/1961 and 12/31/1962
ANNIE ECHAVARRIA ECHAVERRIA LexID: 001505050215 DOB: 6/xx/1963
449-21-xxxx issued in Texas between 1/1/1973 and 12/31/1973
MINNIE E FERGUSON LexID: 167734058358 DOB: 1/xx/1903
361-275-5469 - CDT BUENGER JULIE G

505 E LIVE OAK ST, CUERO, TX 77954-2964, DEWITT COUNTY (Jan 2012 - Jul 2020)
Residents:
JERRY NEIL HARTL LexID: 001073943474 DOB: 10/xx/1924 DOD: 2/24/2009 (CALHOUN, TX) Age at Death: 84 (Born 95 years ago) - Proof
458-30-xxxx issued in Texas between 1/1/1936 and 12/31/1951
SSN belongs to a person reported as deceased.
ELIZABETH STEBBINS LexID: 001425495283 DOB: 3/xx/1962
463-27-xxxx issued in Texas between 1/1/1974 and 12/31/1975

508 E LIVE OAK ST, CUERO, TX 77954-2965, DEWITT COUNTY (Sep 2018 - Jul 2020)
Residents:
MAURYANA N DASILVA LexID: 237705961283 DOB: 9/xx/1980
629-06-xxxx issued in Texas between 10/3/2006 and

3/1/2007
ROBERT JOHN MOLINA LexID: 008436877918 DOB: 10/xx/1983
463-89-xxxx issued in Texas between 1/1/1987 and 12/31/1987

509 E LIVE OAK ST, CUERO, TX 77954-2964, DEWITT COUNTY (Feb 1991 - Jul 2020)
Residents:
JENNIE PEREZ BROWN LexID: 000296408149 DOB: 10/xx/1955
555-04-xxxx issued in California between 1/1/1970 and 12/31/1971
VALERIE GERARD BROWN LexID: 000304125046 DOB: 10/xx/1953
453-78-xxxx issued in Texas between 1/1/1963 and 12/31/1963
SHERRI DAWN HAWKINS LexID: 001083472450 DOB: 5/xx/1971
457-65-xxxx issued in Texas between 1/1/1984 and 12/31/1984

408 E LIVE OAK ST, CUERO, TX 77954-2963, DEWITT COUNTY (Oct 2011 - Jul 2020)
KELLY GRUVER LexID: 188036096447
406 E LIVE OAK ST, CUERO, TX 77954-2963, DEWITT COUNTY (Oct 1996 - Jul 2020)
EUFEMIO I SALINAS 3 LexID: 002235257317 DOB: 7/xx/1957
449-08-xxxx issued in Texas between 1/1/1970 and 12/31/1971
Neighborhood:
12 TIERRA VERDE DR, DURANGO, CO 81301-7789, LA PLATA COUNTY (Jan 2007 - Oct 2017)

Address(es):
11 TIERRA VERDE DR, DURANGO, CO 81301-7787, LA PLATA COUNTY (Jan 2007 - Jul 2020)
BETH A BERGHOFF LexID: 000191172618 DOB: 10/xx/1952
311-54-xxxx issued in Indiana between 1/1/1965 and 12/31/1966
15 TIERRA VERDE DR, DURANGO, CO 81301-7787, LA PLATA COUNTY (Apr 2020 - Jul 2020)
Residents:
JOSEPH HAMILTON TOWER LexID: 002545705794 DOB: 8/xx/1980
359-78-xxxx issued in Illinois between 1/1/1987 and

12/31/1988
JOSEPH H TOWER LexID: 180310512317 DOB: 1/xx/1950
359-78-xxxx issued in Illinois between 1/1/1987 and 12/31/1988
BERTRAM BAILEY TOWER JR LexID: 002544855994 DOB: 8/xx/1948
144-40-xxxx issued in New Jersey between 1/1/1964 and 12/31/1965
CECI HAMILTON TOWER JR LexID: 002546454019 DOB: 3/xx/1950
481-64-xxxx issued in Iowa between 1/1/1965 and 12/31/1966

16 TIERRA VERDE DR, DURANGO, CO 81301-7789, LA PLATA COUNTY (Nov 2008 - Jul 2020)
Residents:
TYLER J OTTESON LexID: 114634558956 DOB: 5/xx/1990
622-40-xxxx issued in California between 1/1/1990 and 12/31/1991
KIMBERLY YARNELL OTTESON LexID: 000060648303 DOB: 1/xx/1957
561-02-xxxx issued in California between 1/1/1970 and 12/31/1971

✔8 TIERRA VERDE DR 5, DURANGO, CO 81301-7789, LA PLATA COUNTY (Dec 2006 - Jul 2020)
LESLIE MORRISON VANCLEVE LexID: 002591240682 DOB: 9/xx/1935
264-50-xxxx issued in Florida between 1/1/1952 and 12/31/1953
970-259-2504 - MDT VANCLEVE LESLIE

✔20 TIERRA VERDE DR, DURANGO, CO 81301-7789, LA PLATA COUNTY (Feb 2003 - Jun 2020)
Residents:
JAMES C REED LexID: 000753380834 DOB: 6/xx/1963
448-62-xxxx issued in Oklahoma between 1/1/1977 and 12/31/1979
RALPH HENRY CAMPANO LexID: 000355728488 DOB: 7/xx/1963
243-29-xxxx issued in North Carolina between 1/1/1979 and 12/31/1980
SARA A CAMPANO LexID: 002520891702 DOB: 9/xx/1972
214-92-xxxx issued in Maryland between 1/1/1979 and 12/31/1980
970-385-6881 - MDT REED JAMES

Source Information:

All Sources	224 Source Document(s)
Professional Licenses	38 Source Document(s)
Person Locator 1	10 Source Document(s)
Voter Registrations	4 Source Document(s)
PhonesPlus Records	8 Source Document(s)
Historical Person Locator	57 Source Document(s)
Deed Transfers	4 Source Document(s)
Tax Assessor Records	63 Source Document(s)
Utility Locator	1 Source Document(s)
Person Locator 4	2 Source Document(s)
Person Locator 5	10 Source Document(s)
Person Locator 6	27 Source Document(s)

COPY OF A CERTIFIED COPY

OF

CERTIFICATE OF INCORPORATION

OF

AMERICAN SMELTING AND REFINING COMPANY

As Amended December 26, 1928.

Incorporated April 4th, 1899,
Under the Laws of New Jersey.

PRINTED IN THE UNITED STATES BY C. G. BURGOYNE, INC., 107 LIBERTY STREET, NEW YORK

CERTIFICATE OF INCORPORATION

OF

AMERICAN SMELTING AND REFINING COMPANY.

10c Revenue Stamp Affixed and Cancelled.

We, the undersigned, in order to associate ourselves, pursuant to an Act of the Legislature of the State of New Jersey, entitled "An Act Concerning Corporations, Revision of 1896," and all amendatory and supplemental acts, into a corporation to carry on the business hereinafter stated, hereby certify as follows:

1. The name of the corporation is:

AMERICAN SMELTING AND REFINING COMPANY.

2. The principal office of the corporation in the State of New Jersey is at No. 83 Montgomery Street, in Jersey City, in the County of Hudson. The name of the agent therein and in charge thereof and upon whom process against the corporation may be served is the New Jersey Title Guarantee and Trust Company.

3. The objects for which the corporation is formed are: To acquire, deal in, sell and otherwise dispose of ores, minerals and metals; to smelt, reduce, refine, mill and otherwise treat ores, minerals and metals; and to manufacture, acquire, deal in, sell and otherwise dispose of products of ores, minerals and metals.

In aid of or connection with the foregoing, or if deemed profitable or expedient in addition thereto, or in the use, management, improvement or disposition of any property, the corporation shall have also the following objects and powers, as well as all powers conferred by law:

To mine, quarry, dig, cut, reduce, treat, prepare for use, transport and deal in, ores, minerals, metals, wood, coal, stone, peat, marl, clay and raw materials generally and their products direct and incidental;

To purchase, lease and otherwise acquire, improve, develop, let, sell and otherwise dispose of real estate and rights and interests in or in respect to real estate, water or water power, and to develop towns and town sites;

To construct, purchase, lease and otherwise acquire, improve, maintain, operate, let, sell and otherwise dispose of pipe lines, works for producing or furnishing power, water, gas or electricity, tramways, street railways, bridges, boats, ferries, lines of navigation, docks, warehouses, hotels, stores, dwellings and all other works, manufactories, structures and improvements, and to acquire, construct, maintain and operate railroads, telegraph lines and canals not in the State of New Jersey;

To transport goods, merchandise and passengers upon land or water;

To make, produce, buy, handle, use, deal in, sell and otherwise dispose of all kinds of agricultural products, foods, beverages, drugs, furniture, machinery, tools, supplies, goods, wares, merchandise and manufactures;

To acquire, use, give licenses under, and dispose of rights in respect to manufacture, use, business or trade, including inventions, processes, patents, trade-marks and trade names;

To purchase, hold, sell, assign, transfer, mortgage, pledge or otherwise dispose of shares of the capital stock of, or any bonds, securities or evidences of indebtedness created by any other corporation or corporations of New Jersey or any other State.

The corporation may do any of the things hereinbefore enumerated for itself or for account of others; may make and perform contracts for doing any thereof; may carry on any business or operation deemed advantageous, incidental or accessory to any thereof or advantageous or profitable to the corporation; in connection with or

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4.

(a) The total authorized capital stock of this Corporation is 4,700,000 shares, divided into three classes, of which 500,000 shares of the par value of $100 each shall be and be designated preferred stock, and 200,000 shares of the par value of $100 each shall be and be designated second preferred stock, and 4,000,000 shares without nominal or par value shall be and be designated common stock. All or any part of said shares of common stock without nominal or par value may be issued and sold by this corporation from time to time in such manner and for such considerations as from time to time may be fixed by its Board of Directors.

(b) The preferred stock shall be entitled in preference to the second preferred stock and to the common stock to cumulative dividends at the rate of seven per centum yearly, payable quarterly, half-yearly or yearly; that is to say, dividends may be paid upon the second preferred stock and upon the common stock only when the preferred stock shall have received dividends at said rate from the time of the issue thereof. The preferred stock shall also have a preference over the second preferred stock and the common stock in any distribution of the assets of the corporation other than profits until the full par value thereof and seven per centum per annum thereon from the time of issue shall have been paid by dividends or distribution. The preferred stock shall not be entitled to any divi-

dend in excess of said seven per centum per annum, nor to any share in distribution of assets in excess of said par value and the amount then unpaid of such cumulative dividends; but only the second preferred stock and the common stock shall be entitled to any further dividend or to any further share in distribution.

(c) The second preferred stock shall be entitled in preference to the common stock to cumulative dividends at the rate of six per centum yearly, payable quarterly, half-yearly or yearly; that is to say, dividends may be paid upon the common stock only when the second preferred stock shall have received dividends at said rate from the time of the issue thereof. The second preferred stock shall also have a preference over the common stock in any distribution of the assets of the corporation other than profits until the full par value thereof and six per centum per annum thereon from the time of issue shall have been paid by dividends or distribution. The second preferred stock shall not be entitled to any dividend in excess of said six per centum per annum, nor to any share in distribution of assets in excess of said par value and the amount then unpaid of such cumulative dividends; but only the common stock shall be entitled to any further dividend or to any further share in distribution. The second preferred stock shall, provided the Board of Directors so determine at the time of issue thereof, be subject to redemption at not less than par. In the event of such determination, this corporation may, at its option at any time on any quarterly, half-yearly or yearly dividend date, redeem the whole or any part of the second preferred stock at the time outstanding by paying therefor in cash the par value thereof plus accrued dividends thereon to the date fixed for such redemption plus such premium if any amounting to

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not more than $5 per share as the directors at the time of issue of such stock shall have fixed (herein called the "Redemption Price"). If the second preferred stock shall so be subject to redemption, the provisions for redemption herein stated and the redemption price shall be set forth in the certificates of stock issued to represent the shares of said second preferred stock. If the second preferred stock shall so be subject to redemption and if at any time this corporation shall determine to redeem less than the whole of the second preferred stock then outstanding, the particular second preferred stock to be redeemed shall be ascertained in such manner, whether by lot or pro rata, as may be provided in the by-laws of this Company, or, in the absence of such provision in the by-laws, as may be determined from time to time by the Board of Directors. At least thirty and not more than sixty days' notice of every such redemption, specifying the time and place of redemption within the Borough of Manhattan, City and State of New York, shall be given to the holders of record of second preferred stock to be redeemed, by mailing such notice to such holders at their respective addresses as the same shall appear on the stock transfer books of the Company, and also by publishing such notice at least once a week in four consecutive weeks in a daily newspaper of general circulation, printed in the English language and published in the Borough of Manhattan, City and State of New York, the first publication of such notice to be at least thirty and not more than sixty days prior to the date specified therein for such redemption; provided, however, anything herein to the contrary notwithstanding, that every such redemption shall be had in accordance with all applicable provisions of law. From and after the date specified in such notice as the date of redemption, unless the Com-

pany shall fail to provide, at the time and place specified in such notice, sufficient moneys for the payment of the Redemption Price, all dividends on the second preferred stock thereby called for redemption shall cease to accumulate, and all rights of the holders thereof as stockholders of the Company, except the right to receive the Redemption Price, shall cease and terminate. Any second preferred stock so redeemed shall be retired by resolution of the Board of Directors of the Company and shall not be reissued and the authorized amount of second preferred stock shall be deemed to be reduced to the extent of the shares thereof so redeemed and retired. Except as now or hereafter otherwise provided by law, subject to the express provisions of this subdivision (c), the Board of Directors shall have full power and discretion to prescribe and regulate from time to time the procedure to be followed in and all other matters concerning the redemption of second preferred stock. The term "Accrued Dividends" wherever used herein with reference to the second preferred stock shall mean the amount in cash at the rate of six dollars ($6.00) per share per annum from the date of issue thereof to the date in question less the aggregate amount of all cash dividends declared and paid or set apart for payment on such second preferred stock in question.

(d) No holder of stock of any class of this corporation shall have any preferential or other right to subscribe to shares of second preferred stock, or to any new, additional or increased shares of stock of this corporation of any class or to any securities or obligations convertible into shares of stock of this corporation nor any right to subscribe to any thereof, other than such, if any, as the Board of Directors in its discretion may determine; and any

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shares of stock of this corporation or securities or obligations convertible into shares of stock of this corporation which the Board of Directors may determine to offer for subscription to holders of stock, may, as the Board of Directors shall determine, be offered to holders of any class or classes of stock of this corporation, at the time existing, to the exclusion of holders of any or all other classes, at the time existing, at such prices as the Board of Directors in its discretion may fix subject to applicable provisions of law.

(e) Common stock without nominal or par value to the amount of 1,829,940 shares shall be issued in exchange for, and upon the surrender to this corporation for cancellation of, the 609,980 shares of common stock of the par value of $100 per share, heretofore authorized and issued, on the basis of three shares of common stock without nominal or par value for each one share of said common stock of the par value of $100 per share. Such exchange of common stock without nominal or par value for said common stock of the par value of $100 per share shall not have the effect of capitalizing nor of transferring to the stated capital or capital of this corporation any of the surplus of this corporation.

(f) All of the 1,829,940 shares of common stock without nominal or par value given in exchange for common stock of the par value of $100 per share as in this article 4 provided, is fully paid and non-assessable.

(g) Each share of stock of the Company of any class from time to time outstanding shall have voting powers of one vote.

5. The names and post-office addresses of the incorporators and the number of shares subscribed for by each [the aggregate of which, $5,000, is the amount of

capital stock with which this Company will commence business] are as follows:

Names.	Post-Office Addresses.	Number of Shares.
Winthrop E. Dwight...	83 Montgomery Street, Jersey City, New Jersey.	Ten
Thomas Mills Day, Jr..	"	Ten
John J. Treacy.....	"	Ten
Hector W. Thomas	"	Ten
Alexis P. Bartlett	"	Ten

6. The corporation may have offices and conduct business anywhere without, as well as within, the State of New Jersey; and the Directors may hold meetings and may keep the books of the corporation (except the stock and transfer books) out of said State of New Jersey.

7. The corporation may, by action of the Board of Directors, without assent or other action of the stockholders, purchase, acquire, hold, lease, mortgage, pledge, sell and convey such property, real, personal and mixed, without as well as within said State of New Jersey, as the Board of Directors may from time to time determine, and in payment for any property may issue, or cause to be issued, stock of the corporation, or bonds thereof secured by pledge or mortgage, or unsecured.

8. With the written assent, or pursuant to the affirmative vote, in person or by proxy, at any meeting called as provided in the by-laws, of the holders of two-thirds of each class of the stock issued and outstanding, the Board of Directors may sell, convey, assign, transfer or otherwise dispose of, the property, assets, rights and privileges of the corporation, as an entirety, for such consideration and on such terms as they may determine.

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9. Until the number thereof shall be altered the corporation shall have five directors. An increase of the number of directors shall be deemed to create vacancies in the Board to be filled in the manner provided by the by-laws.

10. All corporate powers shall be exercised by the Board of Directors, except as otherwise provided by statute, or by this certificate.

11. The Board of Directors shall have power to make and alter the by-laws.

12. An executive committee of directors may be appointed in the manner, of the number and under the regulations provided in the by-laws, and may be given any or all the powers of the Board of Directors when the same is not in session.

IN WITNESS WHEREOF, we have hereunto set our hands and seals the 4th day of April, A.D. one thousand eight hundred and ninety-nine.

WINTHROP E. DWIGHT [L. S.]
THOMAS MILLS DAY, JR. [L. S.]
JOHN J. TREACY [L. S.]
HECTOR W. THOMAS [L. S.]
ALEXIS P. BARTLETT [L. S.]

STATE OF NEW YORK, }
COUNTY OF NEW YORK, } SS.:

Be it remembered that on this 4th day of April, in the year one thousand eight hundred and ninety-nine, before me, a notary public in and for the State and county aforesaid, personally appeared Winthrop E. Dwight, Thomas Mills Day, Jr., John J. Treacy, Hector W. Thomas and Alexis P. Bartlett who, I am satisfied, are the persons named in and who executed the foregoing certificate, and I having first made known to them the contents thereof, they did thereupon severally acknowledge that they signed, sealed and delivered the same as their voluntary act and deed.

JOHN J. McBRIDE
Notary Public
New York County.

(NOTARIAL SEAL)

4th day of April, in the
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McBride
Notary Public
New York County.

State of New York, }
County of New York. } ss.:

I, William Sohmer, Clerk of the County of New York, and also Clerk of the Supreme Court for the said County, the same being a Court of Record, Do Hereby Certify that John J. McBride, whose name is subscribed to the Certificate of the proof and acknowledgment of the annexed instrument, and thereon written, was, at the time of taking such proof and acknowledgment, a Notary Public in and for said County, duly commissioned and sworn and authorized by the laws of said State to take the acknowledgments and proofs of deeds or conveyances for land, tenements or hereditaments in said State of New York. And further that I am well acquainted with the handwriting of such Notary Public, and verily believe that the signature to said certificate of proof or acknowledgment is genuine.

In testimony whereof I have hereunto set my hand and affixed the seal of the said Court and County, the 4 day of Apl., 1899.

Wm. Sohmer,
Clerk.

{ 10-ct. revenue stamp cancelled } [seal]

[Endorsed:]

"Received in the Hudson Co., N. J., Clerk's office, Apr. 4th, A. D. 1899, and recorded in the Clerk's Record, No. ....., on Page ....."

John G. Fisher, Clerk."

"Filed Apr. 4, 1899.
George Wurts,
Secretary of State."

STATE OF NEW JERSEY

[COAT OF ARMS]

DEPARTMENT OF STATE.

I, JOSEPH F. S. FITZPATRICK, Secretary of State of the State of New Jersey, DO HEREBY CERTIFY that the foregoing is a true copy of Certificate of Incorporation of AMERICAN SMELTING AND REFINING COMPANY, as Amended December 26, 1928, and the endorsements thereon, as the same is taken from and compared with the original filed in my office on the Fourth day of April A. D. 1899, and now remaining on file and of record therein.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal at Trenton, this Twenty-sixth day of December A. D. 1928.

(Signed) JOSEPH F. S. FITZPATRICK
Secretary of State.

[STATE SEAL]

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my Official Seal at
ixth day of December

H F. S. FITZPATRICK
Secretary of State.

Department of State.

I, Joseph F. S. Fitzpatrick, Secretary of State of the State of New Jersey do hereby Certify that the foregoing is a true copy of Certificate of Incorporation of AMERICAN SMELTING AND REFINING COMPANY, as Amended December 26,1928.

and the endorsements thereon, as the same is taken from and compared with the original filed in my office on the Fourth day of April A.D. 1899, and now remaining on file and of record therein

In Testimony Whereof, I have hereunto set my hand and affixed my Official Seal at Trenton, this Fifteenth day of February A.D. 1929.

Joseph F. S. Fitzpatrick
Secretary of State.

1049 0441

Chg. of Name

CERTIFICATE OF AMENDMENT

TO THE

CERTIFICATE OF INCORPORATION

OF

ASARCO INCORPORATED

EFFECTIVE DATE April 23, 1975

* * * * *

To: The Secretary of State
State of New Jersey

Pursuant to the provisions of Section 14A:9-2(4) and Section 14A:9-4(3), Corporations, General, of the New Jersey Statutes, the undersigned corporation executes the following Certificate of Amendment to its Certificate of Incorporation:

1. The name of the corporation is

ASARCO INCORPORATED.

2. The following amendment to the Certificate of Incorporation was approved by the directors and thereafter duly adopted by the shareholders of the corporation on the 2nd day of April, 1975:

RESOLVED, that Article "FIRST" of the Certificate of Incorporation be amended to read as follows:

"FIRST: The name of the corporation is
AMERICAN SMELTING AND REFINING COMPANY."

3. The number of shares entitled to vote upon the amendment was one thousand (1,000).

4. That in lieu of a meeting and vote of the shareholders and in accordance with the provisions of Section 14A:5-6, the amendment was adopted by the shareholders without a meeting pursuant to the written consents of the shareholders and the number of shares represented by such consents is one thousand (1,000) shares.

5. The effective date of this Amendment shall be April 23, 1975.

Dated: April 22, 1975

ASARCO INCORPORATED

By Joseph A. Barbera

Joseph A. Barbera, President

021861

EFFECTIVE DATE
April 23, 1975

ASARCO INCORPORATED

* * * * * * * * * * * * * * * * * *

FILED & RECORDED

APR 22 1975

F. Joseph Carragher
Asst. Secretary of State

CERTIFICATE OF AMENDMENT

TO THE

CERTIFICATE OF INCORPORATION

LICENSE FEE .....

FILING FEE $35.00

CERTIFYING COPY .....

TOTAL $35.00 gs

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Organized under the laws of the
STATE OF NEW JERSEY

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C T CORPORATION SYSTEM
MR. J. L. RIVERA
28 W. STATE STREET
TRENTON, N. J. 08608

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ASARCO-00775

Feb 17 2005 15:31

MRG

FILED
FEB 16 2005
STATE TREASURER

CERTIFICATE OF MERGER

OF

ASARCO INCORPORATED — 1611359000
(A New Jersey Corporation)

AND

ASARCO LLC — 0600227388
(A Delaware Limited Liability Company)

To the Department of the Treasury
State of New Jersey

Pursuant to the provisions of Section 14A:10-14 of the New Jersey Business Corporation Act and Section 42:2B-20 of the New Jersey Limited Liability Company Act, it is hereby certified that:

FIRST: The names of the merging entities are ASARCO Incorporated, which is a business corporation organized under the laws of the State of New Jersey, and ASARCO LLC, which is a limited liability company organized under the laws of the State of Delaware.

SECOND: Annexed hereto and made a part hereof is the Agreement and Plan of Merger for merging ASARCO Incorporated with and into ASARCO LLC as approved by the governing bodies of each of the said entities.

THIRD: The number of shares of ASARCO Incorporated which were entitled to vote at the time of the approval of the Plan of Merger by its shareholders is 1000 shares of common stock, $0.01 par value per share, all of which are of one class.

The sole shareholder entitled to vote of the aforesaid corporation approved the Agreement and Plan of Merger pursuant to its written consent without a meeting of shareholders; and the number of shares represented by such consents is 1000 shares of common stock. The number of shares which were voted against the same is 0. The date of said consents and approval was February 4, 2005.

FOURTH: The applicable provisions of the laws of the jurisdiction of organization of ASARCO LLC relating to the merger of ASARCO Incorporated with and into ASARCO LLC will have been complied with upon compliance with any of the filing and recording requirements thereof.

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thereof.

FIFTH: ASARCO LLC hereby agrees that it may be served with process in the State of New Jersey in any proceeding for the enforcement of any obligation of ASARCO Incorporated or any obligation of ASARCO LLC for which it is previously amenable to suit in the State of New Jersey and in any proceeding for the enforcement of the rights of a dissenting shareholder of ASARCO Incorporated against ASARCO LLC; and ASARCO LLC hereby irrevocably appoints the Department of the Treasury of the State of New Jersey as its agent to accept service of process in any such proceeding and designates the following post office address without the State of New Jersey to which said Department of the Treasury shall mail a copy of the process in such proceeding: 2575 East Camelback Road, Suite 500, Phoenix, Arizona 85016.

ASARCO LLC hereby agrees that it will promptly pay to the dissenting shareholders of ASARCO Incorporated the amount, if any, to which they are entitled under the provisions of the New Jersey Business Corporation Act with respect to the rights of dissenting shareholders.

SIXTH: ASARCO LLC will continue its existence as the surviving limited liability company under its present name pursuant to the provisions of the laws of the jurisdiction of its organization.

Executed on this 17th day of February, 2005.

ASARCO INCORPORATED

By: D. E McAllister

Signer's Name: Douglas E. McAllister
Signer's Capacity: Vice President, General Counsel and Secretary

ASARCO LLC

By: D. E McAllister

Signer's Name: Douglas E. McAllister
Signer's Capacity: Vice President, General Counsel and Secretary

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AGREEMENT AND PLAN OF MERGER

OF

ASARCO INCORPORATED

AND

ASARCO LLC

* * * * *

AGREEMENT AND PLAN OF MERGER, dated this 17th day of February, 2005 (this "Agreement"), by and between ASARCO Incorporated, a New Jersey corporation ("ASARCO NJ"), and ASARCO LLC, a Delaware limited liability company ("ASARCO LLC"). ASARCO NJ and the ASARCO LLC are sometimes hereinafter referred to together as the "Constituents".

WITNESSETH:

WHEREAS, the Board of Directors of ASARCO NJ and the Board of Directors of ASARCO LLC desire that ASARCO NJ merge with and into ASARCO LLC (the "Merger") pursuant to the terms and conditions of this Agreement and in accordance with Section 14A:10-14 and Section 14A:10-4.1 of the New Jersey Business Corporation Law (the "NJBCL") and Section 18-209 of the Delaware Limited Liability Company Act (the "DLLCA"), and have adopted and approved this Agreement in accordance with Section 14A:10-14 of the NJBCL and Section 18-209 of the DLLCA;

WHEREAS, as of the date hereof, 1,000 shares of Common Stock, par value $0.01 per share, of ASARCO NJ (the "Common Stock") were issued and outstanding, all of which shares voted as a class with respect to the Merger;

WHEREAS, as of the date hereof, ASARCO Incorporated, a Delaware corporation ("ASARCO DE"), is the sole member of ASARCO LLC;

WHEREAS, ASARCO NJ intends to submit to its sole shareholder this Agreement for its approval in accordance with Section 14A:10-3 of the NJBCL and ASARCO LLC intends to submit to its sole member this Agreement for approval in accordance with Section 18-209 of the DLLCA;

NOW, THEREFORE, the Constituents, in consideration of the mutual covenants, agreements and provisions hereinafter contained, do hereby prescribe the terms and conditions of the Merger and mode of carrying the same into effect as follows:

ARTICLE I
DEFINITIONS

In addition to the words defined elsewhere in this Agreement, the following words have the following respective meanings, and such definitions shall be equally applicable to both the singular and plural forms of any of the words herein defined:

"ASARCO LLC Limited Liability Company Agreement" means the Limited Liability Company Agreement of ASARCO LLC as in effect on the date hereof.

"ASARCO LLC Board of Directors and Officers" means the persons designated by the ASARCO LLC sole member or the Board of Directors, as the case may be, to manage ASARCO LLC as provided in the ASARCO LLC Limited Liability Company Agreement.

"Person" means an individual, corporation, joint venture, partnership, limited liability company, association, trust, trustee, unincorporated entity, organization or government or any department or agency thereof.

ARTICLE II
MERGER

Section 2.1 Effect of the Merger. Subject to the terms of this Agreement, and as more fully set forth and supplemented by other provisions herein, upon the Effective Date (as defined below) and pursuant to the Merger:

(a) ASARCO NJ will merge with and into ASARCO LLC in accordance with the NJBCL and the DLLCA. On the Effective Date, the separate existence of ASARCO NJ shall cease and ASARCO LLC shall continue as the surviving Person (the "Surviving LLC").

(b) Each share of Common Stock shall be cancelled and retired and shall cease to exist and no consideration shall be delivered in exchange therefor.

(c) ASARCO DE shall be the sole member of the Surviving LLC.

(d) The Surviving LLC shall thereupon and thereafter possess all the rights, privileges, immunities, powers and franchises, of a public as well as of a private nature, of each of the Constituents, and all property, real, personal and mixed, all debts due on whatever account, including subscriptions to ownership interests and all other chooses in action, and all and every other interest of, or belonging to, each of the Constituents shall be taken and deemed to be transferred to and vested in the Surviving LLC without further act or deed; and the title to all real estate, or any interest therein, vested in either of the Constituents shall not revert or be in any way impaired by reason of the Merger.

(e) The Surviving LLC shall be responsible and liable for all the liabilities and obligations of each of the Constituents, and any claim existing or action or proceeding pending by or against either of the Constituents may be prosecuted to judgment as if the Merger had not taken place, or the Surviving LLC may be substituted in its place, and neither the rights of creditors nor any liens upon the property of either of the Constituents shall be impaired by the Merger.

(f) The respective assets of ASARCO NJ and ASARCO LLC shall be taken up or continued on the books of the Surviving LLC in the amounts prescribed by United States generally accepted accounting principles.

(g) All corporate acts, plans, policies, agreements, arrangements, approvals and authorizations of the Constituents or any of their respective shareholder members, officers or directors which were valid and effective immediately prior to the Effective Date shall be taken for all purposes as the acts, plans, policies, agreements, arrangements, approvals and authorizations of the Surviving LLC and to the fullest extent permitted by applicable law, shall be as effective and binding thereon as the same were with respect to the Constituents.

Section 2.2 Articles of Organization and Operating Agreement. (a) The Certificate of Formation of ASARCO LLC shall be and constitute the Certificate of Formation of the Surviving LLC until the same shall be altered, amended or changed in accordance with its respective terms and applicable law.

(b) The ASARCO LLC Limited Liability Company Agreement shall be and constitute the Limited Liability Company Agreement of the Surviving LLC until the same shall be altered, amended or changed in accordance with its respective terms and applicable law.

Section 2.3 Board of Directors and Officers. The ASARCO LLC Board of Directors and Officers prior to the Effective Date shall serve as the Board of Directors and Officers of the Surviving LLC on and after the Effective Date, until new directors have been duly elected and qualified and the new officers appointed pursuant to the ASARCO LLC Limited Liability Company Agreement, or until their earlier resignation, removal or death.

Section 2.4 Employees and Agents. The employees and agents of ASARCO NJ shall become the employees and agents of the Surviving LLC and shall continue to be entitled to the same rights and benefits which they enjoyed as employees and agents of ASARCO NJ and each employee benefit plan of ASARCO NJ is hereby amended accordingly. The Merger shall not be considered to constitute a termination of employment of any employees of ASARCO NJ.

Section 2.5 Shareholder and Member Approval. Immediately following execution of this Agreement, each of ASARCO NJ and ASARCO LLC shall submit this Agreement to its sole shareholder or sole member, as applicable, for approval.

Section 2.6 The Effective Time. Immediately following the approval of the sole shareholder of ASARCO NJ and the sole member of ASARCO LLC, a certificate of merger shall be duly prepared in accordance with Section 14A:10-4.1 of the NJBCL and executed by the Constituents and thereafter delivered to the State Treasurer of the State of New Jersey for filing

as provided in Section 14A:10-4.1 of the NJBCL (the "NJ Certificate of Merger") and a certificate of merger shall be duly prepared in accordance with Section 18-209 of the DLLCA and executed by the Surviving LLC and thereafter delivered to the Secretary of State of the State of Delaware for filing as provided in Section 18-209 of the DLLCA (the "Delaware Certificate of Merger"). The Merger shall become effective upon the filing of the NJ Certificate of Merger with the of State Treasurer of the State of New Jersey and the Delaware Certificate of Merger with the Secretary of State of the State of Delaware (the "Effective Date").

ARTICLE III
COVENANTS

Section 3.1 Further Actions. Each of the Constituents agrees to use its reasonable efforts to take, or to cause to be taken, all actions and to do, or to cause to be done, all things necessary, proper or advisable to consummate and to make effective the transactions contemplated by this Agreement.

ARTICLE IV
CONDITIONS TO MERGER; ADDITIONAL AGREEMENTS

Section 4.1 Conditions to Effectiveness. The obligation of both parties hereto to consummate the transactions contemplated by this Agreement shall be subject to this Agreement having been approved by the sole shareholder of ASARCO NJ, and the sole member of ASARCO LLC, as required by applicable law.

ARTICLE V
AMENDMENTS, TERMINATION AND WAIVERS

Section 5.1 Amendment of Agreement. This Agreement may be amended, supplemented or modified by action taken by or on behalf of the respective officers or boards of directors, as applicable, of each party hereto at any time prior to the Effective Date, whether prior to or after the required shareholder and member approvals shall have been obtained, but after such adoption and approval only to the extent permitted by applicable law. No such amendment, supplement or modification shall be effective unless set forth in a written instrument duly executed by or on behalf of each party hereto.

Section 5.2 Termination of Agreement. This Agreement may be terminated at any time prior to the Effective Date by written agreement of the parties hereto duly authorized by action taken by or on behalf of the officers or boards of directors, as applicable, of each party hereto, notwithstanding prior shareholder and member approval. No Person shall have any rights or claims against any Constituents or its officers or boards of directors, as applicable, based on the termination of this Agreement.

ARTICLE VI
ADDITIONAL PROVISIONS

Section 6.1 Severability. To the extent possible, each provision of this Agreement shall be interpreted in such a manner as to be valid, legal and enforceable. Any determination that any provision of this Agreement or any application thereof is invalid, illegal or unenforceable in any respect or in any instance shall be effective only to the extent of such invalidity, illegality or unenforceability and shall not affect the validity, legality or enforceability of any other provision of this Agreement.

Section 6.2 Headings. Article and Section headings contained in this Agreement are inserted for convenience and reference only, and shall not be considered in construing or interpreting any of the provisions hereof.

Section 6.3 Entire Agreement. This Agreement supersedes any and all oral or written agreements heretofore made relating to the subject matter hereof and constitutes the entire Agreement of the parties relating to the subject matter hereof.

Section 6.4 Counterparts. This Agreement may be executed simultaneously in two or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument.

Section 6.5 Governing Law. This Agreement shall be governed by and construed in accordance with the laws of the State of Delaware and to the extent applicable, the laws of the State of New Jersey.

Section 6.6. Merger Agreement. A copy of this Agreement is on file at the principal place of business of the Surviving LLC, c/o 2575 East Camelback Road, Suite 500, Phoenix, Arizona 85016 and will be furnished by the Surviving LLC, on request and without cost, to any shareholder or member of any Constituent.

IN WITNESS WHEREOF, each of the Constituents, pursuant to authority duly given by resolutions adopted by its shareholder and member, as applicable, has caused this Agreement to be executed in its name by its duly authorized representative as of the day and year aforesaid.

ASARCO INCORPORATED

By: D. E. McAllister
Name: Douglas E. McAllister
Title: Vice President, General Counsel and Secretary

ASARCO LLC

By: D. E. McAllister
Name: Douglas E. McAllister
Title: Vice President, General Counsel and Secretary

FILED
FEB 15 2005
STATE TREASURER

Mail to: PO Box 308 Trenton, NJ 08625

STATE OF NEW JERSEY
DIVISION OF REVENUE

225 West State St, 3rd Floor Trenton, NJ 08608-1002

PUBLIC RECORDS FILING FOR NEW BUSINESS ENTITY

Fill out all information below INCLUDING INFORMATION FOR ITEM 11, and sign in the space provided. Please note that once filed, this form constitutes your original certificate of incorporation/formation/registration/authority, and the information contained in the filed form is considered public. Refer to the instructions for delivery/return options, filing fees and field-by-field requirements. Remember to remit the appropriate fee amount. Use attachments if more space is required for any field, or if you wish to add articles for the public record.

1. Business Name:
ASARCO LLC

2. Type of Business Entity: F L C
(See Instructions for Codes, Page 21, Item 2)

3. Business Purpose: To engage in a mining business
(See Instructions, Page 22, Item 3)

4. Stock (Domestic Corporations Only - Total Shares):

5. Duration (If Indefinite or Perpetual, Leave Blank):

6. State of Formation/Incorporation (Foreign Entities Only):
Delaware

7. Date of Formation/Incorporation (Foreign Entities Only):
February 4, 2005

8. Contact Information:
Registered Agent Name: National Registered Agents, Inc. of NJ

Registered Office
(Must be a New Jersey address with street address)
Street 51 Everett Drive, Suite 107B, P. O. Box 927
City West Windsor, NJ Zip 08550-0927

Main Business or Principal Business Address
Street 2575 Camelback Road, Suite 500
City Phoenix State AZ Zip 85016

9. Management (Domestic Corporations and Limited Partnerships Only)
- For-Profit and Professional Corporations list initial Board of Directors, minimum of 1;
- Domestic Non-Profit list Board of Trustees, minimum of 3;
- Limited Partnerships list all General Partners.

Name	Street Address	City	State	Zip

The signature below certify that the business entity has complied with all applicable filing requirements pursuant to the laws of the State of New Jersey.

10. Incorporators (Domestic Corporations Only, minimum of 1)

Name	Street Address	City	State	Zip

** Signature(s) for the Public Record (See instructions for information on Signature Requirements)

Signature	Name	Title	Date
D.E. McAllister	Douglas E. McAllister	General Counsel, VP and Secretary	2/14/05

1515514
2869019
2869020

0600227388

Delaware

The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "ASARCO LLC" IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE ELEVENTH DAY OF FEBRUARY, A.D. 2005.

AND I DO HEREBY FURTHER CERTIFY THAT THE ANNUAL TAXES HAVE NOT BEEN ASSESSED TO DATE.

AND I DO HEREBY FURTHER CERTIFY THAT THE SAID "ASARCO LLC" WAS FORMED ON THE FOURTH DAY OF FEBRUARY, A.D. 2005.

Harriet Smith Windsor

Harriet Smith Windsor, Secretary of State

3922197 8300

050114988

AUTHENTICATION: 3679930

DATE: 02-11-05

ASARCO Incorporated
(a New Jersey Corporation)
2575 East Camelback Road
Suite 500
Phoenix, AZ 85016

CONSENT TO USE OF NAME

ASARCO LLC

ASARCO Incorporated, a corporation organized under the laws of the State of New Jersey, hereby consents to qualification of ASARCO LLC in the State of New Jersey.

IN WITNESS WHEREOF, ASARCO Incorporated has cause this consent to be executed by its Vice President, General Counsel and Secretary on the 14th day of February, 2005

ASARCO INCORPORATED

D. E. McAllister

Name: Douglas E. McAllister
Title: Vice President, General Counsel
And Secretary

NY1:#3389769v2

The Official Website of San Juan County Colorado (/)

San Juan County Colorado has a total area of 388.29 square miles. It has the highest mean elevation of any county in the United States, at 11,240 feet. Silverton, the county seat and only city in the County, sits at 9,318 feet.

San Juan County Population: 699 Town of Silverton Population: 637

2016 Election Results for San Juan County, CO **(/elections.html)**

Upcoming Foreclosure Sale

March 28, 2017: Notice 16-004 (/uploads/3/4/0/4/34042608/bent_forclosure.pdf): Glenn & Maisel, 1114 Empire St, Silverton, CO 81433

Public Alert Text Message System

text your ZIP CODE to 888777 for mobile alerts
https://local.nixle.com/register/ (https://local.nixle.com/register/)

2016 Mill Levy Breakdown

Mill Levy for Town of Silverton
10.560 Town of Silverton
19.888 San Juan County
13.994 School District #1
00.395 Southwest Water Conservation District
44.837

Mill Levy for South County
19.888 San Juan County
13.994 School Dist. #1
00.395 Southwest Water Con. District
05.700 Durango Fire Protection District
39.977

Mill Levy for remainder of San Juan County
19.888 San Juan County
13.994 School District #1
00.395 Southwest Water Conservation District
34.277

Calculating Property Tax Rates

Colorado's Assessment Rates = 7.96% Residential; 29% Non-Residential

Assessment Rate x Mill Levy/1000 = Effective Property Tax Rate

Actual Value x Effective Property Tax Rate = Taxes Due

2016 Effective Property Tax Rates (taxes dues in 2017)

Town of Silverton (District 112)
Residential: 0.357%
Non-Residential: 1.30%

South County (District 103)
Residential: 0.318%
Non-Residential: 1.159%

Remainder of County (District 101)
Residential: 0.273%
Non-Residential: 0.994%

San Juan County Courthouse

1557 Greene St
Silverton, CO 81433
Phone: 970-387-8040
Fax: 970-387-8043

Pay Property Tax (https://secure.pueblo.org/cgi-bin/webatrbroker.cgi/propertytaxpayinfosaj.p)

Clerk & Recorder Records (/document-search.html)

Search Property Records (http://www.co.pueblo.co.us/cgi-bin/webatrallbroker.wsc/ackatrsaj.p)

Recent Property Sales (/assessor.html) (updated March 2, 2017)
2017 County Budget (/uploads/3/4/0/4/34042608/0310_001.pdf) (approved December 15, 2016)
2016 Abstract of Assessment Brochure (/uploads/3/4/0/4/34042608/trifold_2016_abstract.pdf) (Jan 2017)
2015 County Audit (/uploads/3/4/0/4/34042608/sjc_audit_2015.pdf) (most recent available)

Home page photo courtesy of Ray Dileo

City/Town: SILVERTON Parcel Number: 48290150010017 Tax Status: Active Tax District: 101 07/27/20

Name: BANKSTON SAMANTHA E,
Address: SILVERTON, CO 81433 **Mailing Address:** 1654 MASSACHUSETTS AVE APT 28 CAMBRIDGE, MA 02138

Grantee	Grantor	Sale Date	Sale Amount	Type	Reception	Sale Comments (Code)
BANKSTON SAMANTHA E	BALDWIN RONALD & NANCY	01/20/17	19800	WD	150934	PATENTED MNG CLAIM
BALDWIN RONALD & NANCY	ASARCO INC	03/04/04	10460	SW	143298	VACANT LAND

No Photo available!

Legal Description:
ASPEN - 199 CHLORIDE - 411 MAMMOTH - 449 MC GREGOR - 423 SUSQUEHANNA - 447

Distribution of tax dollars by taxing entity

Tax Entity Name	Levy	Tax Amount	% of Tot

Land Area	Land Class	Land Value
1.8 Acres	Non-Producing Pat M	2700
1.68 Acres	Non-Producing Pat M	2520
1.72 Acres	Non-Producing Pat M	2580
8.6 Acres	Non-Producing Pat M	13200
.77 Acres	Non-Producing Pat M	1155

********Historical values of land**********

Year	Actual Value	Assessed Value
2020	22155	6425
2019	22155	6425
2018	21140	6131
2017	21140	6131
2016	14232	4127
2015	14232	4127
2014	10199	2957

Treasurer Tax Information

Year	Type	Paid Date	Amount	Balance
2019	MC DUE			**217.02**
2019	Payment	02/20/20	108.51	108.51
2019	Payment	06/03/20	108.51	0

Additional Treasurer Fees

Special Improvements:	no
Property in Tax Sale:	no
Delinquent Payments:	no
Tax Sale Certificates Outstanding:	no
Advertising Charges due:	no

FOR the fees due on any of the above items, please call the Treasurer at 9703875488

City/Town: SILVERTON Parcel Number: 48290150010001 Tax Status: Exempt Tax District: 101 07/27/20

Name: UNITED STATES OF AMERICA, BUREAU OF LAND MANAGEMENT,
Address: SILVERTON, CO 81433 **Mailing Address:** 2850 YOUNGFIELD ST LAKEWOOD, CO 80215

Grantee	Grantor	Sale Date	Sale Amount	Type	Reception	Sale Comments (Code)
UNITED STATES OF AMERICA	ASARCO INC	04/08/04	69700	WD	143554	SEE COMMENT/FIELD CHEC

No Photo available!

Legal Description:
ILLINOIS - 14019 LEGAL TENDER - 753 PROFESSOR WINKLER M S 9842B WASHINGTON - 15112. FORMERLY PART OF PARCEL # 48290230010001

Land Area	Land Class	Land Value
9.07 Acres	Federal Pat Mining	44700
9.47 Acres	Federal Pat Mining	13700
5 Acres	Federal Pat Mining	24600
8.3 Acres	Federal Pat Mining	40900

********Historical values of land**********

Year	Actual Value	Assessed Value
2020	123900	0
2019	123900	0
2018	151780	0
2017	151780	0
2016	272890	0
2015	272890	0
2014	76416	0

Treasurer Tax Information

Year	Type	Paid Date	Amount	Balance

Additional Treasurer Fees

Special Improvements:	no
Property in Tax Sale:	no
Delinquent Payments:	no
Tax Sale Certificates Outstanding:	no
Advertising Charges due:	no

FOR the fees due on any of the above items, please call the Treasurer at 9703875488

City/Town: SILVERTON Parcel Number: 48290100010010 Tax Status: Exempt Tax District: 101 07/27/20

Name: UNITED STATES OF AMERICA, BUREAU OF LAND MANAGEMENT,
Address: SILVERTON, CO 81433 **Mailing Address:** 2850 YOUNGFIELD ST LAKEWOOD, CO 80215

Grantee	Grantor	Sale Date	Sale Amount	Type	Reception	Sale Comments (Code)
UNITED STATES OF AMERICA	ASARCO INC	04/08/04	69700	WD	143554	SEE COMMENT/FIELD CHEC

No Photo available!

Legal Description:
SILVER STAR - 681

Land Area	Land Class	Land Value
10.33 Acres	Federal Pat Mining	57500

********Historical values of land**********

Year	Actual Value	Assessed Value
2020	57500	0
2019	57500	0
2018	71950	0
2017	71950	0
2016	41800	0
2015	41800	0
2014	49584	0

Treasurer Tax Information

Year	Type	Paid Date	Amount	Balance

Additional Treasurer Fees

Special Improvements:	no
Property in Tax Sale:	no
Delinquent Payments:	no
Tax Sale Certificates Outstanding:	no
Advertising Charges due:	no

FOR the fees due on any of the above items, please call the Treasurer at 9703875488

City/Town: SILVERTON Parcel Number: 48290090010035 Tax Status: Active Tax District: 101 07/27/20

Name: DUGI DAN DEFINED BENEFIT TRUST,
Address: SILVERTON, CO 81433 **Mailing Address:** 146 POST OAK WAY CUERO, TX 77954

Grantee	Grantor	Sale Date	Sale Amount	Type	Reception	Sale Comments (Code)
DAN DUGI DEFINED BENEFIT TRUST	ASARCO	01/30/04	0	SW	143246	SEE COMMENT/FIELD CHEC
DUGI DAN BENEFIT TRUST PLAN	ASARCO INC	01/30/04	80800	SW	143246	MULTIPLE SCHEDULES

No Photo available!

Legal Description:
PIEDMONT - 15112 RIVER - 15112

Land Area	Land Class	Land Value
8.7 Acres	Non-Producing Pat M	48400
7.12 Acres	Non-Producing Pat M	13528

********Historical values of land**********

Year	Actual Value	Assessed Value
2020	61928	17959
2019	61928	17959
2018	110200	31958
2017	110200	31958
2016	107152	31074
2015	107152	31074
2014	91123	26425

Treasurer Tax Information

Year	Type	Paid Date	Amount	Balance
2019	MC DUE			**606.62**
2019	Payment	02/14/20	606.62	0

Distribution of tax dollars by taxing entity

Tax Entity Name	Levy	Tax Amount	% of Tot

Additional Treasurer Fees

Special Improvements:	no
Property in Tax Sale:	no
Delinquent Payments:	no
Tax Sale Certificates Outstanding:	no
Advertising Charges due:	no

FOR the fees due on any of the above items, please call the Treasurer at 9703875488

City/Town: SILVERTON Parcel Number: 48290100010004 Tax Status: Active Tax District: 101 07/27/20

Name: ASARCO MULTI-STATE CUST TRUST,
Address: SILVERTON, CO 81433 **Mailing Address:** 35 E WACKER DR CHICAGO, IL 60601

Grantee	Grantor	Sale Date	Sale Amount	Type	Reception	Sale Comments (Code)
ASARCO MULTI-STATE CUST TRUST	ASARCO LLC	12/09/09	0	QC	147213	RELATED PARTIES

No Photo available!

Legal Description:
MARCIA L M S - 8801B - ROCHESTER M S - 8592B -
SAN JUAN - 15112

Distribution of tax dollars by taxing entity

Tax Entity Name	Levy	Tax Amount	% of Tot

Land Area	Land Class	Land Value
5 Acres	Non-Producing Pat M	27800
4.94 Acres	Non-Producing Pat M	27500
10.33 Acres	Non-Producing Pat M	23700

********Historical values of land**********

Year	Actual Value	Assessed Value
2020	79000	22910
2019	79000	22910
2018	98880	28676
2017	98880	28676
2016	154052	44675
2015	154052	44675
2014	117130	33967

Treasurer Tax Information

Year	Type	Paid Date	Amount	Balance
2019	MC DUE			**773.86**
2019	Payment	02/21/20	773.86	0

Additional Treasurer Fees

Special Improvements:	no
Property in Tax Sale:	no
Delinquent Payments:	no
Tax Sale Certificates Outstanding:	no
Advertising Charges due:	no

FOR the fees due on any of the above items, please call the Treasurer at 9703875488

City/Town: SILVERTON Parcel Number: 48290100010044 Tax Status: Active Tax District: 101 07/27/20

Name: COX GARY DEAN,
Address: SILVERTON, CO 81433 **Mailing Address:** 95 CLOVER LN PAGOSA SPRINGS, CO 81147

Grantee	Grantor	Sale Date	Sale Amount	Type	Reception	Sale Comments (Code)
SAME	COX GARY DEAN	06/19/14	0	BD	149578	RELATED PARTIES
COX GARY DEAN	COX GARY DEAN AND KAREN M	04/11/14	0	QCD	149483	RELATED PARTIES
COX GARY DEAN AND KAREN M	LEISLE STEVEN R & LEISLE DAN	06/22/04	72000	WD	143521	IMPROVED RES W/LAND
LEISLE/LEISLE	ASARCO	01/30/04	0	SW	143302	SEE COMMENT/FIELD CHEC
LEISLE STEVEN R & LEISLE DANIE	ASARCO INC	01/30/04	27900	SW	143242	IMPROVED RES W/LAND

No Photo available!

Legal Description:
NEW YORK - 15112 - 10.33 AC.

**********Residential Inventory Card number 1 of 1.**********

*Average Quality 2 STORY
Construction: Frame Rooms: 4 Baths: 1 Beds: 2

Characteristic	Type	9	10	11	12	13	14	Tot SqFt
First Floor Area	Frame				X			528
Above First Floor	Frame				X			481
Half Story Area								
Unfinished Bsmnt								
Finished Basement								
Enclosed Porch					X			80

Age and Condition Adjustments
Year Blt: 2008 Year Remodel: 0 %Remodel: 0%
Adjusted year built: 0....Adjusted Age: 0
Economic adjustment: 0% Functional adjustment: 0%
Age Adjustment: 0% Design Adjustment: 0%
Exterior Adjustment: 0% Interior Adjustment: 0%
Fireplace Adj: 0% Yard Adjustment: 0%

Building Permit Information

Permit Date	Permit#	Permit Type	%done
06/01/11	2154	OTHER	0
06/19/08	1	SINGLE FAM	0

Improvement Construction type and Wall and Appliance Inventory

Description	#	10	11	12	13	14	14	13	12	11	10	#	Description
Base Complement	1			X					X			0	Concrete Foundatio
									X			0	Wood or Shingles
									X			0	Large Windows
									X			0	Subfloor
									X				Forced Air
									X				Gable Roof
									X				Pro-Panel

Distribution of tax dollars by taxing entity

Tax Entity Name	Levy	Tax Amount	% of Tot
SAN JUAN COUNTY	19.729	313.02	58%
SOUTHWEST WATER CONS	.403	6.39	1%
SCHOOL DISTRICT #1	13.646	216.51	40%

Land Area	Land Class	Land Value
10.33 Acres	Residential Mining	91000

Imp Classification	Imp Value
Residence on Pat Mining Claim	130900

Historical values of land and improvement

Year	Actual Value	Assessed Value
2020	221900	15866
2019	221900	15866
2018	207230	14920
2017	207230	14920
2016	202400	16111
2015	202400	16111
2014	142366	11333

Treasurer Tax Information

Year	Type	Paid Date	Amount	Balance
2019	MC DUE			**535.92**
2019	Payment	02/03/20	535.92	0

Additional Treasurer Fees

Special Improvements:	no
Property in Tax Sale:	no
Delinquent Payments:	no
Tax Sale Certificates Outstanding:	no
Advertising Charges due:	no

FOR the fees due on any of the above items, please call the Treasurer at 9703875488

City/Town: SILVERTON Parcel Number: 48290100010049 Tax Status: Active Tax District: 101 08/06/20

Name: BALDWIN RONALD H & NANCY G,
Address: SILVERTON, CO 81433 **Mailing Address:** 4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032

Grantee	Grantor	Sale Date	Sale Amount	Type	Reception	Sale Comments (Code)
BALDWIN RONALD H & NANCY G	ASARCO INC	06/15/04	5900	SW	143520	N/A

No Photo available!

Legal Description:
LA BOCA - 19479

Land Area	Land Class	Land Value
10.331 Acres	Non-Producing Pat M	28900

********Historical values of land**********

Year	Actual Value	Assessed Value
2020	28900	8381
2019	28900	8381
2018	36200	10498
2017	36200	10498
2016	20465	5935
2015	20465	5935
2014	20083	5824

Treasurer Tax Information

Year	Type	Paid Date	Amount	Balance
2019	MC DUE			**283.1**
2019	Payment	04/14/20	283.1	0

Distribution of tax dollars by taxing entity

Tax Entity Name	Levy	Tax Amount	% of Tot

Additional Treasurer Fees

Special Improvements:	no
Property in Tax Sale:	no
Delinquent Payments:	no
Tax Sale Certificates Outstanding:	no
Advertising Charges due:	no

FOR the fees due on any of the above items, please call the Treasurer at 9703875488

City/Town: SILVERTON Parcel Number: 48290150010014 Tax Status: Active Tax District: 101 08/06/20

Name: ANDREATTA SHAWN T AND CORI J,
Address: SILVERTON, CO 81433 **Mailing Address:** 420 ALPINE DR DURANGO, CO 81301

Grantee	Grantor	Sale Date	Sale Amount	Type	Reception	Sale Comments (Code)
ANDREATTA SHAWN T & CORI J	ASARCO INC	02/09/04	5500	SW	143240	N/A
ANDREATTA SHWAN T & CORI J	ASARCO	02/09/04	0	SW	143301	SEE COMMENT/FIELD CHEC

No Photo available!

Legal Description:
HERMOSA - 19974

Land Area	Land Class	Land Value
9.286 Acres	Non-Producing Pat M	17643

********Historical values of land**********

Year	Actual Value	Assessed Value
2020	17643	5116
2019	17643	5116
2018	26642	7726
2017	26642	7726
2016	34520	10011
2015	34520	10011
2014	28972	8402

Treasurer Tax Information

Year	Type	Paid Date	Amount	Balance
2019	MC DUE			**172.82**
2019	Payment	04/24/20	172.82	0

Additional Treasurer Fees

Special Improvements:	no
Property in Tax Sale:	no
Delinquent Payments:	no
Tax Sale Certificates Outstanding:	no
Advertising Charges due:	no

FOR the fees due on any of the above items, please call the Treasurer at 9703875488

Distribution of tax dollars by taxing entity

Tax Entity Name	Levy	Tax Amount	% of Tot

1261223

RECLAMATION FEASIBILITY REPORT

ANIMAS RIVER BELOW EUREKA

Jim Herron, Bruce Stover and Paul Krabacher

Colorado Division of Minerals and Geology

November, 2000

RECLAMATION FEASIBILITY REPORT

ANIMAS RIVER BELOW EUREKA

Jim Herron, Bruce Stover and Paul Krabacher

Colorado Division of Minerals and Geology

Funded through Clean Water Act – 319 Grants

Special thanks to the Animas River Stakeholders

November 2000

TABLE OF CONTENTS

	Page
Introduction	1
General Site Description	1
Location	1
Geology	1
Bedrock Stratigraphy	3
Surficial Geology	6
Structural Geology	6
Hydrothermal Alteration	8
Baseline Data Collection	9
Water Quality Sampling	9
Mine Waste Sampling	17
Watershed Chemistry	24
Animas In-stream Zinc Loading	24
Animas In-stream Cadmium Loading	25
Animas In-stream Copper Loading	25
Reclamation Options	25
Surface Hydrologic Controls	26
Passive Treatment	27
Subsurface Hydrologic Controls	29
Mine Site Characterization	30
Eureka Gulch	30
Location	31
Eureka Gulch Copper Loading	30
Eureka Gulch Zinc Loading	33
Eureka Gulch Cadmium Loading	36
Geologic Setting	36
Eureka Gulch Site Descriptions	36
Sunnyside Mine	37
Clipper Mine	39
Ben Franklin Prospect	41
Ben Franklin Mine	44
Bavarian Mine	46
South Fork Mines	49
Moonbeam Mine	50
Minnie Gulch	53
Location	53
Minnie Gulch Copper Loading	53
Minnie Gulch Zinc Loading	53
Minnie Gulch Cadmium Loading	58
Geologic Setting	58
Surficial Geology	58
Geologic Hazards	58
Minnie Gulch Site Descriptions	58
Caledonia Mine	60
Esmerelda Mine	60
Unknown Mine DM-72	60
Midway Tunnel	60
Kitti Mack Mine	61

SDMS-1261223
Page 3 of 237

Maggie Gulch 62
Location 62
Maggie Gulch Copper Loading 62
Maggie Gulch Zinc Loading 62
Maggie Gulch Cadmium Loading 63
Geologic Setting 63
Surficial Geology 63
Maggie Gulch Site Descriptions 63
Queen of Maggie Mine 63
Iron Mask Mine and Mill 65
Little Maud Mine 65
Cunningham Gulch 65
Location 65
Cunningham Gulch Copper Loading 65
Cunningham Gulch Zinc Loading 66
Cunningham Gulch Cadmium Loading 66
Geologic Setting 66
Surficial Geology 67
Cunningham Gulch Gulch Site Descriptions 68
Bradley Tunnel 68
Highland Mary Mill Tailings 68
Innis Tunnel 72
Shenandoah-Dives Mine 72
Green Mountain Mine 72
Pride of the West Mine 73
Emma Mine 76
Smuggler Mine 77
Hidden Treasure Mine 77
Old Hundred Mine 77
Unknown Prospect DM-50 78
Oyama Tunnel 78
Gary Owen Mine 78
Antiperiodic Mine 80
Buffalo Boy Mine 80
Buffalo Boy Mill Tailings 82
Arrastra Gulch 83
Location 83
Arrastra Gulch Copper Loading 83
Arrastra Gulch Zinc Loading 86
Arrastra Gulch Cadmium Loading 86
Geologic Setting 89
Surficial Geology 91
Arrastra Gulch Site Descriptions 91
Gold Lake Mill Tailings 92
King Solomon Mine 92
Black Prince Mine 92
Ezra R Mine 94
Jess Mine 94
Argentine Tunnel 94
Mill Tailings Site #40 94
Royal Tiger Mine 95

Iowa Mine 98
Silver Lake Mine 104
Unity Tunnel 108
Animas River Below Eureka 112
Location 112
Animas River Copper 112
Animas River Zinc 112
Geologic Setting 114
Surficial Geology 115
Animas River Site Descriptions 116
Progressive Mine 116
Silver Star Mine 116
Joseph Neff Mine 117
Valley Forge Mine 117
Little Casino Mine 117
Blair Mountain Tunnel 118
Last Chance Mine 118
Idaho Mine 118
Champion Mine 118
Eureka Mill Tailings 119
Mill Tailings Near Minnie Gulch 121
Kitti Mack Mill Tailings 122
Auburn Tunnel 122
Unknown Mine DM-37 124
Unknown Mine DM-38 125
Hamlet Mine 126
Howardsville Mill Tailings 128
Little Nation Mine 129
Mill Tailings Site #20 131
Mill Tailings Site #39 132
Mill Tailings Across from Mayflower Mill 133
Mill Tailings Near Mouth of Blair Gulch 133
Aspen Mine 134
Mighty Monarch Mine 137
Springs Near Lackawanna Bridge 139
Recommendations for Further Investigations 140
Analysis of Results 141
Conclusions 143
References 147

APPENDICES

1. September 1998 Low-flow Data
2. June/July 1999 High-flow Data
3. Mine Waste Sampling Data

LIST OF FIGURES

		Page
1.	Topographic Map of the Lower Animas River Study Area below Eureka	2
2.	Structural Geologic Map of the Silverton Caldera	7
3.	Eureka Gulch Water Quality Sampling Sites	11
4.	Howardsville Area Water Quality Sampling Sites	12
5.	Howardsville to Silverton Water Quality Sampling Sites	13
6.	Eureka Gulch Waste Rock Sampling Sites	18
7.	Howardsville Area Waste Rock Sampling Sites	19
8.	Howardsville to Silverton Waste Rock Sampling Sites	20
9.	Eureka Gulch Waste Rock Leachate Results	21
10.	Howardsville Area Waste Rock Leachate Results	22
11.	Howardsville to Silverton Waste Rock Leachate Results	23
12.	Eureka Gulch Low-Flow Cu, Fe, & Zn Concentrations	31
13.	Eureka Gulch Low-Flow Cu, Fe, & Zn Loading	32
14.	Eureka Gulch High-Flow Cu, Fe, & Zn Concentrations	34
15.	Eureka Gulch High-Flow Cu, Fe, & Zn Loading	35
16.	Geologic Sketch Map of Prospects on the Clipper Vein	40
17.	Geologic Sketch Map of the Ben Franklin Area	42
18.	Site Map – Ben Franklin Mine Area	45
19.	Geologic Sketch Map of the Bavarian Vein Workings	48
20.	Geologic Sketch Map of Workings on the Moon Beam Claim	52
21.	Howardsville Area Low-Flow Cu, Fe, & Zn Concentrations	54
22.	Howardsville Area Low-Flow Cu, Fe, & Zn Loading	55
23.	Howardsville Area High-Flow Cu, Fe, & Zn Concentrations	56
24.	Howardsville Area High-Flow Cu, Fe, & Zn Loading	57
25.	Site Map – Minnie Gulch	59
26.	Site Map – Maggie Gulch	64
27.	Site Map – Upper Cunningham Gulch	69
28.	Site Map – Lower Cunningham Gulch	70
29.	Vertical Projection of Part of the Highland Mary Mine	71
30.	Sketch Map of Part of the Green Mountain Mine	74
31.	Geologic Map of the Pride of the West Mine	75
32.	Site Map – Rocky and Stony Gulch	79
33.	Site Map – Buffalo Boy Mine Area	81
34.	Howardsville to Silverton Low-Flow Cu, Fe, & Zn Concentrations	84
35.	Howardsville to Silverton High-Flow Cu, Fe, & Zn Concentrations	85
36.	Howardsville to Silverton Low-Flow Cu, Fe, & Zn Loading	87
37.	Howardsville to Silverton High-Flow Cu, Fe, & Zn Loading	88
38.	Arrastra Basin Geologic Map	90
39.	Site Map – Arrastra Basin Area	93
40.	Stope Map of the Royal Tiger Workings	96
41.	Map Showing Workings on the Iowa and Melville Veins	99
42.	Detailed Map of the Iowa-Melville Vein Complex	100
43.	Stope Map of Part of the Iowa-Melville Vein	101
44.	Map of the Silver Lake Workings	105
45.	Stope Map of Part of the Silver Lake Vein	106
46.	Detail of the Unity Tunnel Portal	109
47.	Map of Workings on the Unity Tunnel Level	110

SDMS-1261223
Page 6 of 237

48. Geologic Map of the Little Nation Mine..... 130
49. Map of the Aspen Mine Workings..... 135

LIST OF TABLES

Page
1. DMG Sampling Program in 1998 and 1999..... 14
2. Zinc Loading From Tributaries of Animas River Below Eureka..... 24
2. Brief Synopsis of Reclamation Actions Recommended at This Time..... 144

INTRODUCTION

This report is intended to be a guidance document for use by the Animas River Stakeholders Group (ARSG) in prioritizing and planning water quality reclamation projects at mine sites in the Animas River between Silverton and the townsite of Eureka. The Colorado Department of Public Health and Environment, Water Quality Control Division (WQCD) performed the initial reconnaissance investigation of the basin in 1991, 1992, and 1993. The water quality samples collected at that time principally bracketed the tributary streams, but did not identify individual sources. Based upon those results, the Colorado Division of Minerals & Geology (DMG) conducted a more comprehensive reconnaissance to formulate a sampling plan for collecting and analyzing water quality and waste rock extract data. The DMG sampling program was conducted in 1998 and 1999 in accordance with this plan. The result of the DMG sampling program is this reclamation feasibility investigation. Using the report, the ARSG will prioritize the sites investigated and plan future reclamation work in the Animas River between Silverton and the townsite of Eureka.

The ultimate goal of this work is to improve the water quality and fisheries of the Animas River downstream of Silverton, Colorado by reclaiming abandoned mine sites upstream of Silverton. To achieve this goal, four reclamation feasibility investigations are planned for the Animas River watershed above Silverton. The first report published in 1997 covered mining sites in the Mineral Creek watershed. The second report published in1998 covered mining sites in the Cement Creek watershed. The third report published in 1999 covered mining sites in the Animas River above the townsite of Eureka. This report, which covers mining sites in the main stem of the Animas River between Silverton and the Eureka townsite is the final report.

GENERAL SITE DESCRIPTION

LOCATION

The Animas River is located in San Juan County in the San Juan Mountains in southwestern Colorado. The Animas River begins approximately 14 miles northeast of Silverton. Figure 1 is a general location map of the area.

Prospecting began in San Juan County in the 1860's. Mining began in the area in 1874. There are hundreds of inactive and abandoned mines and prospects in the Upper Animas. There are no currently operating mines in the Animas River above Eureka.

Investigation of the water quality of the Upper Animas River was initiated as part of the effort to improve the water quality in the Animas River below Silverton. The Animas River between Silverton and Eureka was targeted because investigations have shown that fish life in the Animas River below Eureka is impacted by heavy metals. Although there are natural sources within the watershed, mine drainage and leaching of waste rock for abandoned and inactive mines contributes to the degradation of water quality.

GEOLOGY

Water quality sampling in the upper Animas Basin around Silverton has shown that in-stream water quality is directly correlated to the specific geologic, mineralogic, and rock alteration attributes present in a stream's watershed. Rock type, primary mineralization suites, and both

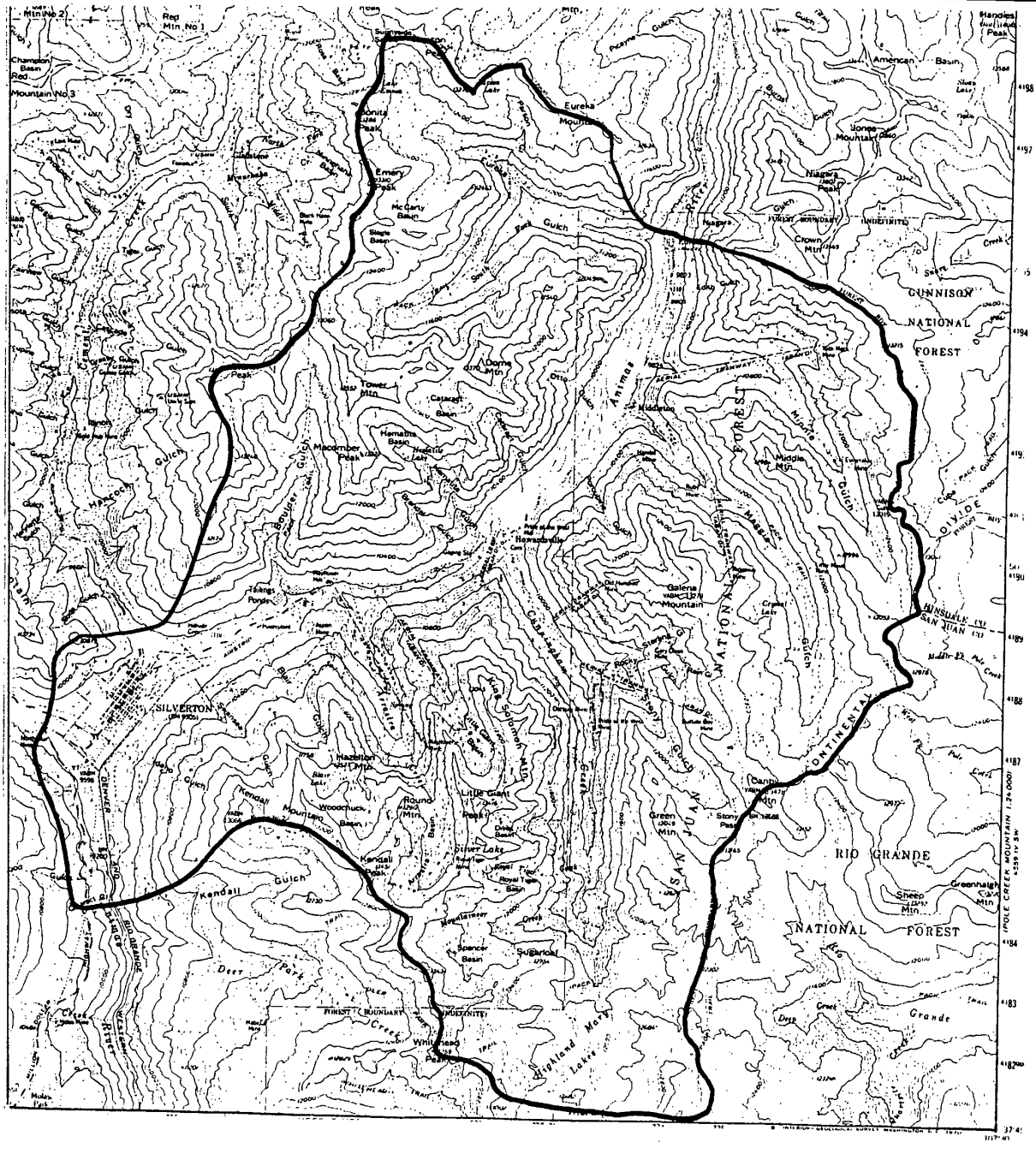


Figure 1. Topographic Map of the Lower Animas River Study Area below Eureka

pre and post-mineralization hydrothermal alteration systems present in a watershed characterize the observed stream water quality, even in undisturbed watersheds. Analytical data shows that the overall stream water quality in the lower Animas watershed is generally much better than the water quality of Cement Creek and Mineral Creek Watersheds. There is a direct association between better in-stream water quality and the geologic differences in mineralization and alteration styles present in the watersheds.

This section describes the geologic setting of the Lower Animas watershed, which has a direct bearing on in-stream water quality. Geologic factors include bedrock stratigraphy, structural controls, mineralization and alteration styles, and surficial geologic processes including soil formation and alluvial deposition.

Major rock units and regional structural geology are described in this section of the feasibility report, with detailed geologic descriptions of watersheds and individual mine sites presented in the site characterizations section.

Published large-scale geologic mapping is available for parts of the study area. The Eureka Gulch sub-basin lies within the Handies Peak 7.5 min. Quadrangle, mapped by R.G. Luedke and W.S. Burbank of the U.S Geological Survey at a scale of 1:24,000. This geologic quadrangle map was released in 1987 as U.S. Geological Survey GQ-1595, and is the main source of geologic information for Eureka Gulch. U.S.G.S. Professional Paper 378-A, Geology and Ore Deposits of the South Silverton Area, San Juan County, Colorado, by D.J.Varnes, 1963, is an invaluable source of geologic information on the Cunningham Gulch and Arrastra Basin-Silver Lake areas. Other smaller scale geologic maps cover the remainder of the area, and there are numerous papers and reports on individual mines and districts within the study area. Some limited field mapping was conducted in Little Giant Basin, Woodchuck Basin, and Rein Gulch during work on this project.

The U.S. Geological Survey has completed a new series of age-dates for volcanic rock sequences and vein deposits, and is in the process of re-interpreting the volcanic history of the area (USGS OFR-99-347, Bove et al,1999). Although the overall volcanologic framework and geochronology of volcanic events has been revised and re-interpreted through the normal refinement of geological understanding, these re-interpretations do not significantly change any site-specific geologic characterizations of individual mine sites, as related to descriptions of bedrock, ore mineralogy, alteration assemblages, and structural features of the sites. Previous U.S.G.S. quadrangle mapping and papers on descriptions of the rock units in the Silverton Caldera are still excellent sources of geologic data for site characterization, which directly influence water quality and reclamation feasibility issues.

BEDROCK STRATIGRAPHY

The Lower Animas watershed lies on the eastern margin of the Silverton Caldera, a regionally prominent Tertiary-aged volcanic center within the larger San Juan Volcanic Field. Extrusive sequences of volcanic ash-flow tuffs and flow breccias, dacite and rhyodacite lava flows and domes, were erupted in Oligocene Time upon a surface underlain by late Paleozoic sedimentary rock, and Precambrian metamorphic basement rocks. These extrusive rocks belong to the Silverton Volcanic series, and underlying Sapinero Mesa Tuff. The Silverton series has been further subdivided into mapable formations in the Silverton Caldera.

Later in the volcanic period, rhyolite, quartz-latite, andesite, and granite porphyries were intruded along the margins of the Silverton Caldera, in the form of dikes, plugs, and sills.

The sequence of rocks underlying and exposed in the project area are described here, from oldest to youngest (Ludeke and Burbank,1987, Varnes, 1963, Stover, 1998):

Precambrian Metamorphic Rocks

Irving Formation (Precambrian-X)- Metavolcanic and Metasedimentary gneiss, quartzite, amphibolite, and schist "basement" rock underlies the volcanic flows and breccias of the Silverton series throughout the study are, but is exposed only in the valley of upper Cunningham Gulch, in lower Stony Gulch, and just inside the mouth of the Animas Canyon at the Champion Mine. In the Animas Canyon area, an angular unconformable erosion surface forms the contact between the pre-Cambrian Irving section and the overlying upper-Cambrian Ignacio Quartzite. The erosion surface can be traced along the west canyon walls downstream of the Champion Mine. It is characterized by a smooth, undulating surface carved in the metasedimentary Irving Formation, beneath a quartz-cobble and pebble conglomerate at the base of the Ignacio sediments. Locally, the Precambrian contact has been structurally offset several feet across younger vein/ dike structures associated with the granite-porphyry intrusive on the flanks of Sultan Mountain, indicating a dilative emplacement of the veins. In all exposures of the Precambrian examined during this study, compositional layering of the underlying Irving metamorphic complex is sharply discordant to the overlying Cambrian sediments and Silverton Volcanic sequence.

Paleozoic Sedimentary Rocks

Leadville Limestone, Ouray Limestone and Elbert Formation, and the Ignacio Quartzite- (Cambrian to Mississippian)- A narrow section of lower Mississippian, upper Devonian and upper Cambrian sedimentary rock is exposed in a steeply plunging narrow band on the Animas Canyon walls in the vicinity of the Champion Mine, and in small isolated outcrops on the valley walls of Cunningham gulch above the mouth of Dives Basin and above the Highland Mary Mill site. The thin remnant of the basal Paleozoic section is buried under the alluvial valley floor of the Animas River where it crosses beneath the axis of the valley at the Champion Mine. The section continues in a narrow band along the southwestern slopes of Kendall Mountain on the east side of the canyon, between the pre-Cambrian Irving group and the overlying volcanic tuffs and flow-rocks of the Silverton Series, which form Kendall Mountain. There are numerous pits and quarries in the carbonate members of the section on Kendall Mountain, as well as the landslide above the Highland Mary mill.

The Ignacio quartzite can be traced along a Precambrian angular-unconformity in the cliffs above the Animas Canyon all the way to Elk Park, but is absent in the Cunningham and Stony Gulch exposures. Paleozoic rocks have been intruded and cut by the Sultan Mountain quartz-monzonite (described below). Outcrops along Highway 550 expose a brecciated, veined contact margin with the stock and its associated dikes and sills. Paleozoic rocks show contact metamorphism along the margins of the intrusive. Sedimentary strata at the intrusive contact are commonly highly altered, iron-stained, manganese stained, and impregnated with abundant limonite, hematite and other secondary alteration minerals.

Tertiary Volcanic Rocks

Eureka Rhyolite (Tuff) (Oligocene)- A gray to greenish-gray welded ash-flow tuff of quartz latite to rhyolitic composition, with conspicuous eutaxitic structure (banded structure, resulting in a

streaked or blotchy appearance). This tuff crops out in Eureka Gulch near the Terry Tunnel, along the lower east valley wall of the Animas River from Eureka to Maggie Gulch, and in the lower valley walls of Arrastra, Cunningham, and Maggie gulches. It also forms the southwestern slopes of Kendall Mountain, just above the mouth of the Animas Canyon.

Silverton Volcanics (Oligocene)- A sequence of predominantly intermediate composition lava flows and related volcaniclastic rocks were extruded onto the underlying Eureka Tuff in later Oligocene time. These volcanic flows have been subdivided into the following mapable formations exposed in the watershed, from oldest to youngest:

Burns Member- A sequence of light to dark-gray, thin to thick, intertounging flows and domes of porphyritic dacite and rhyodacite overlies the Eureka Tuff, and crops out over about half of the study area. These rocks have been propylitically altered throughout the watershed. (propylitic alteration described below).

Rhyolite Unit - A prominently flow-laminated lava flow and associated tuffs found at the base of the overlying Andesite Member. This unit only occurs near the summits of The higher peaks on the east side of the Animas River valley, on Treasure Mountain, and on the upper slopes of Eureka Mountain.

Andesite Member- A pyroxene andesite combined with the Henson Member. This unit is a brownish weathering, dark-gray, porphyritic andesite, in thick-to-thin commonly amygdaloidal lava flows and flow-breccias. It also can contain gray, black, and brown lenticular interbedded sandy and shaly tuffs, and locally, thin fresh-water limestones. This rock is widely exposed above the Burns Formation, forming the rugged ridges and peaks east of the Animas River Valley in the study area.

Younger Intrusive Rocks

Rhyolite (Miocene and Oligocene) Small dikes, sills, plugs, and irregular shaped masses of white to light-gray dense to moderately porphyritic rhyolite have intruded the older Burns Member and Eureka Tuff in Eureka Gulch, in and along the Toltec Fault zone.

Quartz Latite Porphyry (Miocene and Oligocene) Small dikes, plugs, and irregular masses of light brown to gray, dense, aphanitic to fine-grained rock with feldspar phenocrysts, in the Eureka Gulch area.

Quartz-Monzonite (Granite) Porphyry (Oligocene-Miocene) - Hypabyssal (moderately deep depth of emplacement) intrusive porphyritic quartz-monzonite stocks, dikes, sills and sheets intruded into the older volcanic flows and underlying Paleozoic and Precambrian rock along and concordant with the ring-faulted margin of the Silverton Caldera, east of the Animas River Valley. At Silverton, the wide, park-like valley occupied by the Animas River is underlain by a late to middle aged Tertiary intrusive stock of this porphyry. The stock underlies the valley and both sides of the river from Silverton to the narrow mouth of the Animas Canyon at the Champion Mine. This same type of intrusive is also found in thick-to-thin dikes and intrusions in exposures along ring-fault zones high on the valley walls of lower Arrastra, Cunningham, and Maggie Gulches. The strike of these dikes roughly parallels the ring-fault structure of the Silverton Caldera, trending northeasterly through the study area.

SURFICIAL GEOLOGY

The high alpine terrain in the watershed has been deeply scoured and sculpted by glaciers during the past 40,000 years. Tributary gulches to the main Animas Valley are typically of the "hanging" variety, in that the broad, U-shaped upper ice-sculpted sections of the side gulches are generally separated from the main valley by steep, v-shaped narrow canyon sections. This topography indicates that the glaciers which carved most of the side gulches in the study area were tributary to the main Animas Glacier, and did not scour the lower sections of their valleys, instead joining the main ice mass at a higher elevation above the present valley floor. Cunningham Gulch is the exception.

Exposed bedrock outcrop with thin patchy soils covers an estimated 75% of the surface. Unconsolidated surficial deposits are generally confined to the valley floors, and consist of remnant patches and aprons of glacial till, stream alluvium, and peat and organic bog deposits in wetland areas on the flat-floored glacially carved valleys. Talus and scree deposits mantle extensive areas of mountain slopes beneath cliffs and outcrops, where they have formed from continuous rockfall. Debris fans composed of coarse, bouldery alluvium are commonly found at the mouths of steep ravines and tributary streams where they join the main valley. Isolated landslide deposits occur on steep slopes throughout the basin, and colluvial deposits mantle many of the lower valley footslopes below timberline.

Much of the watershed lies above timberline in a high alpine environment. Snow avalanches, debris flows in steep ravines and tributaries, and rock fall are constant geologic hazards that affect many parts of the area. Specific geologic hazards affecting sites of interest will be discussed in the individual mine site descriptions.

STRUCTURAL GEOLOGY

Structurally, the Lower Animas study area lies along the eastern and southeastern part of the Silverton Caldera. The watershed includes areas on the concentric ring-fault structure defining the eastern edge of the caldera, and part of the Eureka Graben, which defines a prominent down-dropped area within the northern half of the caldera. Figure 2 is a map showing the structural geology of the area. The Eureka Graben and caldera margin ring-faults are outlined in heavy lines. As can be seen from the map, this part of the Silverton Caldera is complexly faulted and fractured. East of the Animas River valley, which marks the ring fault zone, a system of northwest-southeast striking tangential fractures cuts across volcanic rock surrounding the caldera on the eastern margin of the watershed.

Eureka Gulch lies in a region of complex fault systems associated with the Toltec Fault zone, and the Animas Fault, which marks the caldera margin along the Animas River valley. The Eureka Graben and its associated northeast-striking faults are believed to have formed as the domed-up caldera rocks above active magma chambers relaxed and sagged back during periods of volcanic quiescence and magma retreat. During the various resurgences in volcanic activity through the late Tertiary, faults bounding the graben and tangential and parallel to the caldera were repeatedly reactivated. Today, the Eureka Graben is a boot-shaped structure bounded by a series of major, steeply dipping mineralized faults. (Burbank and Luedke, 1969)

Southeast of the ring-faults along the Animas River is a series of fractures tangential and radial to the caldera margin. These structures die out where the Precambrian contact approaches the margin of the volcanic deposits in upper Arrastra, Cunningham, and Stony Gulches. As with the fractures associated with the Eureka Graben, these fissures were also episodically active during

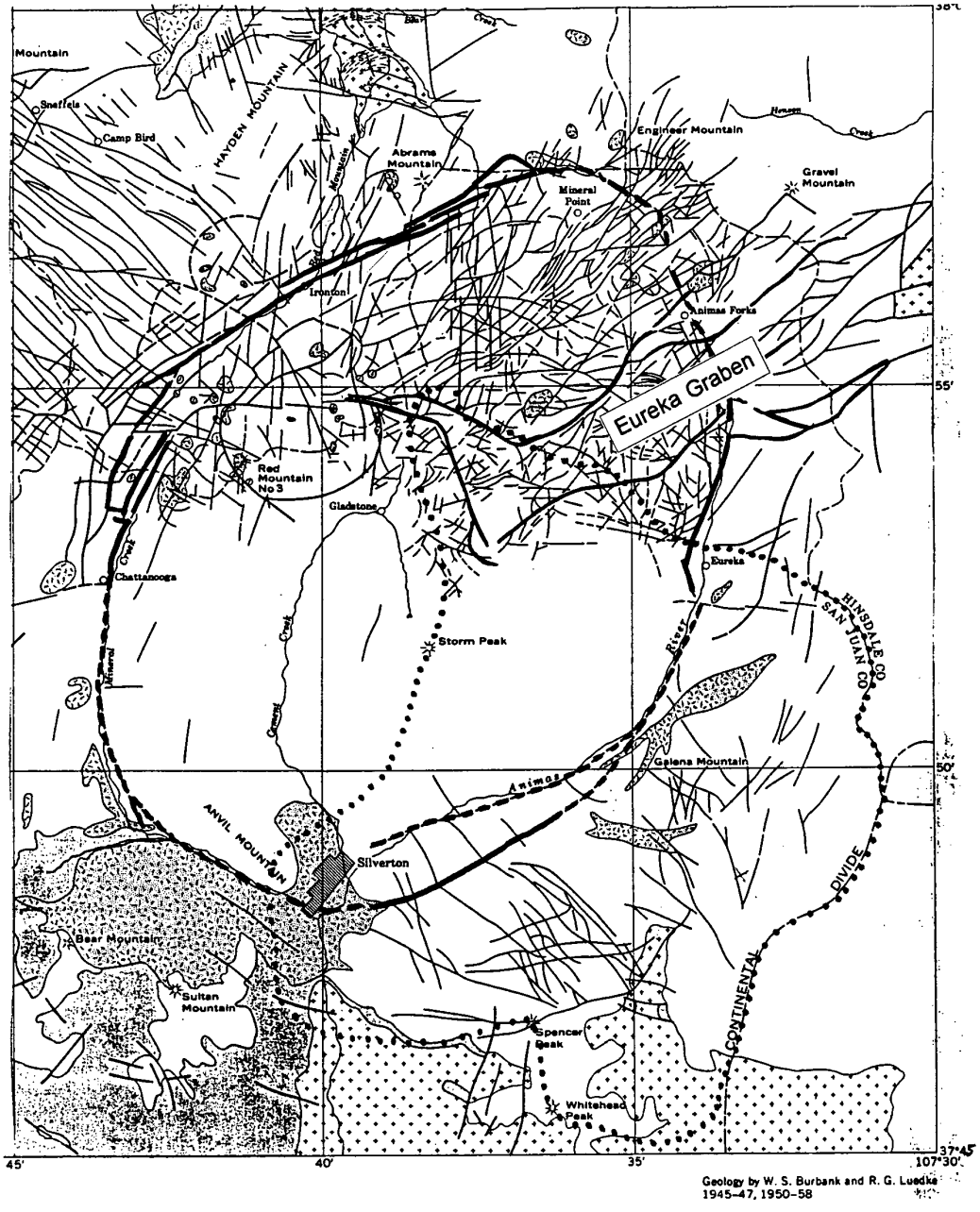


Figure 2. Structural Geologic Map of the Silverton Caldera

Heavy lines denote ring-fracture boundry of caldera; dotted line outlines study area boundry. Figure is from Plate 1, Burbanke and Luedke, 1969

recurrent volcanic activity, and became the locus for ore forming fluids circulating through the subsurface much later in the geologic history of the caldera. Many of the mines and prospects characterized in this report are related to this suite of principal fissures, dikes, and veins.

HYDROTHERMAL ALTERATION

Water quality sampling in the upper Animas Basin around Silverton has shown that a stream's water quality is directly related to the specific geologic, mineralogic, and alteration system present in that stream's watershed. Primary mineralization suites and subsequent alteration processes can be directly correlated with stream water quality, even in undisturbed watersheds.

All the volcanic rocks in the San Juan Volcanic Depression were extensively propylitized and altered on a regional scale, prior to ore deposition. "Propylitic" alteration is a term used to describe a particular type of mineralogic and chemical change which occurs by circulation of aqueous hydrothermal solutions through the original volcanic rock mass. The addition of carbon dioxide and water to the rock mass results in mineralogical changes to the rocks. Propylitic alteration in the caldera is typified by the formation and addition of chlorite, calcite, and clays in weakly altered rocks, to epidote, albite, and chlorite in the stronger phases. Propylitic alteration has resulted in a dull green or greenish gray color to virtually all of the volcanic flow rocks.

Solfataric alteration also occurs in the lower Animas study area, but only in a limited area near the mouth of Eureka Gulch, and in isolated places along the western margin of the Animas River valley from Eureka to Howardsville. Rocks near the structural margin of the caldera along the Animas Fault at Eureka have been highly altered by solfataric and hydrothermal processes. "Solfataric" processes have subjected the rock to attack and leaching by hot sulphurous gases and solutions moving upwards along the structural margin of the Silverton Caldera. Hydrothermal processes have leached and "stewed" most of the base minerals from the rocks, while introducing such large amounts of sulfur that this type of solfatarically altered terrain is readily distinguished from the surrounding regional propylitic alteration. Rock in these hydrothermal zones was so strongly altered and leached that little remains except silica, kaolinite, and sulfate and sulfide alteration products. Virtually all potential buffering minerals in the country rock have been leached away, leaving the quartz-allunite-pyrite alteration assemblage more characteristic of the Red Mountain District. Bleaching of the rocks and subsequent surficial oxidation of the solfataric pyrite through geologic time has resulted in the brilliant red, orange, and yellow staining which characterizes the solfataric alteration zones, as seen in the cliffs around Eureka.

Rocks within the ring fault zone along the Animas valley near Silverton are highly fractured, stained, and altered. Along much of the ring-faulted margin, the volcanic dacites and rhyodacites are altered to an aggregate of quartz, sericite, and clay minerals. Staining here is mostly due to oxidation of finely disseminated pyrite which is prevalent through the rocks in the ring fault zones.

Over most of the remainder of the lower Animas area, solfatric processes do not seem to have been as prevalent. There are only a few scattered areas of naturally pyritized country rock in the headwaters of the upper Animas, or streams draining the eastern half of the caldera, as compared to Cement and Mineral Creek watersheds. Base minerals remain in the rock, and the greater abundance of carbonate minerals in the veins and country rock provide better buffering capacity to the hydrologic system in this part of the basin. Water quality in the gulches draining the eastern part of the caldera is generally very good, and fish are present in many of the streams.

Wall rock adjacent to mineralized veins has been subjected to more intense but localized alteration processes. Wall rock alteration occurred episodically as the veins were subjected to successive phases of mineralization from solutions having often very different composition, and therefore varies with the individual vein deposit.

Manganese minerals are characteristic of alteration in the wall rocks of the major fault-fracture veins in and around the Eureka Graben, in the Eureka Gulch area. Manganese from mineralizing solutions moving through the fissure veins has penetrated the wall rocks, leaving rhodonite and rhodocrosite alterations. Where weathered on the surface, these manganese-altered rocks often are conspicuous due to the characteristic black staining of manganese oxides (pyrolusite, psilomelane).

Extensive silicification and deposition of quartz along the veins occurs in many areas of the lower Animas watershed. Silicification has resulted in spectacular, resistant, outcropping veins that can be traced by eye for thousands of feet across the surface in the Eureka Gulch, Little Giant, and Silver Lake areas. Often the silcification has resulted in stock-works of quartz veinlets running in the veins and wall rock of larger ore deposits.

Carbonate minerals such as calcite and dolomite are also found in some veins and in the wall rock on the eastern margin of the lower Animas watershed. The higher incidence of carbonate mineralization and alteration here are believed to in part account for the improved buffering and subsequent better quality of ground and surface waters draining this part of the basin.

BASELINE DATA COLLECTION

Water, mill tailings and waste rock were sampled and analyzed to better understand the sources of heavy metals in the Animas River below Eureka. The initial reconnaissance of the Upper Animas River was completed by the WQCD in 1991, 1992, and 1993. The WQCD collected water quality samples at 39 different locations, and analyzed the samples for various dissolved and total recoverable metals. The locations of these sites are shown on Figures 3, 4 and 5 in smaller italicized underlined letters. The WQCD sampled the sites from 1 to 4 times during four sampling events. The number of dissolved and total recoverable analytes varied with each sample event.

Based on the WQCD results and further reconnaissance investigations, water quality sampling was conducted by the Division of Minerals & Geology (DMG) in September 1998 and June and July 1999. Mining waste sampling was conducted by the DMG in August 1998. The locations of these sampling areas are shown on Figures 6, 7 and 8.

WATER QUALITY SAMPLING

The DMG sampled along the Animas River below Eureka during the low-flow and high-flow regimes to determine the extremes in the amount of heavy metals contributed by various sources. Water samples were collected on September 3 and 4, 1998 to obtain the low-flow data and June 22-24, 1999 and July 21, 1999 to obtain the high-flow data.

Water samples were collected in the Animas River above and below sites identified as potential sources during reconnaissance investigations. The DMG sampling plan included collecting dissolved metal, total recoverable metal, and major cation and anion samples at 116 different locations in the Animas River. A list of the sampling sites, their locations and the time of year at which sampling was performed at that location is provided in Table 1. The locations of the sampling sites are shown on Figures 3, 4 and 5 in large bold letters.

Teams composed of volunteers and individuals from various government agencies collected water samples. Raw depth and width-integrated samples were taken in the stream. The total recoverable metals samples were then transferred directly to pre-cleaned pre-acidified 250 ml sample bottles; anion samples were transferred to pre-cleaned neutral 250 ml sample bottles; and dissolved metals samples were collected by filtering the raw water through a 0.45 micron filter into a pre-cleaned pre-acidified 250 ml sample bottle. After sampling, the samples were placed in coolers, and the anion samples were iced. All sampling activities were completed at the sampling site. During the sampling, pH, electrical conductivity and temperature were measured at the site.

During the sampling events, flow measurements were taken at the same time that the water quality samples were collected. During the low-flow sampling, water quality samples and flow measurements were taken by continually moving up the watershed. During the high-flow sampling event, each individual tributary was sampled in as short a period as possible to reduce the effects from diurnal flow variations. Also, because of the number of sampling sites, three days were required to collect all the samples. During the June, 1999 sampling event, flows could not be measured at most of the sites on the Animas River and Cunningham Gulch because of the high volume of water. Flow measurements were taken from the bridges at the mouth of Cunningham Gulch, the Howardsville Bridge over the Animas, the Arrastra Gulch bridge over the Animas and the Lackawanna Bridge over the Animas. Flows were estimated at the sites that could not be measured based upon historic data. The sampling sites in upper Arrastra Basin, upper Little Giant Basin, and upper Rocky Gulch were sampled during July because of deep snow during the June sampling event.

The September 1998 low-flow data is presented in Appendix 1. The June and July 1999 high-flow data is presented in Appendix 2. It should be noted that the metals loading data in the appendices is reported in grams per day, whereas throughout the text, the data is reported in pounds per day. This was done to enable the reader to visualize the amounts better. To convert pounds to grams multiply the number of pounds by 454. Conversely, to convert grams to pounds, divide the number of grams by 454.

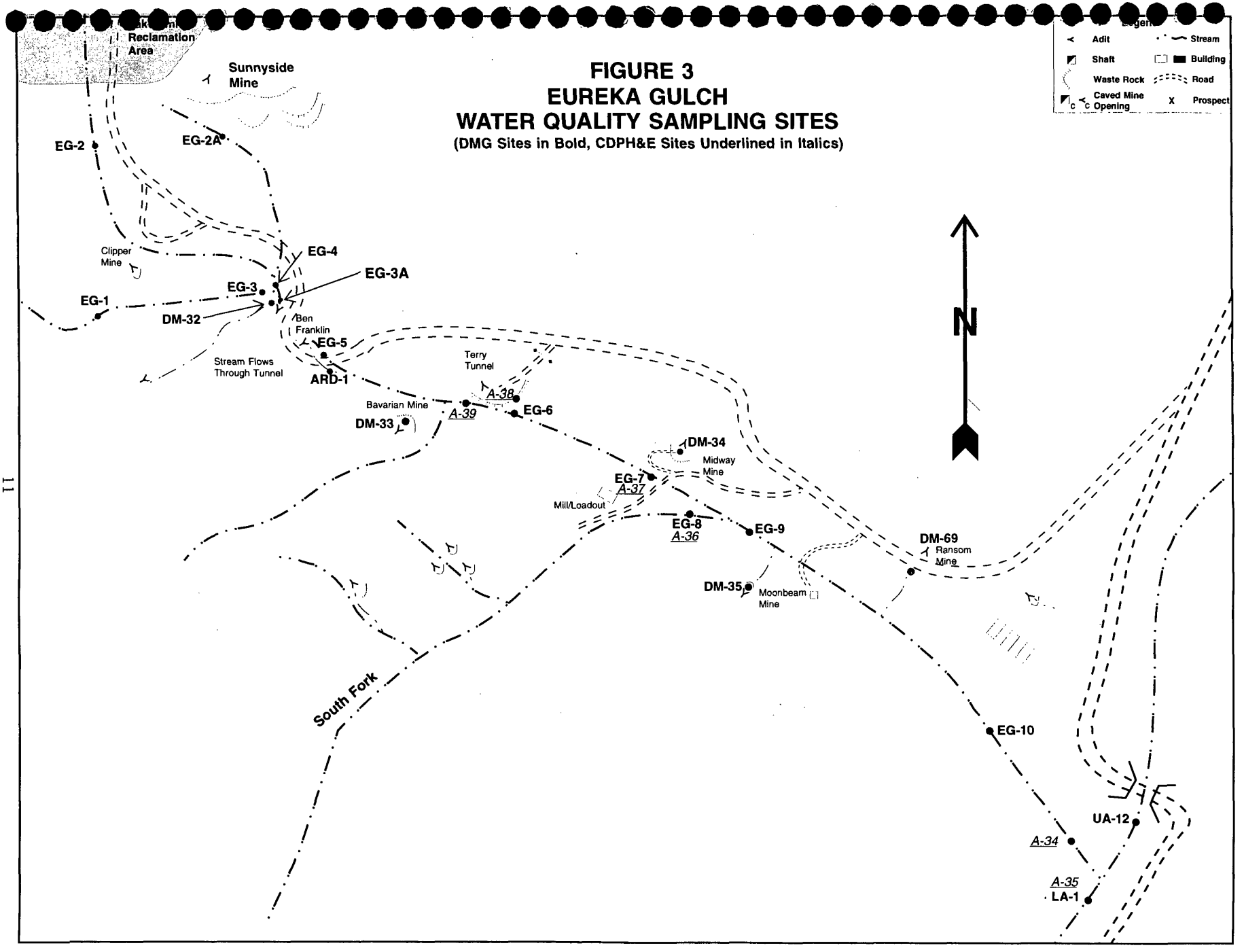


FIGURE 3
EUREKA GULCH
WATER QUALITY SAMPLING SITES
(DMG Sites in Bold, CDPH&E Sites Underlined in Italics)
Legend
Adit
Stream
Shaft
Building
Waste Rock
Road
Caved Mine Opening
Prospect
N
Reclamation Area
Sunnyside Mine
EG-2
EG-2A
Clipper Mine
EG-4
EG-3A
EG-3
EG-1
DM-32
Ben Franklin
EG-5
Stream Flows Through Tunnel
ARD-1
Terry Tunnel
A-38
Bavarian Mine
A-39
EG-6
DM-33
DM-34
Midway Mine
EG-7
A-37
Mill/Loadout
EG-8
A-36
EG-9
DM-69
Ransom Mine
DM-35
Moonbeam Mine
South Fork
EG-10
UA-12
A-34
A-35
LA-1

FIGURE 4
HOWARDSVILLE AREA
WATER QUALITY SAMPLING SITES
DMG Sites in Bold, CDPH&E Sites Underlined in Italics)

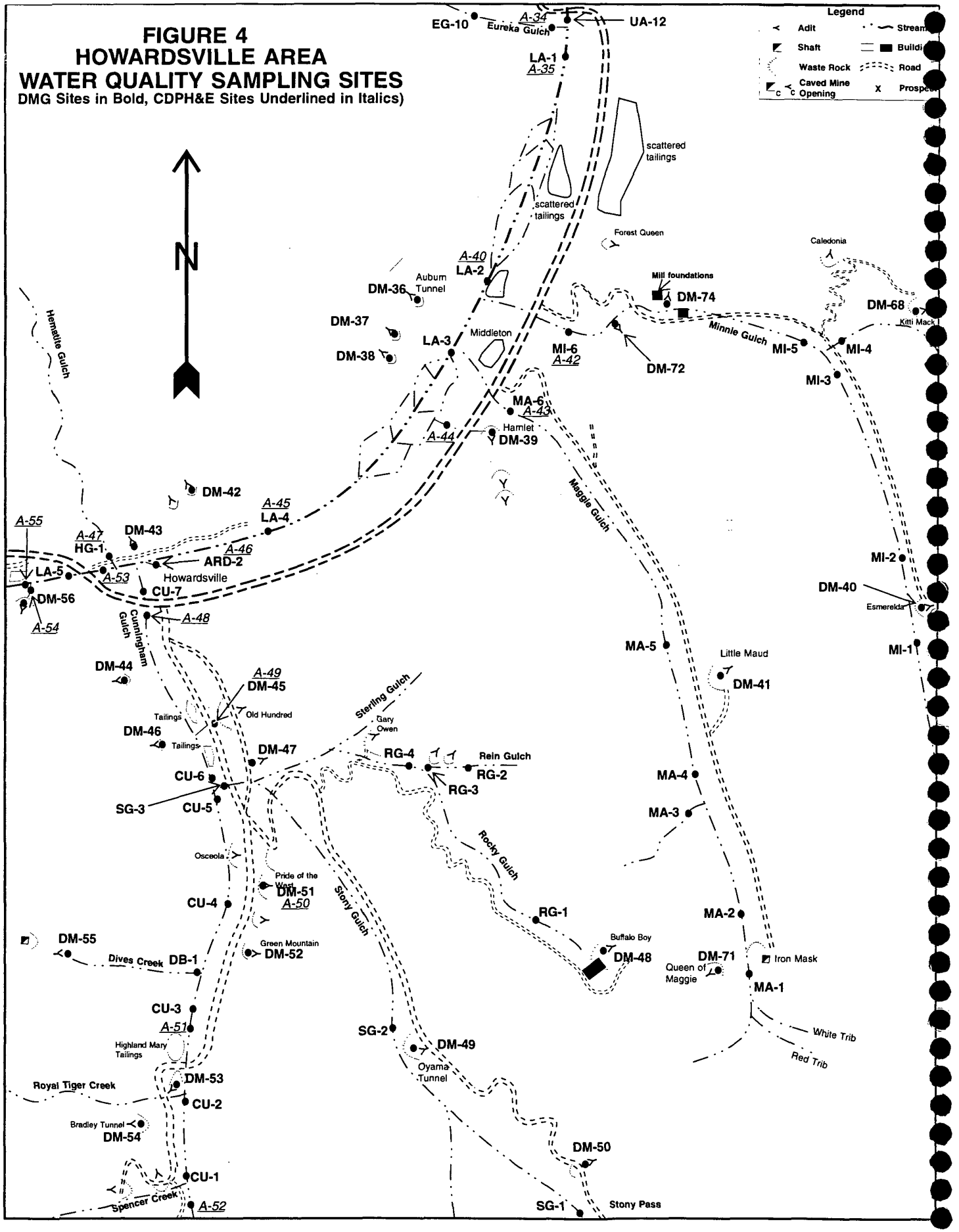


FIGURE 5
HOWARDSVILLE TO SILVERTON WATER QUALITY SAMPLING SITES
DMG Sites in Bold, CDPH&E Sites Underlined in Italics)

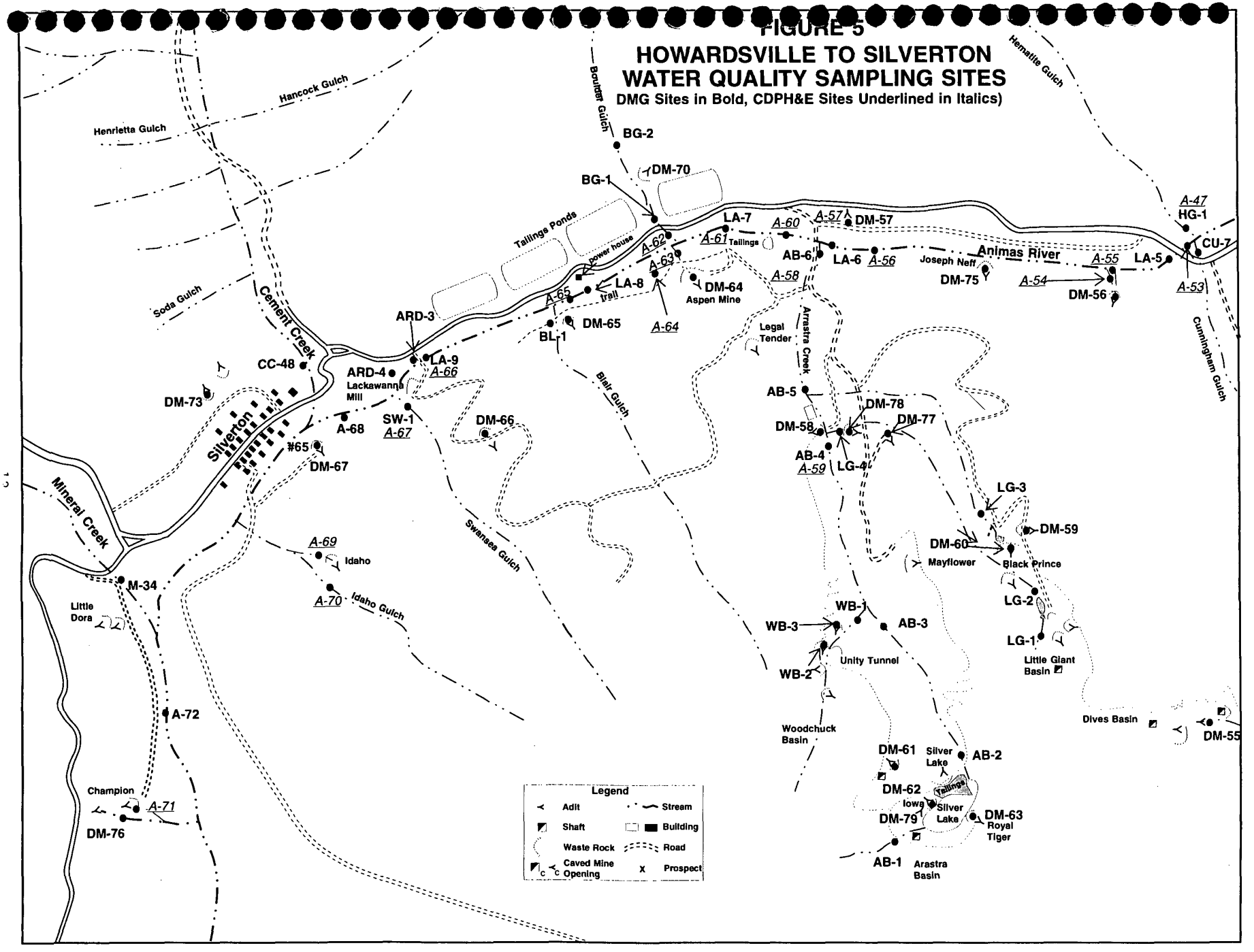


Table 1. DMG Sampling Program in 1997 and 1998

Sample No.	Location	Sept. 1998	June 1999	July 1999	Comments
UA-12	Animas above Eureka Gulch	X	X		Reference Station to compare with Animas River above Eureka
LA-1	Animas below Eureka Gulch	X	X		Velocity was too high to measure flow in June
LA-2	Animas above Minnie Gulch	X	X		Velocity was too high to measure flow in June
LA-3	Animas below Maggie Gulch	X	X		Velocity was too high to measure flow in June
LA-4	Animas above Howardsville Tailings	X	X		Velocity was too high to measure flow in June
LA-5	Animas below Cunningham Gulch	X	X		Flow Measured from Howardsville Bridge in June, 1999
LA-6	Animas above Arrastra Gulch	X	X		Velocity was too high to measure flow in June
LA-7	Animas below Arrastra Gulch	X	X		Flow Measured from Arrastra Bridge in June, 1999
LA-8	Animas below Boulder Gulch	X	X		Velocity was too high to measure flow in June
LA-9	Animas below Mayflower Tailings	X	X		Flow measured from Lackawanna Bridge in June, 1999
A-68	Animas Above Cement Creek	X	X		Permanent Station
A-72	Animas below Mineral Creek	X	X		Permanent Station
CC-48	Cement Creek above Animas	X	X		Permanent Station
M-34	Mineral Creek above Animas	X	X		Permanent Station
EG-1	Eureka Gulch Headwaters	X	X		
EG-2	Eureka Gulch below Lake Emma	X			
EG-2A	Eureka Gulch above Sunnyside Mine		X		Stream below Lake Emma could not be located due to deep snowpack during June
EG-3	Eureka Gulch Headwaters above confluence	X	X		
EG-3A	Eureka Gulch below Headwaters confluence		X		Deep snow resulted in missing site EG-3
EG-4	Eureka Gulch below Lake Emma/ Sunnyside confluence	X	X		
EG-5	Eureka Gulch below Ben Franklin Mine	X	X		Stream passes through Ben Franklin Mine
EG-6	Eureka Gulch Below Terry Tunnel	X	X		
EG-7	Eureka Gulch above South Fork	X	X		
EG-8	South Fork above Eureka Gulch	X	X		
EG-9	Eureka Gulch below South Fork	X	X		
EG-10	Eureka Gulch above Animas	X	X		
MI-1	Minnie Gulch above Esmerelda Mine	X	X		
MI-2	Minnie Gulch below Esmerelda Mine	X	X		
MI-3	Minnie Gulch above Kitti Mack Tributary	X	X		
MI-4	Tributary containing Kitti Mack and Caledonia Mines	X	X		
MI-5	Minnie Gulch above Animas	X	X		
MA-1	Maggie Gulch Headwaters	X	X		
MA-2	Maggie Gulch below upper mines	X	X		

Sample No.	Location	Sept. 1998	June 1999	July 1999	Comments
MA-3	Crystal Lake Tributary		X		
MA-4	Maggie Gulch above Little Maud Mine		X		No Drainage from Little Maud at low-flow
MA-5	Maggie Gulch below Little Maud Mine		X		
MA-6	Maggie Gulch above Animas	X	X		
CU-1	Cunningham Gulch at Highland Mary Trailhead	X	X		Velocity was too high to measure flow in June
CU-2	Cunningham Gulch above Highland Mary Tailings	X	X		Velocity was too high to measure flow in June
CU-3	Cunningham Gulch below Highland Mary Tailings	X	X		Velocity was too high to measure flow in June
CU-4	Cunningham Gulch below Dives Creek	X	X		
CU-5	Cunningham Gulch above Stony Gulch	X	X		Velocity was too high to measure flow in June
CU-6	Cunningham Gulch below Stony Gulch	X	X		Velocity was too high to measure flow in June
CU-7	Cunningham Gulch above Animas	X	X		
RG-1	Rocky Gulch below Buffalo Boy Mine	X	X	X	
RG-2	Rein Gulch above waste rock piles	X	X		
RG-3	Rein Gulch below waste rock piles	X	X		
RG-3A	Rein Gulch above Rocky Gulch		X		
RG-4	Rocky Gulch below Rein Gulch	X	X		
SG-1	Stony Gulch Headwaters	X	X		
SG-2	Stony Gulch below draining mines	X	X		
SG-3	Stony Gulch above Animas	X	X		
LG-1	Little Giant Headwaters (main stream)	X		X	
LG-2	Little Giant below lakes (main stream)	X		X	
LG-3	Little Giant below Big Giant Mine (secondary stream)	X		X	Two separate streams flow from Little Giant Basin
LG-4	Little Giant above Arrastra (main stream)	X	X		
LG-5	Little Giant above Arrastra (secondary stream)		X	X	
LG-6	Little Giant above debris fan		X	X	
AB-1	Arrastra above Silver Lake	X		X	
AB-2	Arrastra below Silver Lake	X		X	
AB-3	Arrastra above Woodchuck				Stream flows underground
AB-4	Arrastra below Woodchuck	X	X	X	
AB-5	Arrastra below Little Giant	X	X		
AB-6	Arrastra above Animas	X	X		
WB-1	Woodchuck above Arrastra				Stream flows underground
WB-2	Woodchuck above Unity Tunnel	X		X	
WB-3	Flow from lower adit of Unity Tunnel	X		X	A portion of the stream flows into the upper adit of the Unity Tunnel
DB-1	Dives Basin above Cunningham Gulch	X	X	X	No flow measurement 7-99
HG-1	Hematite Gulch above Animas	X	X		
BG-1	Boulder Gulch above Animas	X	X		
BG-2	Boulder Gulch above Mayflower Tailings		X		
BL-1	Blair Gulch above Animas	X	X		
SW-1	Swansea Gulch above Animas	X	X		
DM-32	Ben Franklin Prospect	X	X		
DM-33	Bavarian Mine Drainage	X	X		
DM-34	Midway Mine Drainage	X	X		

Sample No.	Location	Sept. 1998	June 1999	July 1999	Comments
DM-35	Moonbeam Mine Drainage	X	X		
DM-36	Auburn Tunnel Mine Drainage	X	X		
DM-37	Unknown Mine Drainage	X	X		
DM-38	Unknown Mine Drainage	X	X		
DM-39	Hamlet Mine Drainage	X	X		
DM-40	Esmerelda Mine Drainage	X	X		
DM-41	Little Maud Mine Drainage		X		No flow in September 1998
DM-42	Progressive Mine Drainage		X		No flow in September 1998
DM-43	Silver Star Mine Drainage	X	X		
DM-44	Hidden Treasure Mine Drainage	X	X		
DM-45	Old Hundred Mine Drainage	X	X		
DM-46	Smuggler Mine Drainage	X	X		
DM-47	Emma Mine Drainage	X	X		
DM-48	Buffalo Boy Mine Drainage				No Flow
DM-49	Oyama Tunnel Drainage	X	X		
DM-50	Unknown Mine Drainage	X	X		
DM-51	Pride of the West Mine Drainage	X	X		
DM-52	Green Mountain Mine Drainage	X	X		
DM-53	Innis Tunnel Drainage	X	X		
DM-54	Bradley Tunnel Drainage	X	X		
DM-55	Shenandoah Dives Mine Drainage			X	All flow from Dives Basin originated from this mine in September 1998
DM-56	Little Nation Mine Drainage	X	X		
DM-57	Valley Forge Mine Drainage	X	X		
DM-58	Ezra R Mine Drainage	X	X		
DM-59	King Solomon Mine Drainage	X		X	
DM-60	Black Prince Mine Drainage	X		X	
DM-61	Upper Iowa Mine Drainage	X		X	No flow in September 1998
DM-62	Iowa Mine Drainage	X		X	
DM-63	Royal Tiger Mine Drainage	X		X	
DM-64	Aspen Mine Drainage	X	X		
DM-65	Blair Mountain Tunnel Drainage	X	X		
DM-66	Last Chance Mine Drainage	X	X		
DM-67	Mighty Monarch Mine Drainage	X	X		
DM-68	Kitti Mack Mine Drainage		X		Not sampled in September 1998
DM-69	Ransom Mine Drainage	X	X		
DM-70	Mine in Boulder Gulch				No Flow
DM-71	Queen of Maggie Mine Drainage	X	X		
DM-72	Unknown Mine Drainage	X	X		
DM-73	Little Casino Mine Drainage	X	X		
DM-74	Midway Tunnel Mine Drainage	X	X		
DM-75	Joseph Neff Mine Drainage	X			Site could not be accessed in June and July 1999 due to high flow in Animas River
DM-76	Pittsburg Tunnel Drainage (Malachite Falls)		X		No flow in September 1998
DM-77	Jess Mine Drainage	X	X		
DM-78	Argentine Mine Drainage	X	X		
DM-79	Iowa Mine (southern adit) Drainage	X		X	
ARD-1	Drainage from Ben Franklin waste pile	X	X		
ARD-2	Drainage from Howardsville Tailings	X	X		

Sample No.	Location	Sept. 1998	June 1999	July 1999	Comments
ARD-3	Spring east of Silverton Lakes Campground		X		
ARD-4	Spring south of Silverton Lakes Campground		X		

MINING WASTE SAMPLING

Mining waste samples were collected at 51 different locations in the Animas River below Eureka. The samples included 40 waste rock sites and 11 mill tailings sites. Vegetated soils in Rocky Gulch and between Blair Gulch and Swansea Gulch and unvegetated scree in Maggie Gulch were also sampled. Stream gravels were collected and analyzed along the Animas below Eureka and immediately below the confluence of the Animas and Cement Creek on the north side of the Animas. The location of the sampling sites is shown on Figures 6, 7, and 8. The mining wastes were investigated to provide information sufficient to allow the Animas River Stakeholders Group to prioritized mine sites for reclamation.

A 2:1, by volume, extract was collected in the field. The extract was analyzed for field parameters, then a portion was analyzed in the laboratory for heavy metals and major cations.

Waste rock and soil/outcropping samples were collected from a minimum of ten and maximum of twenty locations at each site. Acid-washed plastic 100 ml beakers were used to remove the top two inches of material. The 10+ sub-samples from each site were composited in a 1-gallon re-closeable plastic bag. The composited samples were thoroughly mixed in the field by inverting the bag numerous times. After mixing, 150 ml of sample was removed and placed in a 1-liter plastic beaker along with 300 ml of deionized water. The wetted sample was then vigorously mixed for 15 seconds; plastic wrap was placed over the top, then left to settle for 90 minutes. Ninety minutes was the amount of time it took for the clay fraction to settle to the bottom of the beaker.

After 90 minutes, the liquid was filtered through very fine grade soil filters (approximately 2 micron). A portion of the liquid was then used to measure the total acidity, pH, and specific conductance. The remaining liquid was acidified with nitric acid for lab analysis. Total acidity was determined using a Hach digital titrator to reach a phenolthalein end-point. Specific conductance and pH were measured with a HyDAC instrument.

The data from the waste rock sampling is presented in Appendix 3. Results for total acidity, iron, copper, and zinc is also reported on Figures 9, 10 and 11.

Natural background samples were taken at three sites. In general, the natural background samples were one to two orders of magnitude lower in metals than the mining waste samples. Most of the acidity values of the mining waste samples were similar to the acidity of the background samples. The average total acidity of the waste samples was 64.3 mg/l, compared to 3.3 mg/l for the natural background samples. The mining waste samples from upper Eureka Gulch generally had the highest acidity and metals content. The average total metal content of the mining wastes was approximately 48,848 parts per billion (ppb), compared to approximately 3,128 ppb for the background materials. This data indicates that, in general, the mining wastes produce one order of magnitude more metals than the natural soils and outcroppings.

FIGURE 6
EUREKA GULCH
WASTE ROCK SAMPLING SITES

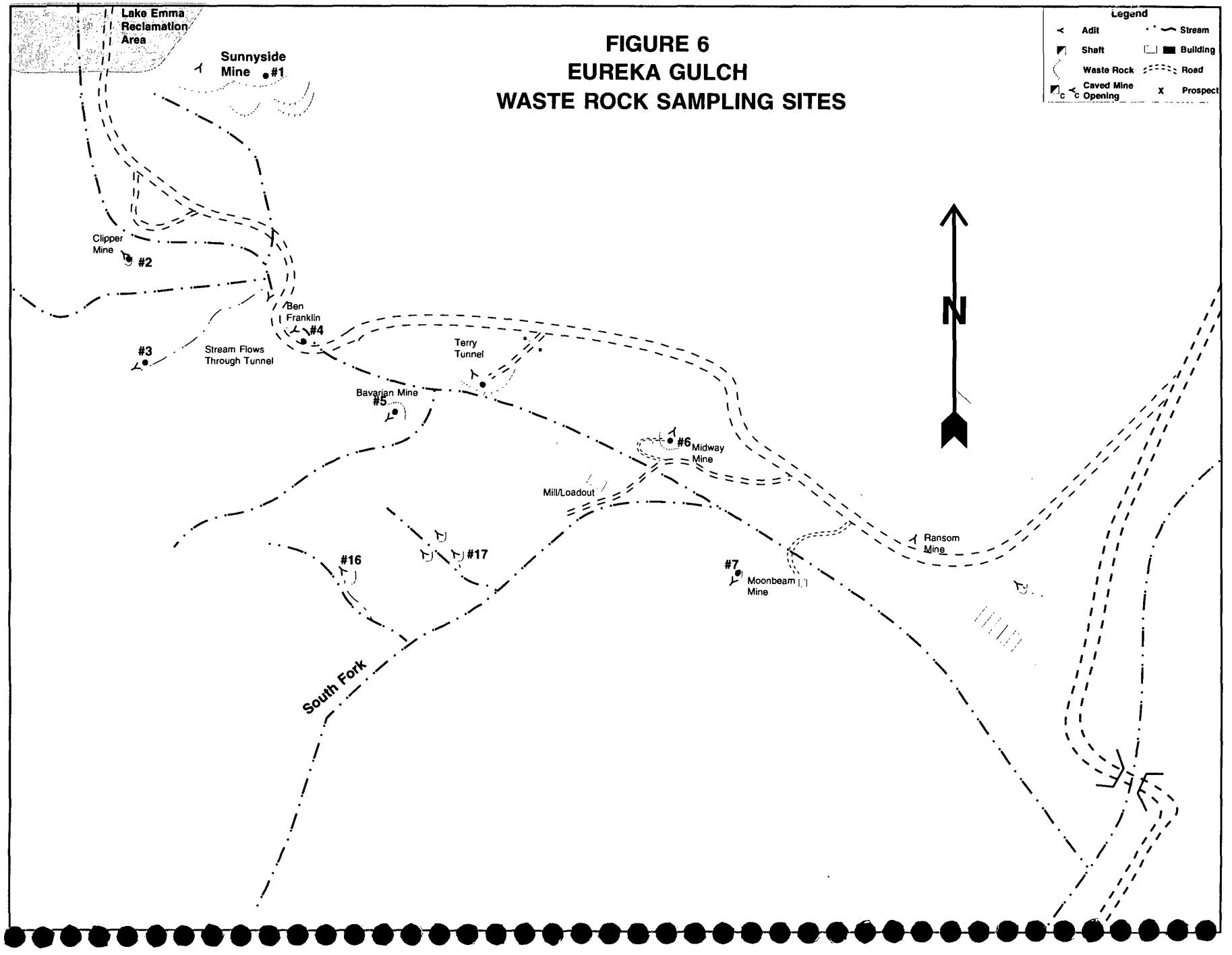


FIGURE 7
HOWARDSVILLE AREA
WASTE ROCK SAMPLING SITES

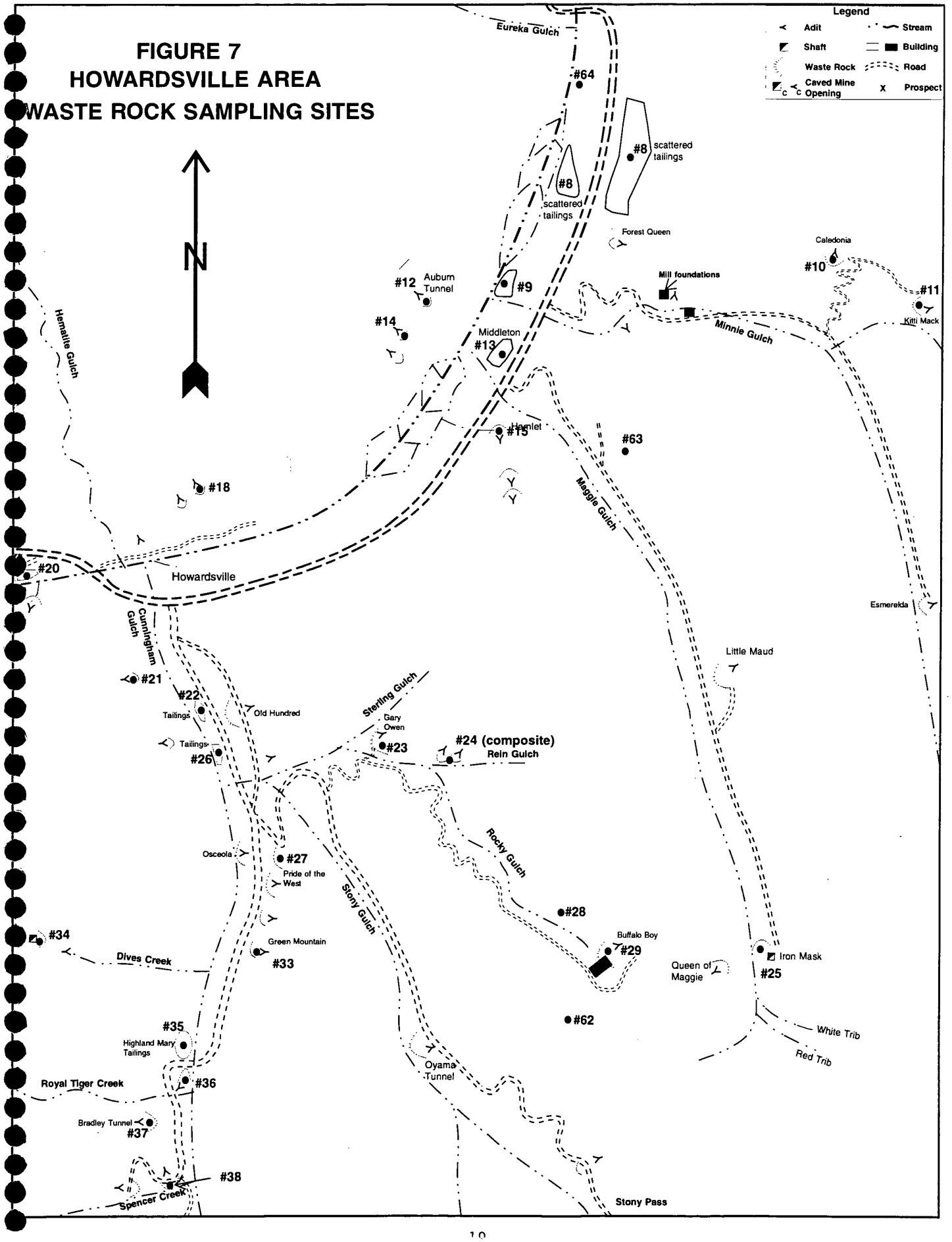


FIGURE 8
HOWARDSVILLE TO SILVERTON
MINE WASTE SAMPLING SITES

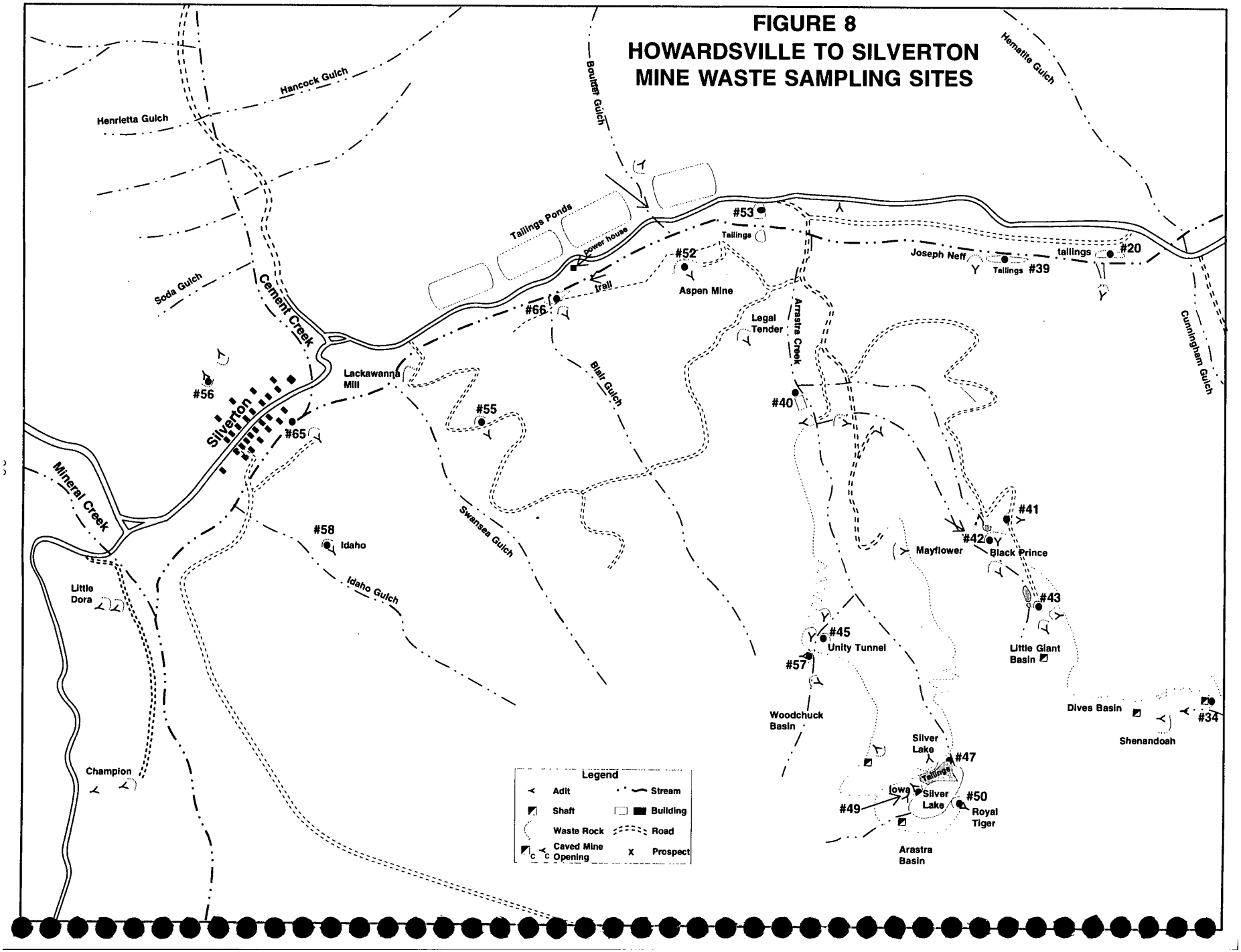


FIGURE 9
EUREKA GULCH
WASTE ROCK LEACHATE RESULTS
(Acidity in mg/l, Metals in ug/l)

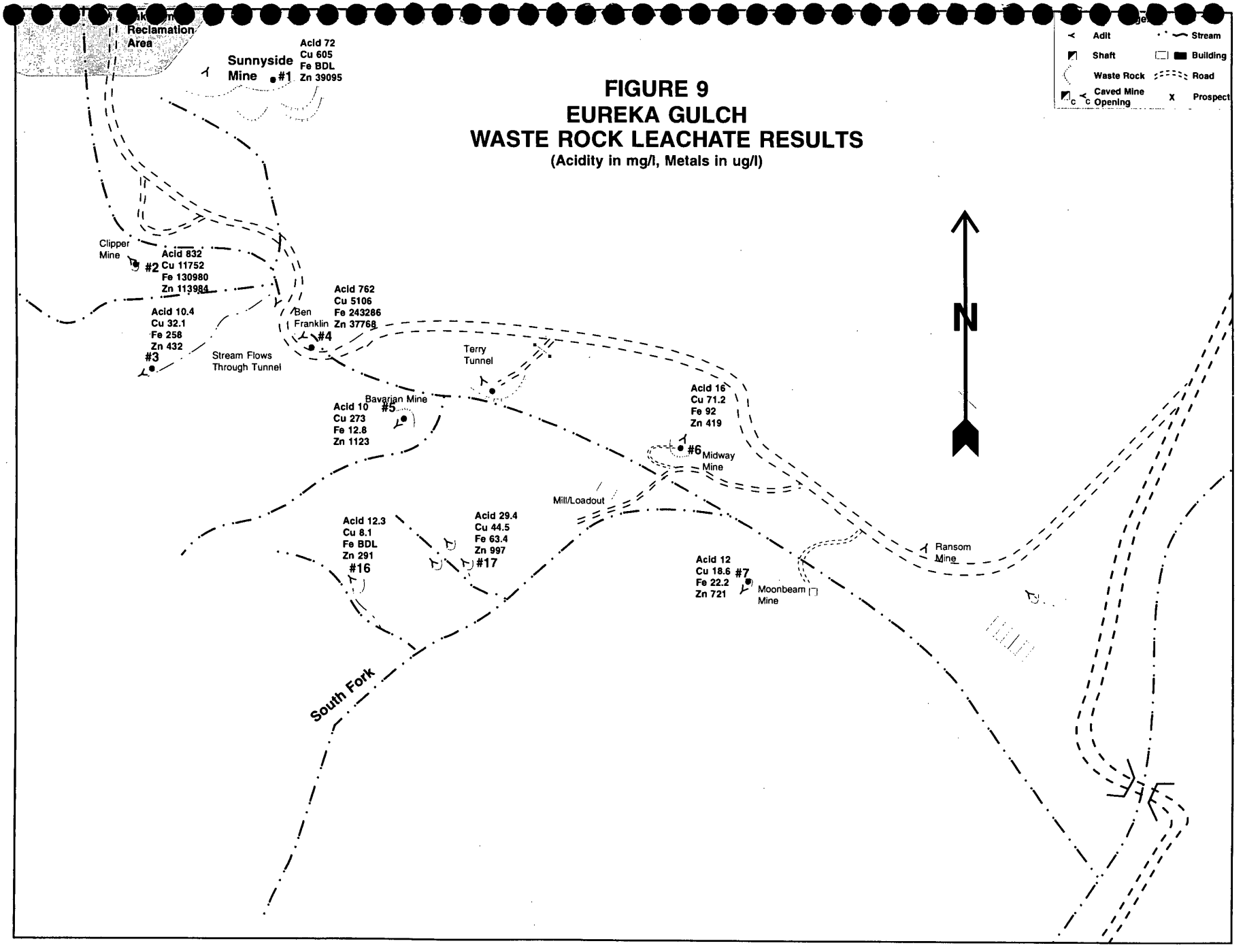


FIGURE 10
HOWARDSVILLE AREA
WASTE ROCK LEACHATE RESULTS
(Acidity in mg/l, Metals in ug/l)

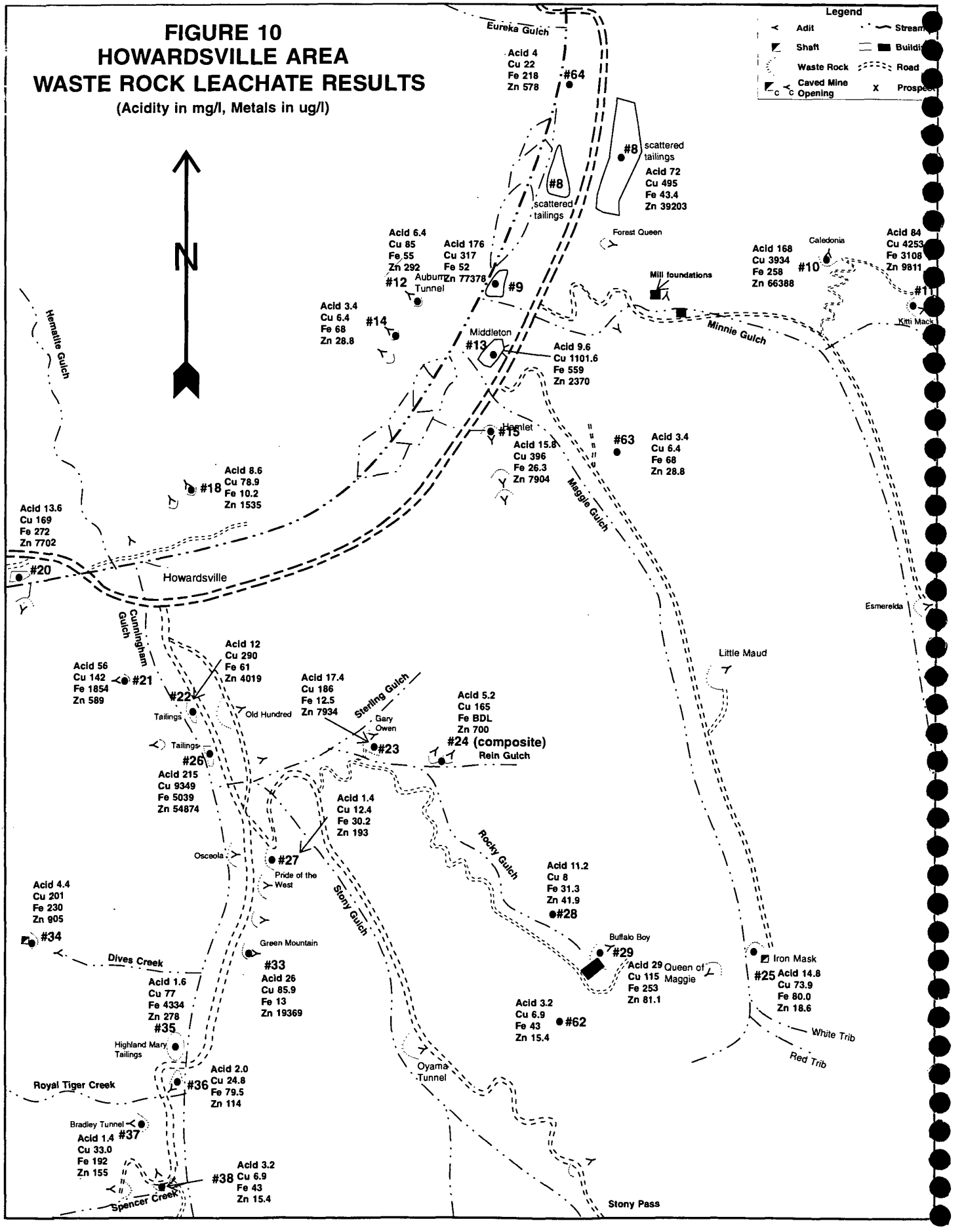
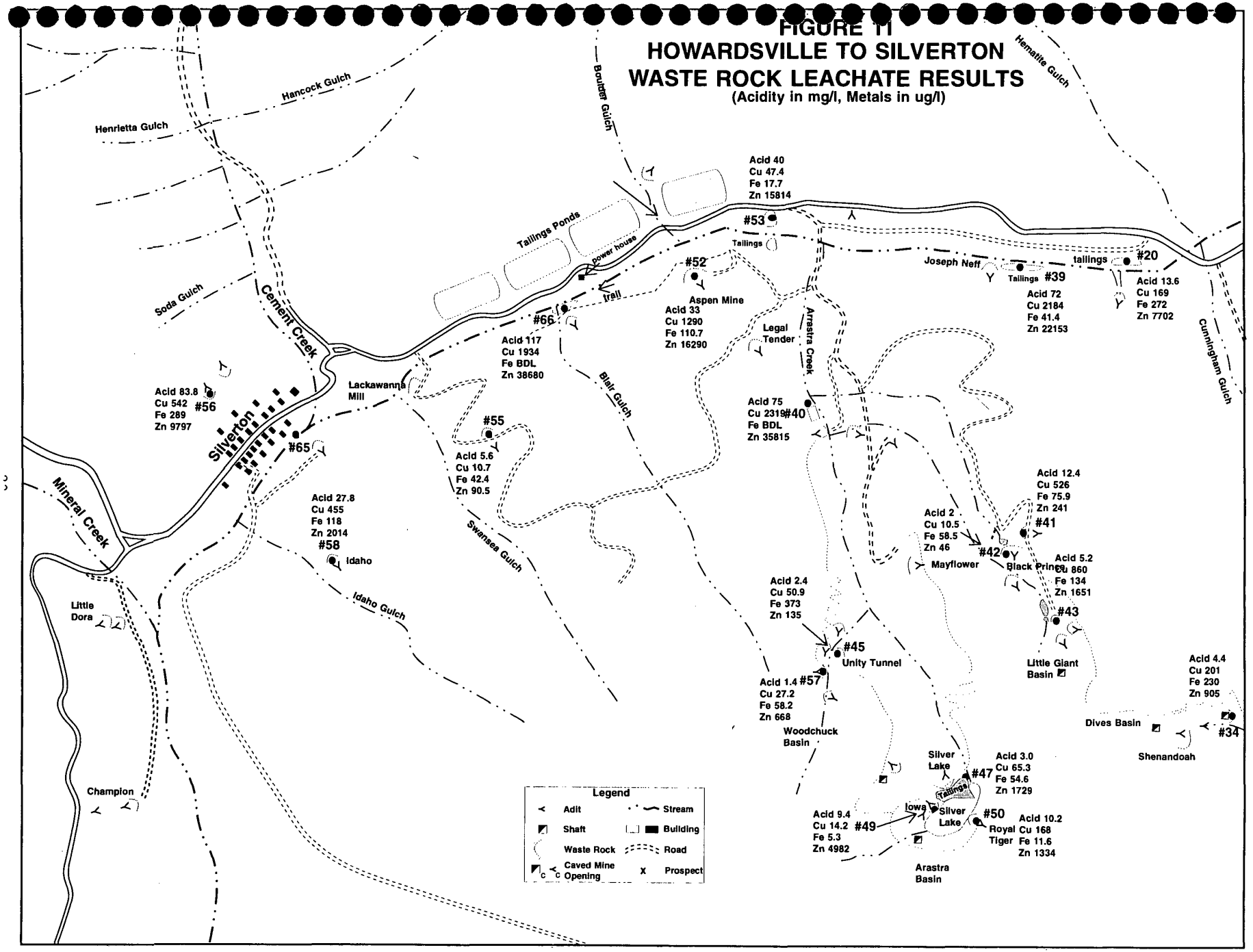


FIGURE 11
HOWARDSVILLE TO SILVERTON
WASTE ROCK LEACHATE RESULTS
(Acidity in mg/l, Metals in ug/l)



WATERSHED CHEMISTRY

Water quality in the Animas River below Eureka is much better than found in Mineral Creek, Cement Creek and the Animas River above Eureka. Most of the tributaries below Eureka have water quality good enough to support aquatic life. However, there are some areas within the Animas watershed below Eureka that do have poor water quality. The water chemistry in the Animas River below Eureka is controlled by the varying geology of the area.

Water samples were tested for the concentration of many different metal types, but zinc, iron, cadmium and copper are thought to be the principal metals impacting aquatic life in the Animas River. Copper concentrations are generally higher in the Animas during high-flow while iron, cadmium and zinc concentrations are generally the highest during low-flow. During low-flow, copper concentrations are generally below detection limits downstream of Howardsville.

Iron plays a minor role in the watershed chemistry of the Animas River below Eureka, although staining of the streambed, especially near Howardsville is the most visible sign of heavy metals loading. Manganese staining is prevalent between Eureka Gulch and Maggie Gulch. Most of the black manganese staining is due to remnants of tailings from the old Sunnyside Mill at Eureka.

ANIMAS IN-STREAM ZINC LOADING

For the purposes of this discussion, all zinc loading is tied to sampling station LA-9. Between sampling stations LA-9 and A-68, a large portion of the dissolved zinc was found to have precipitated. The total zinc between these two stations dropped slightly, while the dissolved zinc dropped dramatically. The table below shows the relative percentages of the total and dissolved zinc load measured at sampling site LA-9 that comes from the various tributaries and sources along the main stem of the Animas River.

Table 2. Zinc Loading from Tributaries of Animas River Below Eureka

	Percent of Zinc Load at Station LA-9			
Source	Low-Flow Dissolved	High-Flow Dissolved	Low-Flow Total	High-Flow Total
Animas River above Eureka	29.4	33.7	32.0	31.6
Eureka Gulch	7.0	12.0	7.0	11.3
Minnie Gulch	0.5	0.1	0.1	0.2
Maggie Gulch	0.6	BDL	0.1	BDL
Cunningham Gulch	1.5	1.2	1.8	3.9
Hematite Gulch	0.1	0.1	0.1	0.1
Arrastra Gulch	3.5	2.8	3.3	2.2
Boulder Gulch	0.4	0.5	0.3	1.0
Blair Gulch	0.0	0.0	BDL	BDL
Main Stem Draining Mines	1.5	0.7	1.5	0.6
Total From Measured Sources	44.5	51.1	46.2	50.9

As can be seen from the table above, the majority of the zinc loading in the Animas River between Eureka and sampling site LA-9 comes from natural and mining sources in the main stem of the Animas River. In particular, the mill tailings at Howardsville and immediately below Eureka are major sources of zinc to the Animas River. Zinc loading and concentrations along the flow paths of the Animas River and its tributaries is discussed later in this report.

ANIMAS IN-STREAM CADMIUM LOADING

Cadmium concentrations are generally higher in the Animas River during low-flow. During low-flow, the majority of the in-stream cadmium comes from the upper Animas above Eureka. Below Eureka, there is a large input of cadmium from Eureka Gulch. Below Eureka Gulch, all the tributaries have dissolved and total cadmium concentrations below detection limits except for Swansea Gulch and Arrastra Gulch. The majority of the cadmium from Arrastra Gulch and Swansea Gulch appears to come from groundwater inflows. In the Animas River, cadmium concentrations fall through Howardsville, then increase to sampling site A-68.

During high-flow, all the tributaries have cadmium concentrations below detection limits except for Swansea Gulch, where there was a large total cadmium loading. The largest cadmium loading during high-flow was measured near the headwaters of Eureka Gulch.

ANIMAS IN-STREAM COPPER LOADING

During low-flow, copper concentrations are near detection limits throughout the Animas River, making loading analysis difficult. The low-flow data indicates that the largest loading increase occurs between sampling sites LA-8 and LA-9. However, there is only a slight increase in the copper concentration above the detection limit of 5 ug/l. It is likely that there is a source of copper in this area, but part or most of the increased load comes from other sources .

During high-flow, most of the copper loading occurs between Eureka and Howardsville. Between sampling stations UA-12 and LA-5, the copper load increased by over 10 pounds per day. The largest measured source in this area is Eureka Gulch, but Eureka Gulch can only account for approximately half of the increase. There was a slight increase in copper loading between Howardsville and Arrastra Gulch, then loading decreased to station A-68.

RECLAMATION OPTIONS

There are many different types of mining related disturbances in the Upper Animas watershed that affect water quality. A thorough understanding of the hydrologic system is necessary to determine which reclamation options would be best at a particular site. Reclamation of the area will be complicated and several reclamation options may be required at some sites to provide the most cost-effective cleanup.

One of the most complex situations involves the reclamation of mine drainages. These situations involve collection and treatment of the adit discharge. In many cases, there is more water exiting the mine than is measured at the mine adit. Some of the water flows underground through fracture systems, into the stream. A fracture-flow groundwater-minepool interaction exists because of the complex geology and extensive mining that has occurred. If a treatment system is contemplated to address the mine discharge, it will be necessary not only to understand the chemistry and hydrology of the adit discharge, but also to determine any potential groundwater loadings that leave the site through fractures. The fractured, jointed, highly altered nature of the bedrock could be allowing seepage from the mine workings to enter the groundwater system. A treatment system could work well on the adit discharge, but fail to meet metals removal goals in the stream due to unidentified groundwater pathways to the stream. In that case, simply sticking pipes into the adits would not be adequate to collect all the

water that needs to be treated. It may be necessary to re-enter the adit to some point beyond fracture influences where a grout-sealed bulkhead water-inlet can be placed to collect adit flows and prevent infiltration into the fractured bedrock.

Reclamation and treatment methods considered in this feasibility investigation include:

1) Surface Hydrologic Controls (Preventative Measures); diversion ditches, mine waste removal and consolidation, stream diversion, bulkhead seals, revegetation)

2) Passive Treatment anoxic limestone drains, settling ponds, sulfate reducing wetlands, aqueous lime injection, limestone water jet, oxidation wetlands, aeration, powered mechanical neutralization systems, dilution, electro-kinetics, and land application.

3) Subsurface Hydrologic Controls (Preventative Measures); in-mine diversion of clean flows, pre-treatment of ore bodies or mined out areas, preventing subsurface flow from entering mine workings through mine openings, faults, and other geologic structures.

A short description of each method is given below.

SURFACE HYDROLOGIC CONTROLS

Most hydrologic controls are preventative measures in that they inhibit or prevent the process of acid formation and/or heavy metal dissolution. If it is possible to prevent water from entering a mine, or coming into contact with sulfide ores or wastes, this can be the best, most cost effective reclamation approach. Unfortunately, very few cases are found where preventative measures can be effectively implemented to completely prevent mine drainage.

Diversion ditches are effective where run-on water is degraded by flowing over or through mine waste, or into mine workings. Diversion ditches can also be used to intercept shallow ground water that may enter mine waste. In some cases, mine discharge can be improved by flowing through the waste rock. Mine drainage must be sampled above and below a waste rock pile to determine whether the waste rock is actually degrading the water quality.

Mine waste removal and consolidation is effective where there are several small mining waste piles in an area, or where there is a large pile in direct contact with flowing water. The method is simply to move reactive material away from water sources.

Stream diversion is similar to mine waste removal and consolidation. It involves moving the water sources away from reactive materials. In most cases, it is usually preferable to move mining waste rather than move the stream, since the relocated stream can require considerable maintenance, particularly following high flow events.

Bulkhead Seals are another type of preventative measure. For most inactive mines, bulkhead seals are expensive and require considerable geologic and engineering investigation and characterization. Sites that have simple geology, sound rock, and limited subsurface workings may be amenable to this approach. In the long term, bulkhead seals can be cost effective for these types of sites.

Revegetation is often used in combination with other hydrologic controls above. Revegetation by itself can be a very effective method of reducing heavy metals concentrations, particularly where much of the metals come from erosion of mining waste into a stream. Revegetation also

reduces the amount of water that infiltrates a waste pile, thereby reducing leachate production. The roots of growing plants also have been shown to produce carbonates through respiration.

PASSIVE TREATMENT

Anoxic limestone drains are the simplest method of introducing alkalinity into mine discharges. Anoxic limestone drains (ALD) are constructed by placing coarse limestone (3/4" - 3") inside an adit or in a fully sealed trench outside a discharging mine. In order for an ALD to function properly, the mine discharge must be devoid of oxygen. In the absence of oxygen, limestone will not become coated by iron and other metal hydroxides, which can shorten the useful life of limestone. In addition, the mine drainage should be relatively low in dissolved aluminum. Aluminum has been shown to precipitate in ALDs, causing plugging. It is theorized that very coarse limestone (4-6") should provide large enough pore spaces to minimize or prevent clogging by aluminum. The disadvantage of using larger limestone is the reduced surface area to react with the mine drainage. After the mine drainage exits the ALD, aeration causes precipitation of metals. The increase in pH due to ALDs is site specific, but generally does not exceed two standard units.

Settling ponds are often overlooked as an effective treatment method. Settling ponds are particularly effective for treating near neutral mine drainages high in total suspended solids (TSS). Aeration of a near neutral pH mine drainage by means of a series of drops, followed by a settling pond can effectively remove iron and other metals that co-precipitate with the iron. Settling ponds should be designed for a 24-hour or greater retention time wherever possible.

Sulfate reducing wetlands are often called bioreactors. These systems treat water through bacterial reduction of heavy metals. Sulfate reducing bacteria (SRBs) utilize the oxygen in sulfates for respiration, producing sulfides. The sulfides then combine with heavy metals to form relatively insoluble metal sulfides. The bacteria derive their energy from a carbon source such as cow manure or mushroom compost. There are many other substrates that are an acceptable source of carbon, but most have a low hydraulic conductivity that can result in short circuiting of the system by the formation of preferential flow paths. Sulfate reducing bacteria cannot survive in a drainage with pH below 4.5. Highly acidic drainages will require a pH increase before the effluent enters the bioreactor.

Sulfate reducing wetlands should generally not be constructed near population centers. These systems commonly produce excess hydrogen sulfide, which can cause undesirable odors up to 3 mile from the system. When initially started, organics in the substrate discolor the treated water for several months, making water quality appear, to the layman, to be worse than that entering the system.

Aqueous lime injection is a passive method to introduce neutralizing agents into mine drainage. This system requires a clean water source. Clean water is passed through a pond containing neutralizing agent, then the high pH effluent is mixed with the mine drainage before it enters a settling pond. This system can be cost effective if alkaline wastes such as kiln dusts or fly ash are available. Although still in the experimental phase, the method holds promise for some mine sites.

Limestone water jets are an aerobic method of accelerating the dissolving of limestone. In situations where mine drainage flows down a steep slope, the discharge can be piped, and the resultant head can produce a high pressure water jet. The high pressure jet can be either sprayed onto loose crushed limestone, or passed upward through a vessel containing

limestone. In both situations, the limestone does not become coated because of abrasion by the water jet, and agitation of the surrounding clasts. The system using a vessel can result in higher alkalinity in the effluent due to greater abrasion. Both system types are in the experimental phase.

Oxidation wetlands are what most people think of as "wetlands". They differ from sulfate reducing systems in that metals are precipitated through oxidation, and aquatic plants must be established. This treatment method is applicable where the pH of a mine drainage is approximately 6.5 or higher, and where metals concentrations in the drainage are primarily a problem during summer months. Aeration is an important part of this system. The plant materials provide aeration and, when they die, provide adsorption surfaces, along with sites for algal growth.

Aeration is best used where the mine drainage pH is about 6.5 or above. Aeration promotes metal precipitation through oxidation processes. Aeration can be accomplished by mechanical means, or simply by channeling the drainage over rough slopes. Mechanical methods require some source of power, which may be generated through wind, solar cells, or hydro-power. Aeration methods normally include a settling pond below the aeration component.

Mechanical injection of neutralizing agents involves a powered mechanical feeder/ dosing system for dispensing neutralizing agents. This type of system requires frequent maintenance, may produce significant quantities of metal sludges, and should be considered "semi-passive". Power for the feeder can come from wind, solar, or hydropower. At the Pennsylvania Mine in Summit County, a turbine running in the mine drainage stream demonstrated that hydropower is practical in some situations. Mechanical systems are generally considered only where there are no options for truly passive alternatives.

Any high pH material can be used in this type of system. Because of cost effectiveness and sludge characteristics, the most common neutralizing agent used is finely ground limestone.

Dilution is often overlooked as a treatment method. It can be a cost effective method of treatment, because the neutralizing agent is simply uncontaminated water. Clean water is mixed with the mine drainage in a settling pond, and the resultant pH increase initiates precipitation of metals. A drawback to this method is that the percentage of metals precipitated is significantly less than most other methods. Metals removal is site specific, but generally less than 50%. This method is most effective in removing iron, aluminum, copper, cadmium, and lead, but has only slight effectiveness for zinc and manganese.

Electro-Kinetics is a newer semi-passive method to remove metals from mine drainage. There are several forms of this treatment currently being developed. The electro-kinetic method discussed in this report uses a low-maintenance, self-regenerating resin to remove metals from mine discharge. Different metals can be separated by using ion specific resins. Electricity is used to strip metals from the resins, producing sludge, and allowing re-use of the resin.

Land Application is a method designed to use natural metals attenuation processes in soils and subsoils to remove metals. Plant uptake, evaporation and transpiration, and soil exchange capacity act to tie up and remove metals. This method is most effective where mine discharge can be spread over a large area to infiltrate into relatively thick soils or unconsolidated deposits. Drainage should be neutral or near neutral to avoid plant toxicity. This alternative is also effective for discharges with high iron and/or aluminum, and where pH is approximately 4.5 or above.

Limestone Adsorption Beds are similar to anoxic limestone drains except they work under oxygenated conditions. Limestone adsorption beds can be used to remove zinc and manganese from low iron and aluminum drainages. The mine drainage is passed over and through a French Drain composed of limestone or a mixture of limestone and rock. For this type of treatment to work, the surface area of the limestone must be maximized while maintaining the hydraulic conductivity of the drain. Durable rock can be used to maintain the hydraulic conductivity of the drain, or a mixture of large size limestone (2"+) and smaller (½" - ¾") can be used. In general, these systems should be over-designed because sedimentation will block the pores over time. Lining with filter fabric will help reduce sedimentation. A series of aeration drops can improve the performance of this system.

SUBSURFACE HYDROLOGIC CONTROLS

Subsurface Hydrologic Controls are in-mine measures that inhibit or prevent the process of acid formation and/or heavy metal dissolution into the ground or surface water system. If it is possible to prevent water from entering a mine, or from coming into contact with sulfide ores or wastes, or mixing with contaminated water plumes in the workings, this can be the best, most cost effective remediation approach, because it helps prevent the problem, rather than treating its symptoms in perpetuity. The success of most hydrologic controls depends on developing a geochemical and hydrologic understanding of the mine-groundwater interactions. Chemical characterization of inflows, and Isotopic and dye-tracer studies can be used to separate mine impacted waters from unimpacted water inflows; to determine travel times and pathways of infiltrated snowmelt and rainfall through ground-water flow systems; and to help develop conceptual understandings of geochemical processes which control the transport and fate of metals in the subsurface. These studies enhance the understanding of the sources and hydrologic pathways of waters that enter the mine workings and discharge from the mine workings through groundwater and surface pathways, and help determine how best to segregate or seal off particular water sources in the workings:

In-Mine Diversions are effective where clean groundwater inflows are degraded by flowing through drifts (veins) and stopes in the mine workings. The concept is to intercept the inflows before they come in contact with metals loading source areas in the mine, thus circumventing metals contaminant production in the mine workings/ore body. The "clean" inflows are then diverted to the surface stream through a collection and piping system. Though in many cases it may not be possible to intercept all inflows before they become contaminated through contact with the ore body, it is often possible to segregate and divert much of the groundwater inflow before it mixes with the contaminated plume. This can greatly reduce the overall quantity of polluted outflow. By significantly reducing mine discharge, it may then become cost-effective and feasible to treat the segregated contaminate plume through passive or semi-passive techniques; the effluent flow is minimized, and concentration may be adjusted for optimum system performance through dilution with part of the diverted clean flows.

Grout-sealing a fracture inflow zone at a discrete location can prevent groundwater from entering the workings, using proven, existing "ring-grouting" methods and technology. The concept for this technique is to seal water inflows through a grouting program, similar to those used to seal dam foundations, and control water inflows to active underground mining operations. Chemical or cement grout is pumped under pressure into an array of holes drilled radially out from the drift in and along the plane of the water bearing fracture or fracture zones. The grout enters and seals the fracture pathways that communicate with the mine opening. If engineered and executed correctly, the water is prevented from entering the excavation, and is

forced far enough back into the rock away from the mine workings so that it resumes its pre-mining course, flowing around the grout "curtain". Depending on conditions and the layout of the workings, care must be taken to ensure the inflows are not simply diverted to a point where they enter another part of the ore body. Ideally, the grout curtain would be in a position where no other lower or upper levels are nearby, and where numerous small fractures or one discrete structure is draining groundwater into the workings along a relatively short section of drift.

Bulkhead Seals are another type of preventive or "source control "measure. The concept is that geochemical and flow equilibrium will be reached in the groundwater, whereupon anoxic conditions in the flooded workings will prevent or reduce dissolution and transport of heavy metals. Bulkhead seals are designed to prevent discharge to surface water through the adit opening by blocking the flow with an engineered hydrologic plug, flooding the mine. For most inactive mines, bulkhead seals are expensive and require considerable geologic and engineering investigation and characterization. Sites that have simple geology, sound rock, and limited subsurface workings may be amenable to this approach.

MINE SITE CHARACTERIZATION

EUREKA GULCH

Location

Eureka Gulch is a "hanging" glacial side valley draining the north-central part of the Silverton Caldera. Eureka Gulch is a tributary to the Animas River located approximately 8 miles northeast of Silverton. Eureka Gulch drains the southern and western slopes of Hanson Peak and the northern and eastern slopes of Bonita Peak. Elevations in Eureka Gulch range from 13,454 feet on Hanson Peak to 9,840 feet at the confluence with the Animas River.

The Sunnyside mine is located in the headwaters of Eureka Gulch. There has been considerable mining in the headwaters, including some recent mining by Sunnyside Gold Corporation at the previous site of Lake Emma. The Lake Emma area is currently being reclaimed. Sampling of Eureka Gulch began below the Lake Emma Area. During the high-flow sampling, site EG-2 could not be located due to excessive snowpack. A background site (EG-2A) was instead located immediately above the effects from the Sunnyside Mine waste rock pile.

The area is characterized by rugged, steep, high alpine terrain well above timberline. Winters are long with snow depths averaging 440 inches, and the summer growing season is short. Average total precipitation for the past 3 years is 45 inches, 37 inches occurring as snowfall (SGC data).

Eureka Gulch Copper Loading

Of all the tributaries to the Animas River between Eureka and the confluence with Cement Creek, Eureka gulch is the largest source of copper loading. During low-flow, dissolved copper becomes measurable below the Ben Franklin Mine at station EG-5 (Figure 12). Dissolved copper loading increases between sampling stations EG-5 and EG-6 (Figure 13). The leachate water from the Ben Franklin Mine (ARD-1) is the largest source in this area. The copper loading

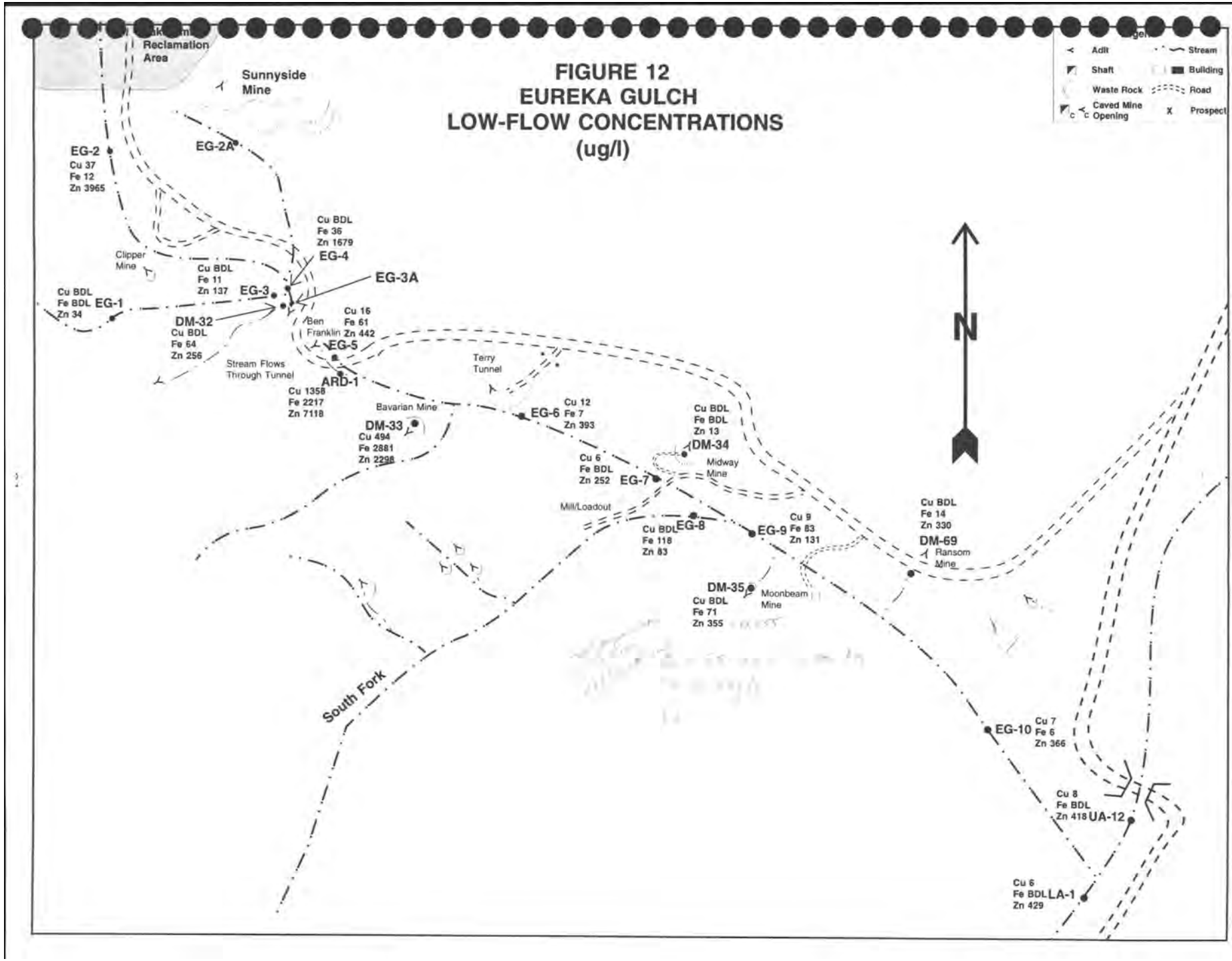


FIGURE 12
EUREKA GULCH
LOW-FLOW CONCENTRATIONS
(ug/l)
Reclamation Area
Sunnyside Mine
EG-2
Cu 37
Fe 12
Zn 3965
EG-2A
Cu BDL
Fe 36
Zn 1679
EG-4
EG-3A
Clipper Mine
Cu BDL
Fe 11
Zn 137
EG-3
Cu BDL
Fe BDL
Zn 34
EG-1
DM-32
Cu BDL
Fe 64
Zn 256
Ben Franklin
Cu 16
Fe 61
Zn 442
EG-5
Stream Flows Through Tunnel
ARD-1
Cu 1358
Fe 2217
Zn 7118
Terry Tunnel
Bavarian Mine
DM-33
Cu 494
Fe 2881
Zn 2298
EG-6
Cu 12
Fe 7
Zn 393
Cu BDL
Fe BDL
Zn 13
DM-34
Midway Mine
Cu 6
Fe BDL
Zn 252
EG-7
Mill/Loadout
Cu BDL
Fe 118
Zn 83
EG-8
EG-9
Cu 9
Fe 83
Zn 131
Cu BDL
Fe 14
Zn 330
DM-69
Ransom Mine
DM-35
Cu BDL
Fe 71
Zn 355
Moonbeam Mine
South Fork
EG-10
Cu 7
Fe 6
Zn 366
Cu 8
Fe BDL
Zn 418
UA-12
Cu 6
Fe BDL
Zn 429
LA-1
N
Adit
Shaft
Waste Rock
Caved Mine Opening
Stream
Building
Road
Prospect

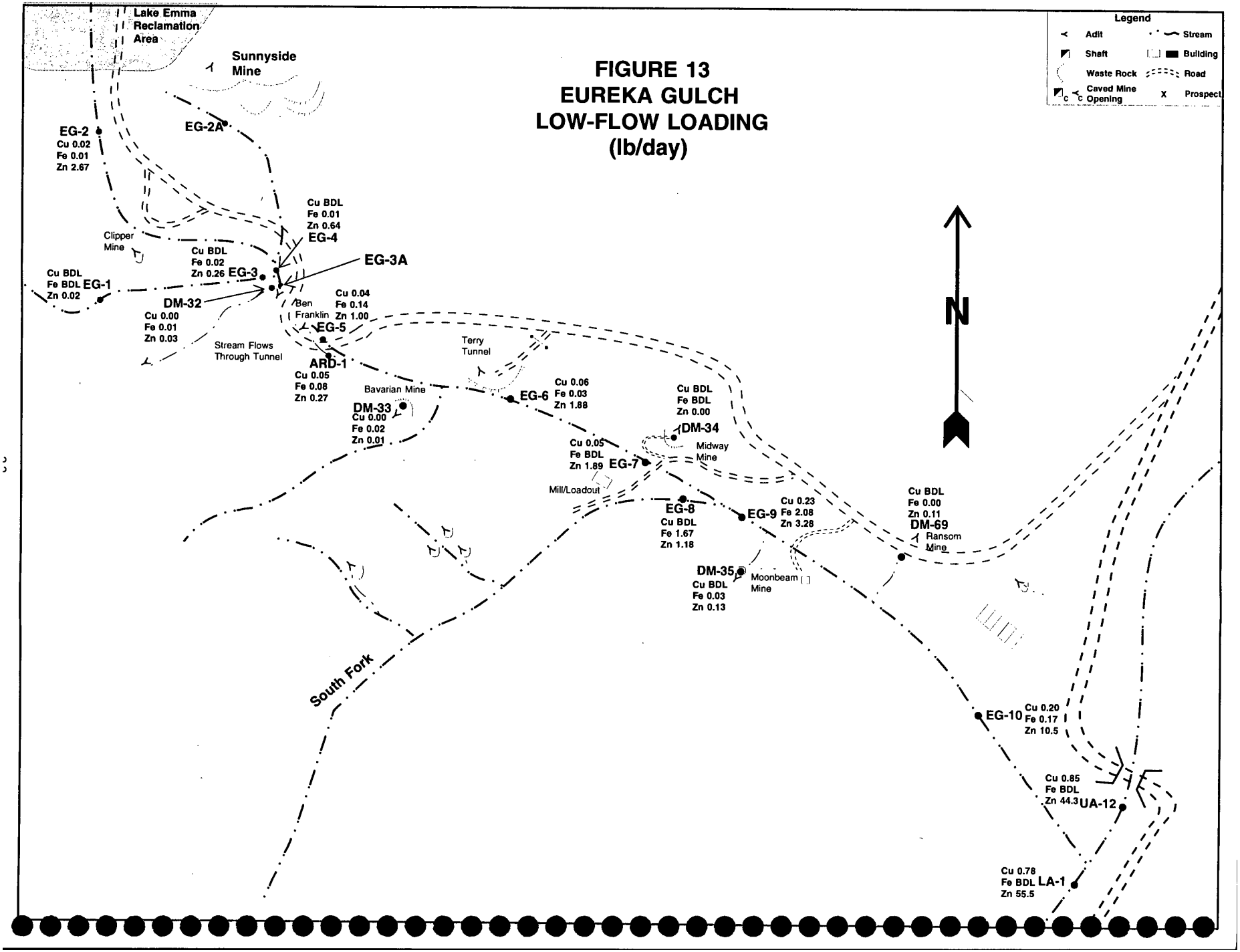


FIGURE 13
EUREKA GULCH
LOW-FLOW LOADING
(lb/day)
Legend
Adit
Stream
Shaft
Building
Waste Rock
Road
Caved Mine Opening
Prospect
Lake Emma Reclamation Area
Sunnyside Mine
EG-2
Cu 0.02
Fe 0.01
Zn 2.67
EG-2A
Cu BDL
Fe 0.01
Zn 0.64
EG-4
EG-3A
Clipper Mine
Cu BDL
Fe 0.02
Zn 0.26
EG-3
Cu BDL
Fe BDL
Zn 0.02
EG-1
DM-32
Cu 0.00
Fe 0.01
Zn 0.03
Stream Flows Through Tunnel
Ben Franklin
Cu 0.04
Fe 0.14
Zn 1.00
EG-5
ARD-1
Cu 0.05
Fe 0.08
Zn 0.27
Terry Tunnel
Bavarian Mine
DM-33
Cu 0.00
Fe 0.02
Zn 0.01
EG-6
Cu 0.06
Fe 0.03
Zn 1.88
Cu BDL
Fe BDL
Zn 0.00
DM-34
Midway Mine
Cu 0.05
Fe BDL
Zn 1.89
EG-7
Mill/Loadout
EG-8
Cu BDL
Fe 1.67
Zn 1.18
EG-9
Cu 0.23
Fe 2.08
Zn 3.28
Cu BDL
Fe 0.00
Zn 0.11
DM-69
Ransom Mine
DM-35
Cu BDL
Fe 0.03
Zn 0.13
Moonbeam Mine
South Fork
EG-10
Cu 0.20
Fe 0.17
Zn 10.5
Cu 0.85
Fe BDL
Zn 44.3
UA-12
Cu 0.78
Fe BDL
Zn 55.5
LA-1
N

from this site is greater than that found at EG-6 indicating that copper is precipitating downstream. Copper loading drops slightly through station EG-7, but increases dramatically below the confluence with the South Fork at station EG-9. The source of the increased copper loading in this area is unknown. The dissolved copper concentration in the South Fork and draining mine DM-34 were below detection limits. This area should be investigated further to determine whether the copper loading source can be identified. From station EG-9, dissolved copper loading decreases through precipitation to the confluence with the Animas River.

During high-flow, dissolved copper concentration and loading from the headwaters is high (Figures 14 and 15). The relatively un-mined tributary at station EG-1 has a dissolved copper load of over 1 pound per day. Below the headwaters confluence at station EG-3A, the dissolved copper load increases to 1.25 pound per day. There is an increase in dissolved copper loading of almost 1 pound per day below the Ben Franklin Mine at station EG-5. As found during low-flow, there is an increase in dissolved copper loading between stations EG-5 and EG-6. Virtually all this loading increase can be attributed to leaching of the Ben Franklin Mine waste rock. Copper loading continues to increase downstream to the confluence with the Animas River. The source of very little of this increase was identified in this study. The largest unidentified increase in dissolved copper loading was between sampling stations EG-7 and EG-9.

Eureka Gulch Zinc Loading

Of all the tributaries to the Animas River between Eureka and the confluence with Cement Creek, Eureka gulch is the largest source of zinc loading. During low-flow, dissolved zinc loading from the Lake Emma area is over 2.5 pounds per day (Figure 13). The dissolved zinc load decreases to approximately 1 pound per day at station EG-5. Dissolved zinc loading increases downstream to the confluence with the Animas River, while the dissolved zinc concentrations decrease to station EG-9. The source of the increased zinc load between stations EG-5 and EG-9 are the tributaries and draining mines. However, between stations EG-9 and EG-10, there is an increase of over 7 pounds of dissolved zinc per day that was not identified by this study. There also an increase in dissolved zinc concentration between stations EG-9 and EG-10. This area should be investigated to determine whether the source can be identified.

During high-flow, dissolved zinc loading from the headwaters including the Lake Emma area and the relatively un-mined area measured by station EG-1 is high (Figure 15). Below the confluence of the headwaters streams at station EG-3A, the measured zinc load was 198 pound per day. The loading at station EG-3A is thought to be an anomalous reading because adding the loadings from the tributaries results in a similar loading to that found at station EG-5. Zinc loading increases between stations EG-5 and EG-6, while zinc concentrations decrease (Figures 14 and 15). The principle source of the zinc loading is believed to be the added flow from the McCarty Basin tributary. Between stations EG-6 and EG-7, where the tributary from Parsons Gulch enters, the dissolved zinc concentration and dissolved zinc load drop slightly. Between stations EG-7 and EG-9 where the South Fork joins Eureka Gulch, there is a slight increase in dissolved zinc loading, but dissolved zinc concentration drops dramatically. From station EG-9 to the confluence with the Animas River, the dissolved zinc concentration falls slightly, but there is a loading increase of approximately 11 pounds. A portion of this increase in loading can be explained by inflows from small tributaries, but as during low-flow, there is a large unexplained loading in this stream segment, which should be investigated.

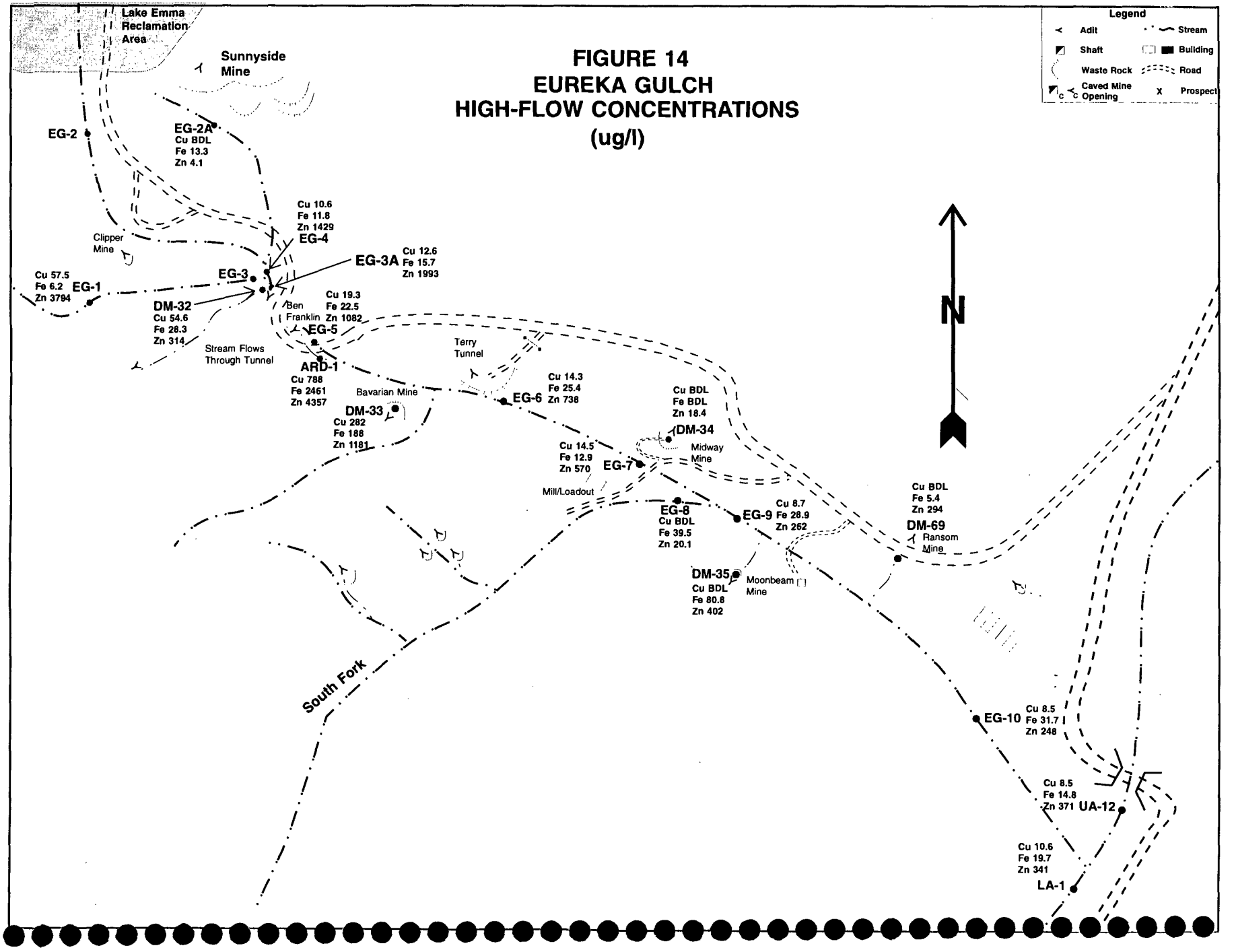


FIGURE 14
EUREKA GULCH
HIGH-FLOW CONCENTRATIONS
(ug/l)
Legend
Adit
Stream
Shaft
Building
Waste Rock
Road
Caved Mine Opening
Prospect
Lake Emma Reclamation Area
Sunnyside Mine
EG-2
EG-2A
Cu BDL
Fe 13.3
Zn 4.1
Cu 10.6
Fe 11.8
Zn 1429
EG-4
Clipper Mine
EG-3A
Cu 12.6
Fe 15.7
Zn 1993
EG-3
Cu 57.5
Fe 6.2
Zn 3794
EG-1
DM-32
Cu 54.6
Fe 28.3
Zn 314
Stream Flows Through Tunnel
Ben Franklin
Cu 19.3
Fe 22.5
Zn 1082
EG-5
ARD-1
Cu 788
Fe 2461
Zn 4357
Terry Tunnel
Bavarian Mine
Cu 14.3
Fe 25.4
Zn 738
EG-6
DM-33
Cu 282
Fe 188
Zn 1181
Cu BDL
Fe BDL
Zn 18.4
DM-34
Midway Mine
Cu 14.5
Fe 12.9
Zn 570
EG-7
Mill/Loadout
EG-8
Cu BDL
Fe 39.5
Zn 20.1
Cu 8.7
Fe 28.9
Zn 262
EG-9
Cu BDL
Fe 5.4
Zn 294
DM-69
Ransom Mine
DM-35
Cu BDL
Fe 80.8
Zn 402
Moonbeam Mine
South Fork
EG-10
Cu 8.5
Fe 31.7
Zn 248
Cu 8.5
Fe 14.8
Zn 371
UA-12
Cu 10.6
Fe 19.7
Zn 341
LA-1
N

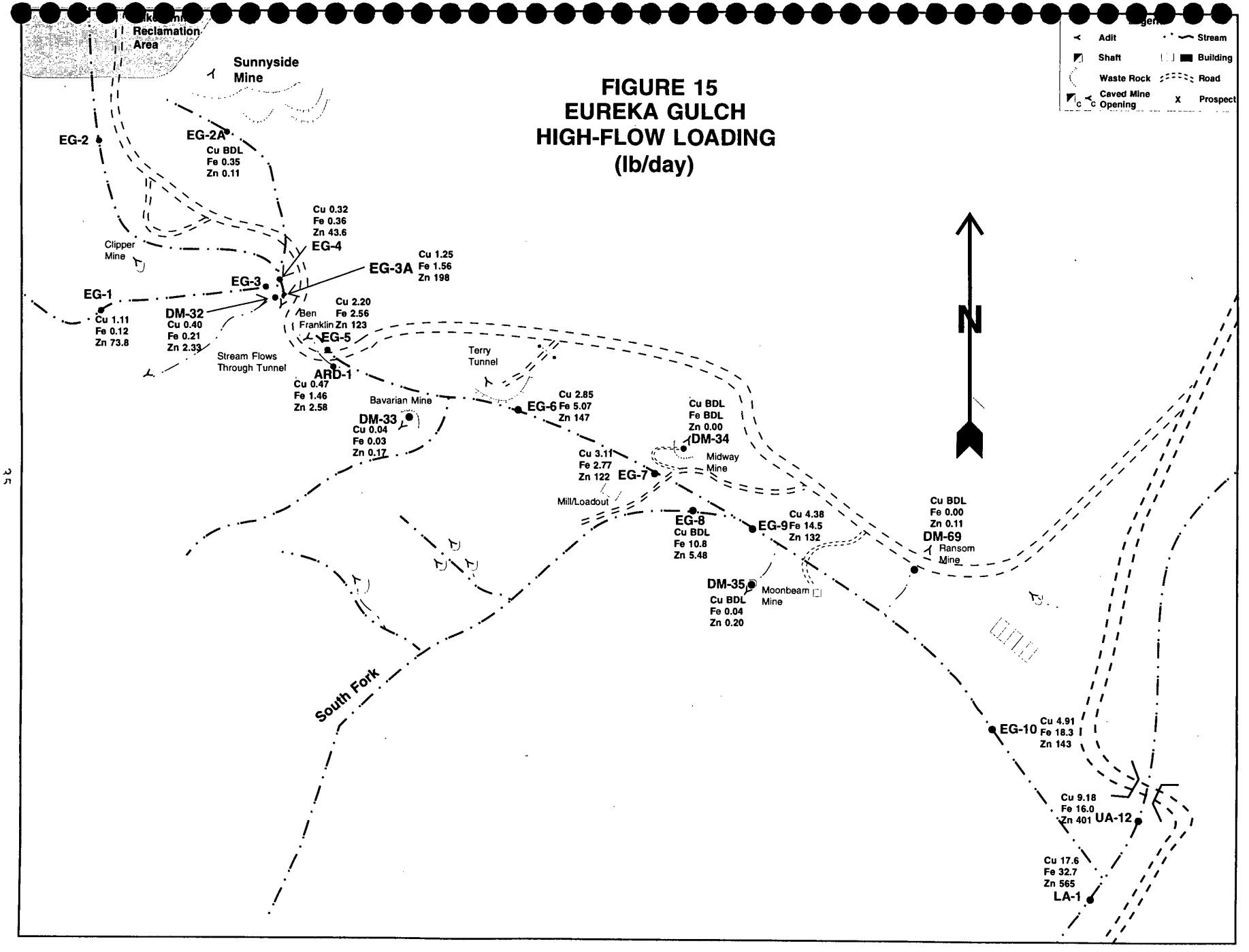


FIGURE 15
EUREKA GULCH
HIGH-FLOW LOADING
(lb/day)
Reclamation Area
Sunnyside Mine
EG-2
EG-2A
Cu BDL
Fe 0.35
Zn 0.11
Cu 0.32
Fe 0.36
Zn 43.6
EG-4
Clipper Mine
EG-3A
Cu 1.25
Fe 1.56
Zn 198
EG-3
EG-1
Cu 1.11
Fe 0.12
Zn 73.8
DM-32
Cu 0.40
Fe 0.21
Zn 2.33
Ben Franklin
Cu 2.20
Fe 2.56
Zn 123
EG-5
Stream Flows Through Tunnel
ARD-1
Cu 0.47
Fe 1.46
Zn 2.58
Terry Tunnel
Bavarian Mine
DM-33
Cu 0.04
Fe 0.03
Zn 0.17
EG-6
Cu 2.85
Fe 5.07
Zn 147
Cu BDL
Fe BDL
Zn 0.00
DM-34
Midway Mine
Cu 3.11
Fe 2.77
Zn 122
EG-7
Mill/Loadout
EG-8
Cu BDL
Fe 10.8
Zn 5.48
EG-9
Cu 4.38
Fe 14.5
Zn 132
DM-35
Cu BDL
Fe 0.04
Zn 0.20
Moonbeam Mine
Cu BDL
Fe 0.00
Zn 0.11
DM-69
Ransom Mine
South Fork
EG-10
Cu 4.91
Fe 18.3
Zn 143
Cu 9.18
Fe 16.0
Zn 401
UA-12
Cu 17.6
Fe 32.7
Zn 565
LA-1
N
Adit
Shaft
Waste Rock
Caved Mine Opening
Stream
Building
Road
Prospect

Eureka Gulch Cadmium Loading

During low-flow and high-flow, dissolved cadmium concentration and load was the highest in the headwaters below the headwaters from the Lake Emma site. In general, dissolved cadmium loading decreased downstream to the confluence with the Animas River. The one exception is that there was a large loading increase between sampling sites EG-9 and EG-10 during low-flow. This area should be investigated to determine whether there is an unknown source of cadmium.

Geologic Setting

Upper Eureka Gulch lies in the north-central part of the Silverton Caldera, across the southern margin of the Eureka Graben, described above. The graben is bounded by the Sunnyside fault on the north, which joins the Ross Basin Fault near Lake Emma at the Sunnyside Mine in the upper headwaters of Eureka Gulch. The southern margin is bounded by the Toltec Fault, which cuts across Eureka Gulch at the Terry Tunnel site.

Rhyolite flows within the graben are down-dropped relative to rock outside the graben. From above the Terry Tunnel, upper mountain slopes on the valley walls are composed of pyroxene andesite and the Henson Member of the Silverton Volcanics. South of the Terry Tunnel, and along the lower valley slopes downstream of Lake Emma, the Burns Formation sequence of dacite and rhyodacite flows comprises the peaks and valley walls on down to Eureka. Hydrothermally altered outcrops of the underlying Eureka rhyolite ash-flow tuff can be seen in the mouth of the canyon of Eureka Gulch at the Eureka Mill site. This pyritized hydrothermal alteration zone continues northwards on the main Animas valley walls at Eureka, as indicated by the brilliant orange and red staining imparted to the outcropping rock, and talus deposits.

A breccia pipe or collapse structure lies on the eastern slopes of Bonita Peak in the vicinity of Lake Emma (Luedke and Burbank, 1987). This structure consists of a zone of silicified, brecciated rock enclosed by a series of localized concentric ring fractures, however, it is not as heavily mineralized as similar structures in the Prospect Gulch and Red Mountain areas. Mines and prospects in Eureka Gulch developed and explored the numerous mineralized structures related to the Eureka Graben, including the bounding Toltec and Sunnyside fault zones.

Surficial deposits mantle much of the valley and mountain slopes in Eureka Gulch. Talus, rock glaciers, glacial till, colluvium, and a large landslide deposit cover the steep side slopes in the upper basin above the Terry Tunnel. Extensive talus aprons and fans lie along the steep valley walls of the lower gulch, and alluvium has been deposited along the valley floor from the confluence of the South Fork to the canyon above Eureka.

Eureka Gulch Site Descriptions

Mine sites in this area selected by DMG and ARSG for reclamation feasibility studies include: the Sunnyside Mine; the Clipper Mine sampled as waste rock site #2; a draining prospect and group of small prospects sampled as site DM-32; the Ben Franklin Mine; the Bavarian Mine; the Midway Mine site; two unknown draining mines in the South Fork; the Moonbeam Mine; and the Ransom Mine. These sites are shown on Figure 3. Most of the mines are situated on privately owned patented mining claims. Coordinates of each site are given in the individual site descriptions, which follow below.

The Midway Mine and the Ransom Mine are insignificant sources of heavy metals. The Midway Mine, located east of the confluence of Eureka Gulch and the South Fork, produces less than 2 grams of dissolved metals per day. The Midway Mine drainage, sampled as site DM-34, may be improving the water quality in Eureka Gulch by dilution and by addition of hardness. The hardness of the drainage was over 600 mg/l during both high-flow and low-flow. Some metals may be leached from the waste rock, but the flow path across the waste pile appears to be well sealed.

The Ransom Mine, located approximately 300 yards north of the Eureka Mill foundation, produces less than 70 grams of dissolved metals per day. The mine drainage flows from a culvert over a steep slope into Eureka Gulch. The zinc concentrations of this drainage are slightly above the concentration in Eureka Gulch, but treatment of the drainage would be problematic because of the surrounding, near-vertical terrain. There is no mine waste at this site. This mine has been reported to be bulkheaded. The flow varies very little between high-flow and low-flow.

Sunnyside Mine

Location

This site is located near the headwaters of Eureka Gulch, southwest of the Lake Emma site at an elevation of 12,320 feet. This site is believed to be on the Sunnyside MS 43B and Sunnyside Annex MS 1666B patented mining claim. The lowest level of the Sunnyside mine was sampled as waste rock site #1 (Figure 6). The site is located at LAT. N37°54'01.2", LONG. W107°36'42.1".

Geology and Mine Workings

The famous Sunnyside Mine occupies the area around Lake Emma in upper Eureka Gulch. This is the largest and most extensive mining operation in the entire Silverton District, with miles of workings on multiple levels through a vertical range of 3,000 feet (Burbank and Luedke, 1969). It was operated from its discovery in 1873 intermittently until closure in 1991.

Rich gold and silver ores were produced from several combined vein systems along fault systems in the Eureka Graben. The Sunnyside and No-Name veins extend from Lake Emma northeastwards into the head of Placer Gulch, where they join with the Mastodon Vein and Gold Prince workings. These structures dip southeast 75° and 80° respectively, and have been mined for over 1, 400 vertical feet, over a strike length of several thousand feet. The George Washington Vein runs along the Ross Basin Fault, northwestward through Sunnyside Saddle into Ross Basin. It dips south- southwest at 70°, and workings on it connect at depth to the Mogul Mine workings in the headwaters of Cement Creek further northwest. The ore shoot in this vein is reported to be over 1,000 feet long, and had been developed or explored for a vertical extent of over 1,700 feet.

There is extensive technical literature and numerous historical accounts and records of the Sunnyside Mine. The following brief discussion of the operation is from Burbank and Luedke, 1969. In their paper they report:

> *The Sunnyside operation started with the discovery of gold on the Sunnyside claim in 1873, and from 1875 until the early 1890's, the deposit was worked intermittently and with varying success. Treatment of the ore was by amalgamation and small stamp mills. After the*

better gold shoots in the upper workings were exhausted, J.H.Terry took over the property in about 1890, and in 1896, installed a table concentration plant yielding a lead-zinc concentrate. This operation was gradually improved and extended, and more than half a million tons of ore was treated before the property was acquired by the Sunnyside Mining and Milling Company in 1917. A 500-ton mill constructed in 1917 was the first commercial lead-zinc selective flotation plant in North America; its capacity was increased to 1,000 tons per day in 1928. The ore was delivered from the mine portal at 12,300 feet near Lake Emma to the head of the mill at 10,000 feet at Eureka by a 2 ¾-mile aerial tramway. About 2,500,000 tons of ore with a gross metal value (before treatment) of about 50 million dollars was mined during 15 active years between 1917 and 1948. The average grade of the ore feed to the mill at Eureka was 0.06 ounce gold, 3.5 ounces silver per ton, 4.3% lead,6.5% zinc, and 0.4% copper.

Plans to develop and mine the Sunnyside at depth were initiated before the company ceased mining operations in1938. At the time, preparatory work had started on a three-mile long mill-level tunnel at an altitude of 10,617 feet, to feed the mill at Eureka. This work was halted in December 1938.

In the early 1960's, Standard Metals Corporation extended the American Tunnel, at a portal elevation of 10,617 feet at Gladstone on Cement Creek, somewhat less than a mile beyond the Gold King Workings. This extension connected to the downward extension of the Washington Vein system, and a connection was completed to the older workings above.

Since the 1970s, operation of the mine has been more or less continuous, until final closure in 1991

Mine Wastes:
There are several mine waste piles located along the Sunnyside vein. The waste pile at the lowest level should be representative of the material located at the four upper levels. A large multi-level waste rock pile is located at this site. The waste rock pile contains approximately 60,000 cubic yards of coarse rock composed of country rock and rhodonite with inclusions of sphalerite and galena. There is a wetland area located directly below this waste rock pile, and a portion of the waste rock may be located on perennially saturated soils. Leachate results show that this waste rock is not highly acid forming but does contain high levels of leachable copper and lead. The results of the leachate analysis are given below

Sunnyside Mine

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb ppb	Zn ppb
4.63	72	2355	134	605	BDL	4	2182	39095

Historic Structures
The only structure remaining on this site is the concrete foundation for the tram drive. There are the remains of several tram towers located below this site. There is considerable scattered trash and remains of equipment at this site.

Water Quality Impacts
Water quality impacts from the Sunnyside Mine are believed to principally occur during spring snowmelt and summer thunderstorms when water moves through the waste rock. Metal loading from this site is difficult to quantify because of the numerous non-point sources upstream. However, a portion of the metals measured at sampling site EG-4 during high-flow came from

this site. Additional investigations will have to be conducted to determine the magnitude of the metals contribution from this mining complex.

Reclamation Options

No reclamation is currently recommended for the upper workings of the Sunnyside Mine because of poor access to these sites. There are two options for the lower waste pile: 1) Remove the entire waste pile; or 2) Grade the lower portions of the waste pile into the main body, then cement the mine waste in-place. The lower part of the waste pile is believed to rest on ground that is saturated for at least part of the year. By moving this portion, the waste should be above where ground water surfaces. If the surface of the waste pile is cemented, this should prevent water movement through the pile during snowmelt and thunderstorms. A thin veneer of waste rock can be left un-cemented to preserve the historic flavor of the site.

Clipper Mine

Location

This site is located on a relatively flat area south of the Lake Emma site at an elevation of 12,110 feet. The mine is located approximately 300 feet above the headwaters stream. This site is believed to be on the Clipper patented mining claim. This site was sampled as waste rock site #2 (Figure 6). Water quality stations EG-1 and EG-3 bracket this site (Figure 3). The site is located at LAT. N37°53'46.5", LONG. W107°36'45.0".

Geology and Mine Workings

An inclined prospect shaft bearing N. 35 ° E. was sunk down dip on the Clipper Vein, just east of the contact between the overlying Henson Formation, and upper Burns rocks (Figure 16). Bedding of volcanic flows in the Burns formation exposed in the shaft strike N. 40° W., and dip 26° SW. The overlying Henson rocks outcropping just north of the shaft strike N. 80° W., and dip 43° SW. At the shaft collar, the Clipper Vein strikes N. 65 ° W., dips 50° NE., and can be traced on surface for hundreds of feet.

The shaft is 10 ft. x 6 ft. at the collar, and 65 feet deep to debris. It appears to connect to drift workings on the vein in both directions from the shaft. The vein appeared to be between 4 and 5 feet thick where exposed in the unlined walls of the shaft. Rails lead up out of the opening onto the surface of a moderate sized dump. No water was observed in the shaft in August of 1998. A collapsed adit with a small dump and a prospect pit lie a few yards further southeast on the same vein.

Mine Wastes:

This small waste rock pile has had a profound effect on the surrounding area. A large kill zone extends for approximately 250 feet below the waste pile. The waste pile has an approximate volume of 1,100 cubic yards. The leachate analysis shows that this waste is acid forming with high quantities of leachable metals. The waste rock contains pyrite, chalcopyrite, sphalerite and galena. Selected results from the leachate analysis are given below.

Clipper Mine

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb ppb	Zn ppb
2.66	832	9805	363	11752	130980	7	2799	113984

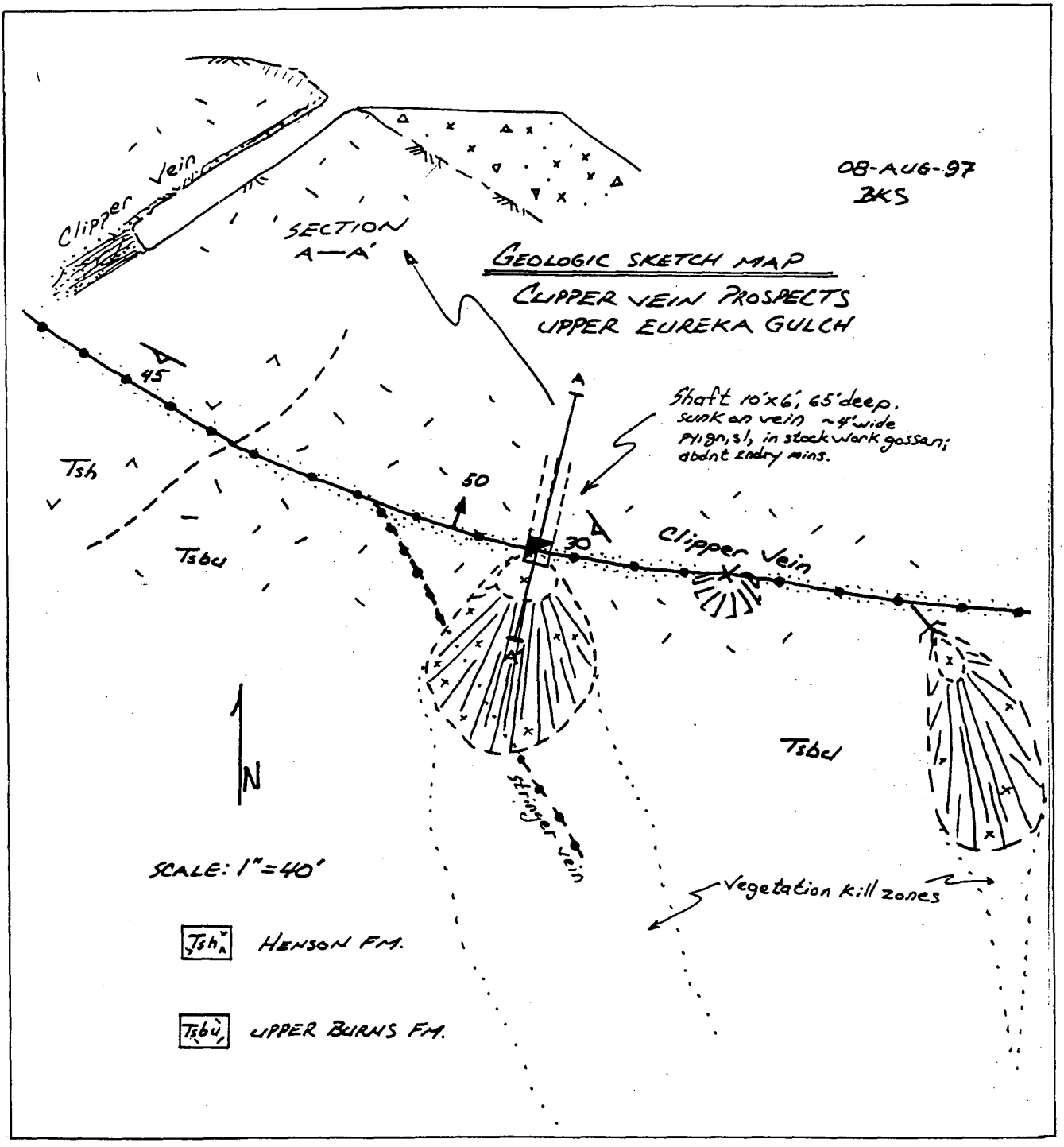


Figure 16. Geologic sketch map of prospects on the Clipper Vein, Eureka Gulch

Historic Structures
There is a collapsed loadout structure and scattered metal debris at this site.

Geologic Constraints to Reclamation
There are no site specific geologic hazard constraints to reclamation, with the exception of potential snow avalanches from the steep east face of Bonita Peak. The site appears to be beyond the runout zone of most avalanches, but larger ones could conceivably impact the area. Bedrock is at or near the surface. Boggy areas and an apparent wetland exist along the stream downslope from the site. There are some areas of thicker colluvial deposits nearby which could be used for capping materials or as disposal areas.

Water Quality Impacts
Water quality impacts from this site are from leaching of the waste rock. Because of the close proximity of the stream to this site, there is likely some direct input of metals during spring snowmelt. Compared to all the waste piles sampled in the Animas River below Eureka, this waste had the highest acidity, copper and zinc concentrations in the leachate.

Reclamation Options
This site can be reclaimed as part of safeguarding the open mineshaft. The shaft can be backfilled with a portion of the mine waste. The mine waste should be neutralized with lime, as the shaft is backfilled, to prevent groundwater contamination. After the mineshaft is backfilled, the remaining mine waste can be neutralized with lime. There is no readily available capping material for the waste rock. The vegetation kill zone can then be neutralized and revegetated.

Ben Franklin Prospect

Location
This site is located near the headwaters of the Eureka Gulch directly west of the confluence of the two major headwaters tributaries at an elevation of approximately 12,240 feet. This site is believed to be on the Ben Franklin claim. This site was sampled as water quality station DM-32 and waste rock sampling site #3 (Figures 3 & 6). The site is located at LAT. N37°53'31.5", LONG. W107°36'35.0".

Geology and Mine Workings
Workings at this site consist of a collapsed prospect adit and several prospect cuts on an outcropping sulfide vein. The draining feature is marked "#228" in blue paint on the outcrop. The vein is several feet thick, and strikes N. 85 ° E., dipping 60° N. It contains pyrite, sphalerite, enargite, and quartz, in an altered gangue. This vein is believed to be the western extension of one of the veins followed by underground workings on the Bavarian vein system, 500 yards to the east.

A complex system of fault veins branches both north and south off this main vein (Figure 17), The northern branches enclose a small graben structure, situated down slope from the prospects. Henson Formation rocks have been faulted downwards within the graben, and outcrop between the north-trending fault veins defining the structure (Burbank and Luedke, 1969). A spring estimated to be flowing 2 gpm of acidic water issues from the collapsed prospect, and flows northwards to Eureka Gulch

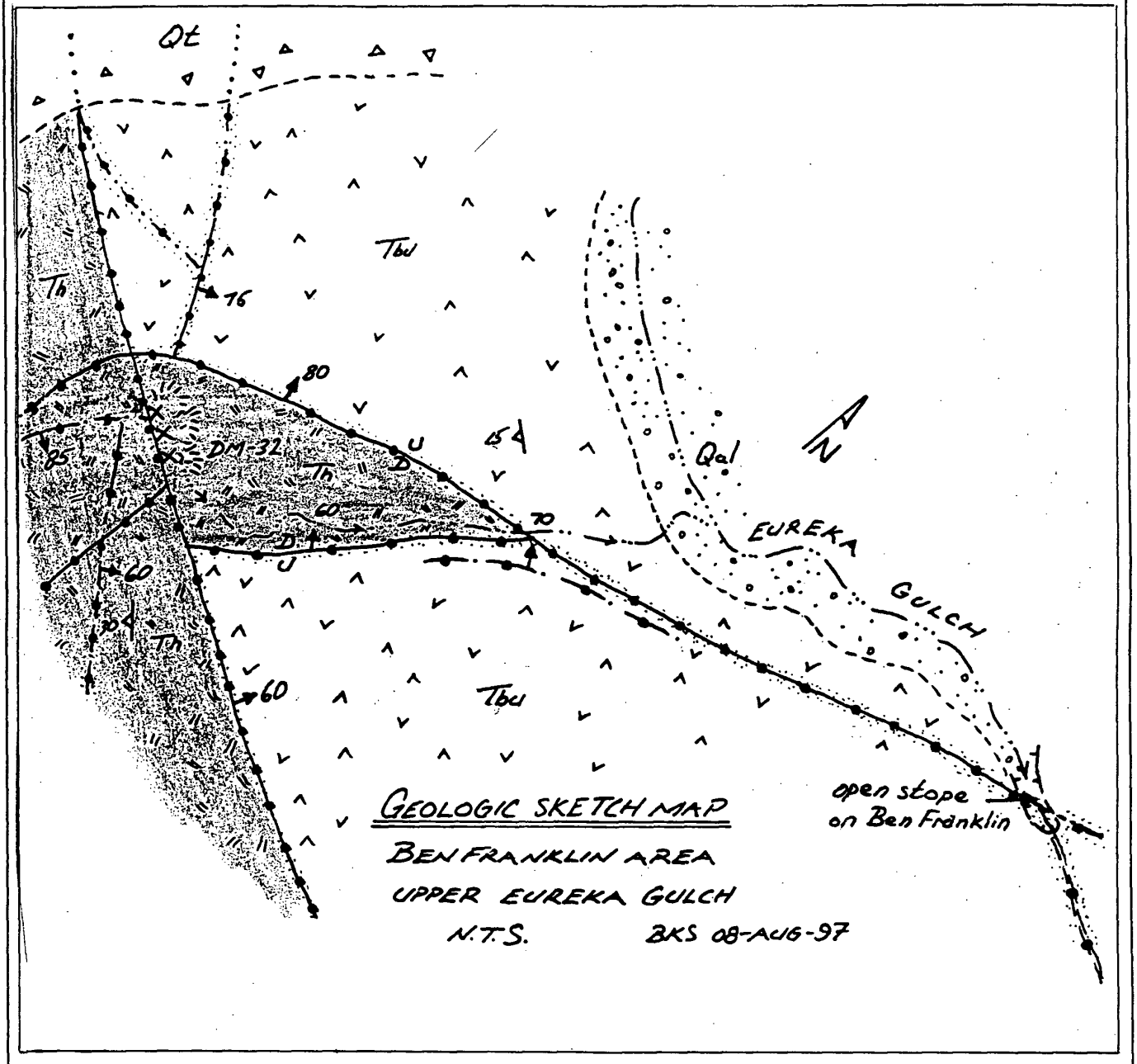


Figure 17. Geologic sketch map of the Ben Franklin Area, Upper Eureka Gulch, showing graben structure at DM-32 prospects. Th, Henson Formation; Tbu, Upper Burns Formation. Eureka Gulch enters collapsed workings and goes subsurface on Ben Franklin structure.

Mine Wastes:
The waste rock piles contain approximately 250 cubic yards of fine to coarse oxidized rock containing galena along with some pyrite and sphalerite in quartz. The waste rock in the other five prospects in this drainage is similar to that sampled at site #3. The estimated volume of waste rock in the other prospect piles is 800 cubic yards. Selected results from the leachate analysis are given below.

Ben Franklin Prospect

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb ppb	Zn ppb
4.28	10.4	80	2	32	258	1	10676	432

Historic Structures
There are no structures or equipment at this site.

Geologic Constraints to Reclamation
This site lies in extreme avalanche hazard area on the steep north slopes of Emery Peak. Bedrock outcrops at surface, and there is no existing access. Boggy areas and an apparent wetland exist along the stream down slope from the site.

Water Quality Impacts
Water quality impacts from this site come from the mine drainage, the waste rock in the stream, and natural seepage from the mineralized vein along the stream flow path. The site was sampled near the confluence with Eureka Gulch because the flow from the adit could not be adequately sampled. Water flowing from the adit quickly infiltrated the coarse waste rock. In fact, a portion of the drainage appeared to infiltrate the waste rock prior to exiting the collapsed adit. At low-flow, most of the flow in the drainage appeared to come from the draining adit, although some seepage zones were observed along the vein. During low-flow, there was a white precipitate observed in the flow path, which is suspected to be a combination of lead, aluminum and zinc. During high-flow, the flow at the sampling site was composed of snowmelt runoff and mine drainage. The prospect adit could not be located due to deep snow, so, the amount of flow from the adit could not be estimated.

The extent of water quality effects from mining are difficult to assess at this site, because the stream flows along a water-bearing mineralized vein. However, compared to all the mine drainages in the Animas River below Eureka, this site produced almost 10% of the dissolved metals at high-flow. During low-flow, the contribution was less than 0.1% of the dissolved heavy metals. The measured metal loadings from this mine are given below.

Sampling Station DM-32

Flow Regime	Diss. Al g/day	Diss. Cd g/day	Diss. Cu g/day	Diss. Fe g/day	Diss. Pb g/day	Diss. Mn g/day	Diss. Zn g/day
Low -Flow	BDL	0.04	BDL	3.44	0.10	4.74	13.78
High-Flow	2372.74	2.69	183.76	95.25	31.30	1340.18	1056.79

Reclamation Options
Reclamation of the mining disturbances at this site is straightforward. The drainage from the prospect adit should be ditched away from the mine waste pile. In addition, the mine waste should be moved out of the stream channel. Because of poor equipment access to the site, all the work should be completed using hand methods. Additionally, adding cement can solidify the small amount of waste material. The waste rock is relatively low in acidity, so neutralization is not necessary. A sand/cement mix may have to be used to solidify the waste dumps because of the coarseness of the rock.

Ben Franklin Mine

Location
This site is located immediately below the confluence of the headwaters of Eureka Gulch at an elevation of approximately 11,920 feet. Immediately below the confluence, the stream flows into a stope opening, then exits an adit opening approximately 500 feet below. This site is believed to be on the Ben Franklin claim. This site was sampled as waste rock sampling site #4 (Figure 6). The drainage from the waste rock pile was sampled as station ARD-1 (Figure 3). The site is located at LAT. N37°53'40.9", LONG. W107°36'23.2".

Geology and Mine Workings
Workings at this site consist of a breached stope associated with the Ben Franklin workings, and an open adit. The west stem of Eureka Gulch flows into a collapsed section of stope workings where they cross the streambed, then re-emerges 500 feet down slope.

The vein strikes S. 70° E., parallel to and running in the creek bed. The breached stope on this vein connects to more extensive workings on a second vein, which crosses the creek nearly perpendicularly, striking N. 60 ° E., dipping 70° N. The cross-vein is several feet thick, and contains strong sulfides. It can be traced on surface westward upslope, where it forms the northwest side of the small graben structure discussed at site DM-32 above.

Mine Wastes:
The waste rock pile from this mine is located along the stream as it exits the mine adit (Figure 18). A portion of the waste rock has been used to create a levee for the stream channel. This results in direct leaching of the waste rock as water from the stream passes through the pile. Vegetation in the flow channels below has been killed by the acidic drainage from this pile. The waste pile is estimated to contain 500 cubic yards of fine to coarse sulfide rock containing pyrite, galena and sphalerite in quartz and rhodonite. The waste rock leachate had the highest concentration of iron and aluminum, the second highest copper concentration and one of the highest zinc concentrations. Selected results from the leachate analysis are given below.

Ben Franklin Mine

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb ppb	Zn ppb
2.98	762	32293	154	5106	243286	17	1804	37768

Historic Structures
There are no structures or equipment at this site.

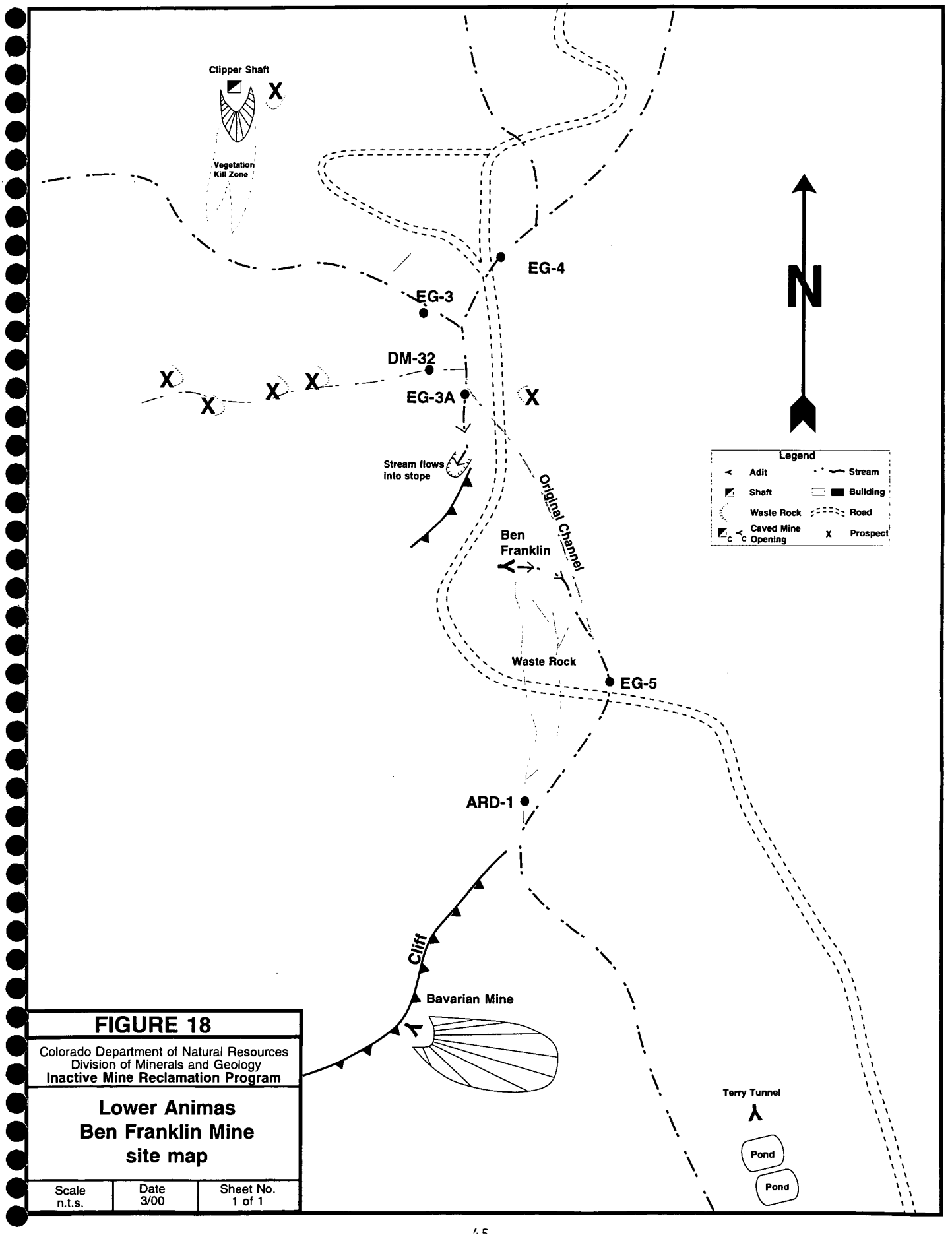


FIGURE 18

Colorado Department of Natural Resources
Division of Minerals and Geology
Inactive Mine Reclamation Program

Lower Animas
Ben Franklin Mine
site map

Scale	Date	Sheet No.
n.t.s.	3/00	1 of 1

Geologic Constraints to Reclamation
This site lies in the flood plain of Eureka Gulch, and is subject to seasonal flooding. It also is situated in an avalanche hazard zone beneath steep slopes on the north side of Emery Peak. Bedrock outcrops at the surface. Boggy areas and an apparent wetland exist just upstream from the site.

Water Quality Impacts
Identified water quality impacts from this site come from the waste rock. During low-flow, approximately ¼ pound of zinc was added to Eureka Gulch from this site. During high-flow, approximately 2.5 pound of zinc, 1.5 pounds of iron and 0.5 pounds of copper drained into Eureka Gulch from this site. Compared to all the other source sites measured, approximately 1.5% of the metals produced by mining sources comes from this site during low-flow and about 8.8% during high-flow. The measured metal loadings from this mine are given below.

Sampling Station ARD-1

Flow Regime	Diss. Al g/day	Diss. Cd g/day	Diss. Cu g/day	Diss. Fe g/day	Diss. Pb g/day	Diss. Mn g/day	Diss. Zn g/day
Low -Flow	78.28	0.34	23.25	37.96	24.98	252.20	121.87
High-Flow	844.82	3.50	212.01	662.14	139.48	0.55	1172.26

It is unknown what effect passing the stream through the mine workings has on water quality. During low-flow, there is a slight increase in zinc, copper and iron loading as the water passes through the mine workings. However, during high-flow, a zinc load loss was measured below the mine, while there was an increase in iron and copper load. Overall, this tend to indicate that additional there is an input of metals as the stream passes through the mine workings.

It should be noted that there was a net decrease in flow during both low-flow and high-flow as the stream passed through the mine workings. This may be due to the inherent error in measuring stream flow, or may indicate that some of the water is flowing through fracture systems or is flowing into other mine workings. The stream flow may be the source or a partial source of the drainage from sampling site DM-33.

Reclamation Options
Reclamation of this site should be one of the highest priorities in the Animas River below Eureka. A new stream channel should be cut to keep water out of the mine workings and to reduce leaching of heavy metals from the waste rock. In order to bypass this site, blasting may be required, because of the shallow bedrock in the area. Furthermore, in order to keep water out of the mine workings from the wetland area above the stope entrance, a water tight seal should be placed over the stope opening.

To further reduce leaching of metals from the waste rock, the waste rock should be consolidated and capped with material excavated to construct the stream channel. A portion of this material could possibly be used to cap the mine waste at sampling site #2.

Bavarian Mine

Location
This mine is located on the west side of Eureka Gulch across the canyon from the Terry Tunnel at an elevation of approximately 11,888 feet (Figure 18). This site is believed to be on the

Bavarian claim. This site was sampled as water quality station DM-33 and waste rock sampling site #5 (Figures 3 & 6). The site is located at LAT. N37°53'29.2", LONG. W107°36'19.4".

Geology and Mine Workings

An open, draining adit is driven northwestward into the Bavarian Vein system on the Toltec Fault structure. The adit is 7'w x 6' h, open, and intact. It leads in 17 feet to a branching drift, which was outcasting cool air in August (Figure 19). A significant pool of water is ponded behind a small dam of collapsed debris and muck at the portal. An old antique, carved wooden door with an ivory doorknob lies just inside the portal. Approximately 8 gpm of water flows out the portal and over the dump, before disappearing into talus above the creek. Judging from the small size of dump and extensive drifting seen, the adit may have been punched out to the cliff face to provide ventilation or drainage for a much more extensive system of workings.

The Bavarian vein complex is several feet thick where exposed in the workings. The adit is driven to an intersection of two veins, then branches to drift on both. The right drift strikes N. 5° E., and the vein dip varies from 80° to 65° W. Several small crossing stringer veins are cut nearly at right angles by this drift, in a brecciated section along the fault complex. Country rock is highly silicified. The left drift strikes S.83° W., following a vein dipping 60° N. This vein appears to be the same one prospected by several surface pits and a short adit at site DM-32. The overall mineralized structure is contained along the Toltec fault system, which forms the southern margin of the Eureka Graben. A cursory inspection suggests the workings in both directions from the portal are extensive, and undoubtedly connect with other workings in the Toltec structure.

Mine Wastes:

The waste rock piles contain approximately 2,100 cubic yards of fine to coarse rhodonite waste rock containing galena, pyrite and sphalerite. The waste rock pile covers a large area due to the near angle of repose slopes surrounding the mine. The waste rock pile extends for approximately 200 feet down the slope. The mine drainage quickly infiltrates the waste rock pile then surfaces near the bottom of the waste pile. Selected results from the leachate analysis are given below.

Bavarian Mine

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb ppb	Zn ppb
4.34	10	110	5	273	13	1	567	1122

Historic Structures

There are no structures at this site. An old antique "hotel room-style"door with an ivory knob was observed inside the adit.

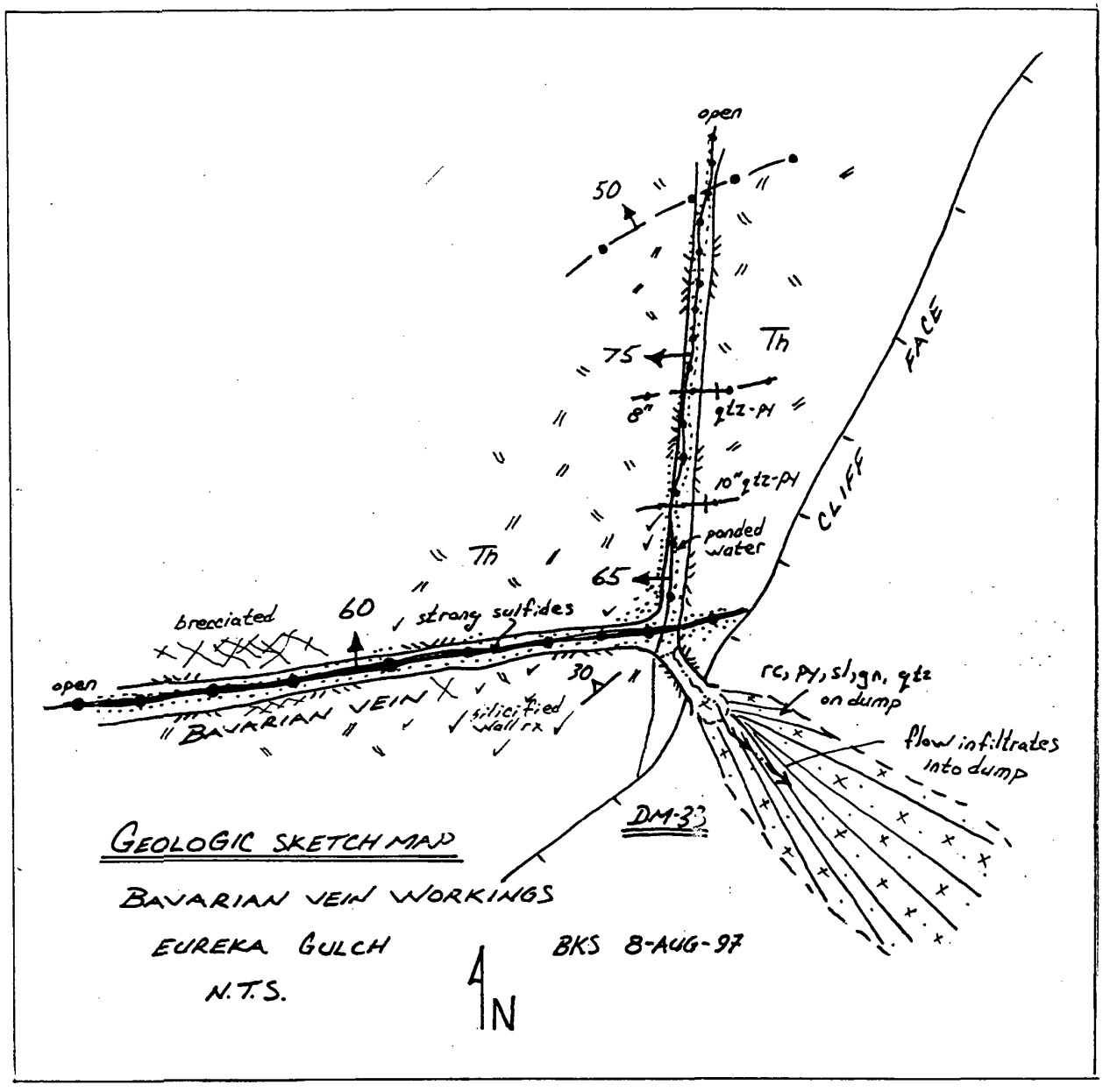


Figure 19. Geologic sketch map of the Bavarian Vein workings, Eureka Gulch

Th, Volcanic flows of the Henson Formation; arrows denote dip of veins.

Geologic Constraints to Reclamation

This site is somewhat inaccessible due to its position on a steep cliff face. There is an old trail on the slopes above leading to McCarty basin, which might be used to stage materials before lowering them down-slope on a cable-tugger system. The adit lies in an extreme avalanche hazard area on the steep east shoulder of Emery Peak. Bedrock outcrops at surface, and rock fall is also a hazard.

Water Quality Impacts

Water quality impacts from this site come from the mine drainage and the waster rock. The waste rock leachate analysis indicates that the mine drainage may pick up additional zinc and copper as it passes the waste pile. The mine drainage is an insignificant source of metals during the low-flow period, but zinc and copper loading increases at high-flow. Compared to all the other identified mining related sources of metals in the Animas River below Eureka, this site produces less than 0.1% of the metals during low-flow and less than 0.6% of the metals during high-flow. The measured metal loadings from this mine are given below.

Sampling Station DM-33

Flow Regime	Diss. Al g/day	Diss. Cd g/day	Diss. Cu g/day	Diss. Fe g/day	Diss. Pb g/day	Diss. Mn g/day	Diss. Zn g/day
Low -Flow	0.32	0.01	1.21	7.05	1.05	9.92	5.62
High-Flow	17.68	0.15	17.93	11.96	9.49	178.25	75.10

Reclamation Options

No reclamation should be done at this site until the stream is diverted around the Ben Franklin Mine above. If drainage continues to flow from the mine, a collection bulkhead should be constructed inside the mine, and the drainage should be conveyed around the waste rock pile. The drainage will probably have to be piped since the surrounding topography is too unstable for ditch construction.

No mine drainage treatment is currently recommended for this site. The steep topography severely limits the treatment methods that can be used. The cost/benefit ratio for treating this mine drainage would be extremely high. The mine workings should be investigated to determine whether all or a portion of the inflows into the mine can be sealed or diverted out the portal before the water become contaminated.

South Fork Mines

Location

Two draining mines were located in the South Fork after the water quality sampling events. Both mine drainages are located on the south-facing slope of the South Fork at an elevation of approximately 11,040 feet. The eastern site was observed to flow less than 1 gpm during September of 1999. The waste pile at this site was sampled as site #17 (Figure 6). The western adit was observed to drain approximately 100 gpm during September of 1999. The waste pile at this site was sampled as site #16 (Figure 6). Site #16 is believed to be on the Glenn claim. Site #17 is believed to be on the Mary H claim. Site #16 is located at LAT. N37°52'34.7", LONG. W107°36'04.5". Site #17 is located at LAT. N37°52'54.1", LONG. W107°35'46.1".

Mine Wastes:
The mine waste pile at site #17 contains about 400 cubic yards of waste rock. The principal sulfide found in the waste rock was chalcopyrite. Most of the waste rock is cemented with iron from the mine drainage. The waste rock at this site has high levels of copper and zinc in the leachate. This is probably due to precipitation of metals from the mine drainage. Selected results from the leachate analysis are given below.

Waste Rock #17

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb ppb	Zn ppb
3.33	29.4	350	4	45	63	751	BDL	997

The mine waste pile at site #16 contains approximately 2,000 cubic yards of yellow to light red waste rock. Most of the waste rock appears to be mineralized propylitically altered country rock. The mine drainage flow path across the waste rock has been almost completely indurated by iron precipitates. There is probably very little leaching of the waste rock by the mine drainage. Selected results from the leachate analysis are given below.

Waste Rock #16

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb ppb	Zn ppb
4.41	12.3	198	3	8	BDL	564	26	291

Historic Structures
There are no structures or equipment at either site.

Water Quality Impacts
The drainage from the western site has been sampled by the USGS. The mine drainage appears to be principally a source of iron to the South Fork. Iron precipitates are evident in the stream below this location. Some of the iron is likely due to leaching of metals from the propylitically-altered rock in the drainage above and from the drainage containing waste rock site #17.

Reclamation Options
No reclamation can currently be recommended for this site. The mine drainages should be sampled at low-flow and high-flow.

Moonbeam Mine

Location
This mine is located in lower Eureka Gulch below the confluence with the South Fork on the west side of the canyon. The mine is readily visible from the access road, because the 30-40 gallons per minute (gpm) of drainage cascades in a waterfall from the adit. The elevation of the site is approximately 10,560 feet. This site is believed to be on the Moonbeam claim. This site was sampled as water quality station DM-35 and waste rock sampling site #7 (Figures 3 & 6). The site is located at LAT. N37°52'52.6", LONG. W107°34'50.8.

Geology and Mine Workings
An open, draining prospect adit is driven due south into the canyon wall on a vein striking S. 25° W., dipping 60° to 70° NW. The adit is 4.5'w x 6' h, open, and intact. It drifts 510 ft. in from the

portal on a 12 to 18-inch-wide sulfide vein, which changes strike in several places (Figure 20). An old rusted out ore car remains just inside the portal. Approximately 30-40 gpm of water flows out the portal and over the dump, entering Eureka Gulch 300 feet further down slope. A thick deposit of iron hydroxide sludge covers the floor of the outer part of the drift.

Water was found entering the drift in two main locations. At around 250 feet in from the portal, a diffuse area of small seeps and inflows was estimated to account for about 20% of the total portal outflow. This zone may coincide with where the workings pass beneath a tributary drainage just west of the portal. This could be confirmed by a more accurate underground survey. At about 495 feet from the portal, just before reaching the face, a low-angle structure cutting the floor of the drift is gushing an artesian (pressurized; spring rises several inches above the drift floor) flow of at least 45 gpm into the workings. Based on these conditions, and if a loading analysis indicates reclamation is warranted, it may be possible to seal off this prospect and re-direct the flows back to their original pre-mining pathways.

Mine Wastes:
The waste rock piles contain approximately 1,000 cubic yards of waste rock principally composed of country rock with some galena, fluorite and sphalerite. Much of the waste pile is mixed with debris flow material from the steep drainage/avalanche chute directly above the adit. Mine waste from this site has been eroded to within 50 feet of the stream. The mine drainage flows onto the waste rock and completely infiltrates before reaching the bottom of the pile. There are no obvious signs of springs located below the mine. The drainage evidently stays subsurface until it reaches the stream in Eureka Gulch. Selected results from the leachate analysis are given below.

Moonbeam Mine

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb Ppb	Zn ppb
4.28	12	1311	6	19	22	1	31	721

Historic Structures
There is an old rusted ore car inside the adit. There are no structures or equipment, other than scattered debris outside the adit.

Geologic Constraints to Reclamation
This site is somewhat inaccessible due to its position on a steep cliff face. The adit lies in a moderately hazardous avalanche hazard area, and rock fall is also a hazard. Material could be trammed up the steep slope with a cable tugger arrangement, and grout could be pumped up slope from a staging area near the creek.

Water Quality Impacts
Water quality impacts from this site come from the mine drainage and the waste rock. The waste rock leachate analysis indicates that the mine drainage may pick up additional zinc as it passes through the waste pile. In addition, water flowing down the steep drainage may pick up additional metals during snowmelt and rainstorms. The mine drainage is a minor source of heavy metals. Compared to all the other identified mining related sources of metals in the Animas River below Eureka, this site produces less than 0.5% of the metals during low-flow and high-flow. The measured metal loadings from this mine are given below.

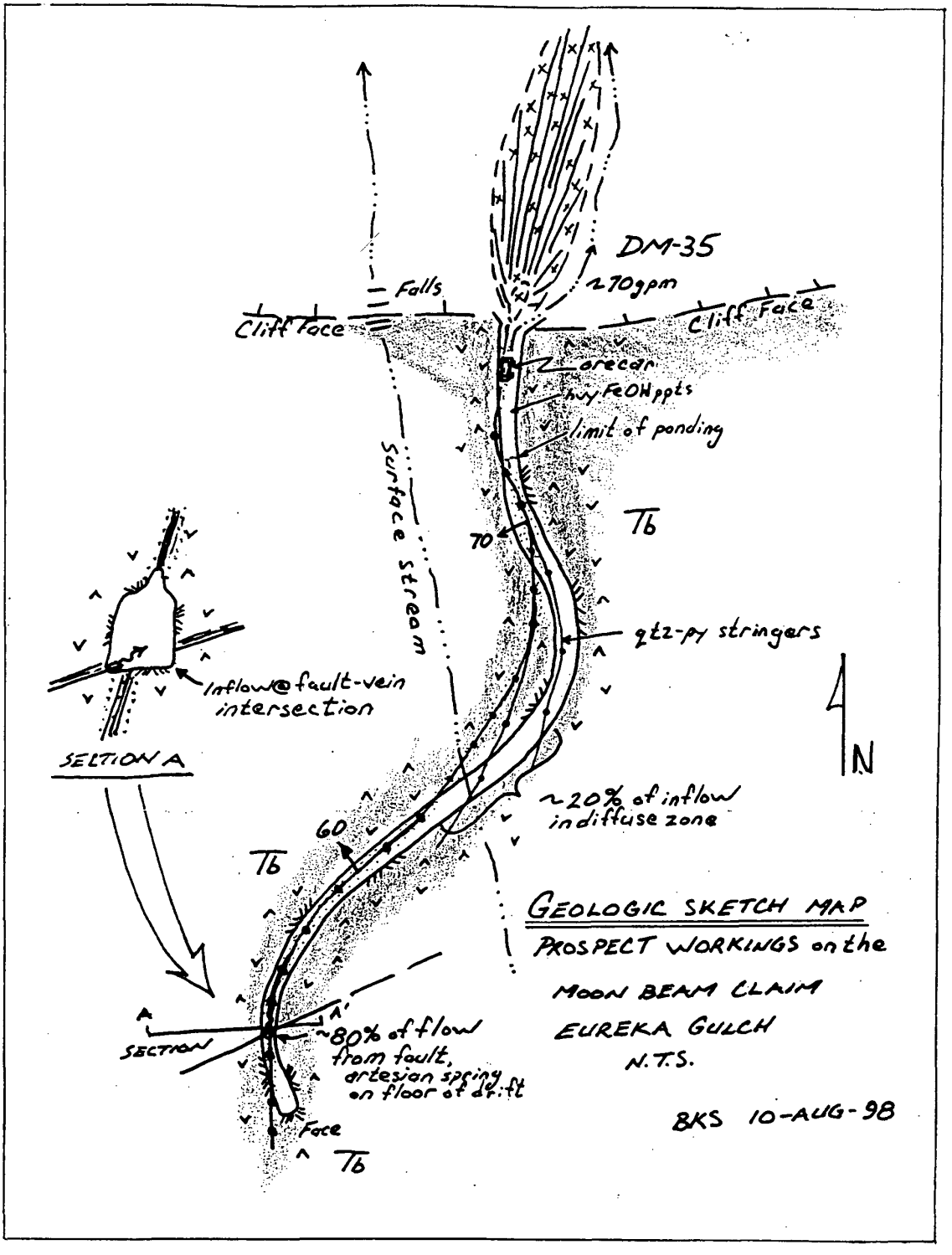


Figure 20.
Geologic sketch map of workings on the Moon Beam Claim, Eureka Gulch
Tb, Volcanic flows of the Burns Formation; arrows denote dip of veins.

Sampling Station DM-35

Flow Regime	Diss. Al g/day	Diss. Cd g/day	Diss. Cu g/day	Diss. Fe g/day	Diss. Pb g/day	Diss. Mn g/day	Diss. Zn g/day
Low -Flow	BDL	0.11	BDL	11.64	0.28	66.04	58.18
High-Flow	14.85	0.14	BDL	18.18	0.32	99.73	90.55

Reclamation Options

Since most of the mine drainage originates as an upwelling spring near the end of the mine workings, this site may be a prime candidate for bulkheading. A bulkhead can be constructed near the source of the water, limiting the amount of seepage through the surrounding rock. The grout materials will have to be pumped to the site since access is by foot only, and the steep canyon walls preclude the use of a helicopter. However, because of the low metals input from this site, and the high cost of constructing a bulkhead, reclamation of this site should be a low priority.

No reclamation of the waste rock is recommended because of the poor access to this site. Removing or stabilizing the waste rock in-place would be very costly for a minimal reduction in metals loading.

MINNIE GULCH

Location

Minnie Gulch is a tributary to the Animas River located approximately 6.5 miles northeast of Silverton. Minnie Gulch drains a roughly north-south watershed with elevations ranging from 13,215 feet on the Continental Divide above the Kitti Mack Mine to 9,820 feet at the confluence with the Animas River.

The area is characterized by rugged, steep, high alpine terrain well above timberline. Winters are long with snow depths averaging 440 inches, and the summer growing season is short. Average total precipitation for the past 3 years is 45 inches, 37 inches occurring as snowfall (SGC data).

Minnie Gulch Copper Loading

During low-flow, dissolved copper concentrations in Minnie Gulch were all below detection limits Figures 21 and 22). However, during high-flow, the dissolved copper concentration in Minnie Gulch above the confluence with the Animas River was measured at 6.5 micrograms per liter (ug/l), corresponding to a load of approximately 1.7 pound per day (Figures 23 and 24). Previous sampling by the CDPH&E did not show any measurable dissolved copper. This may be an anomalous reading.

Minnie Gulch Zinc Loading

Minnie Gulch is an insignificant source of zinc to the Animas River. The zinc concentrations above the confluence with the Animas River were all below the No Effect Concentration (Figures 21 and 23). During low-flow, there was an increase in zinc concentration and loading below the Esmerelda and Kitti Mack Mines. The source of the zinc at the Esmerelda Mine is unknown. The drainage from the Esmerelda mine had zinc concentration below the stream, and the waste rock should not be a significant source of metals. The increase in zinc

FIGURE 21
HOWARDSVILLE AREA
LOW-FLOW CONCENTRATIONS
(ug/l)

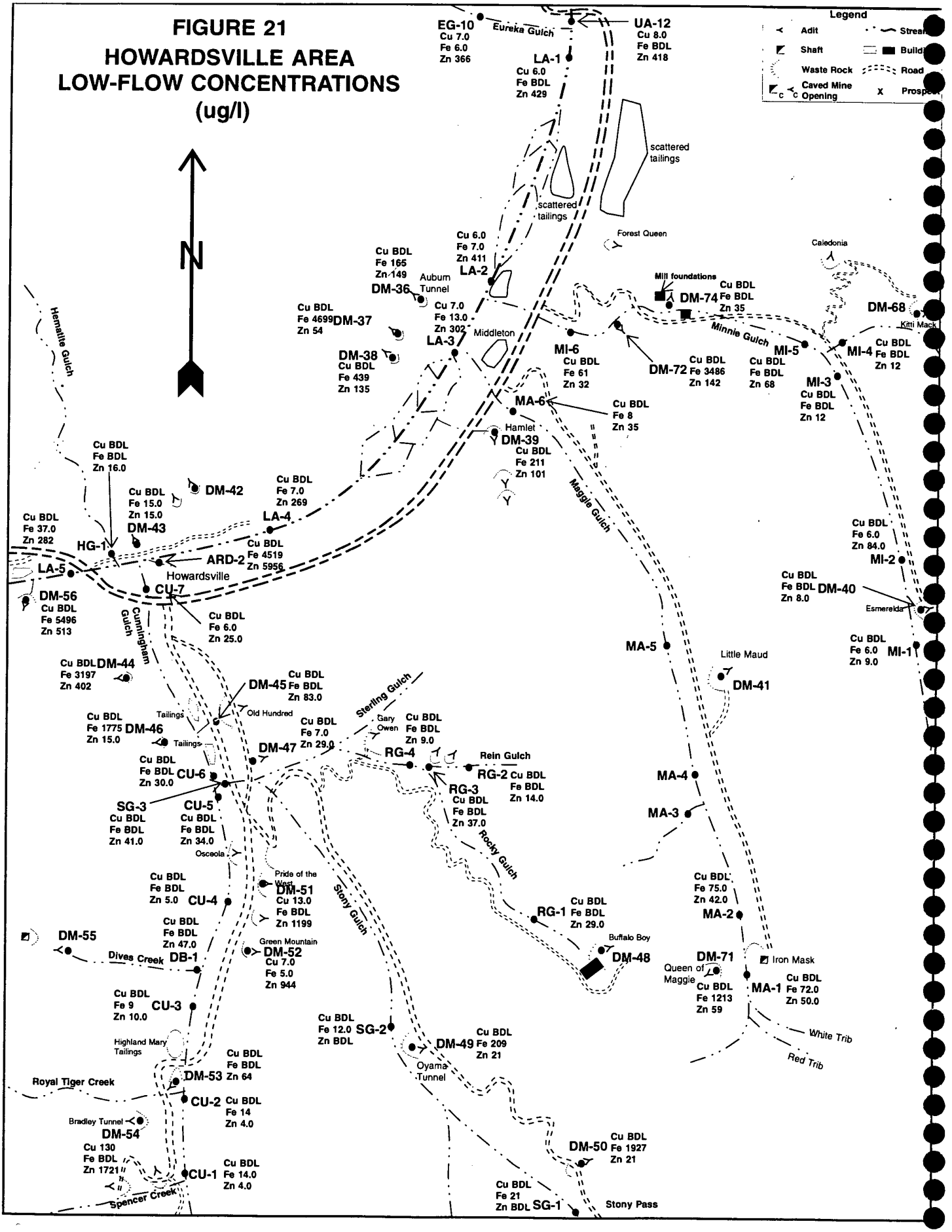


FIGURE 22
HOWARDSVILLE AREA
LOW-FLOW LOADING
(lb/day)

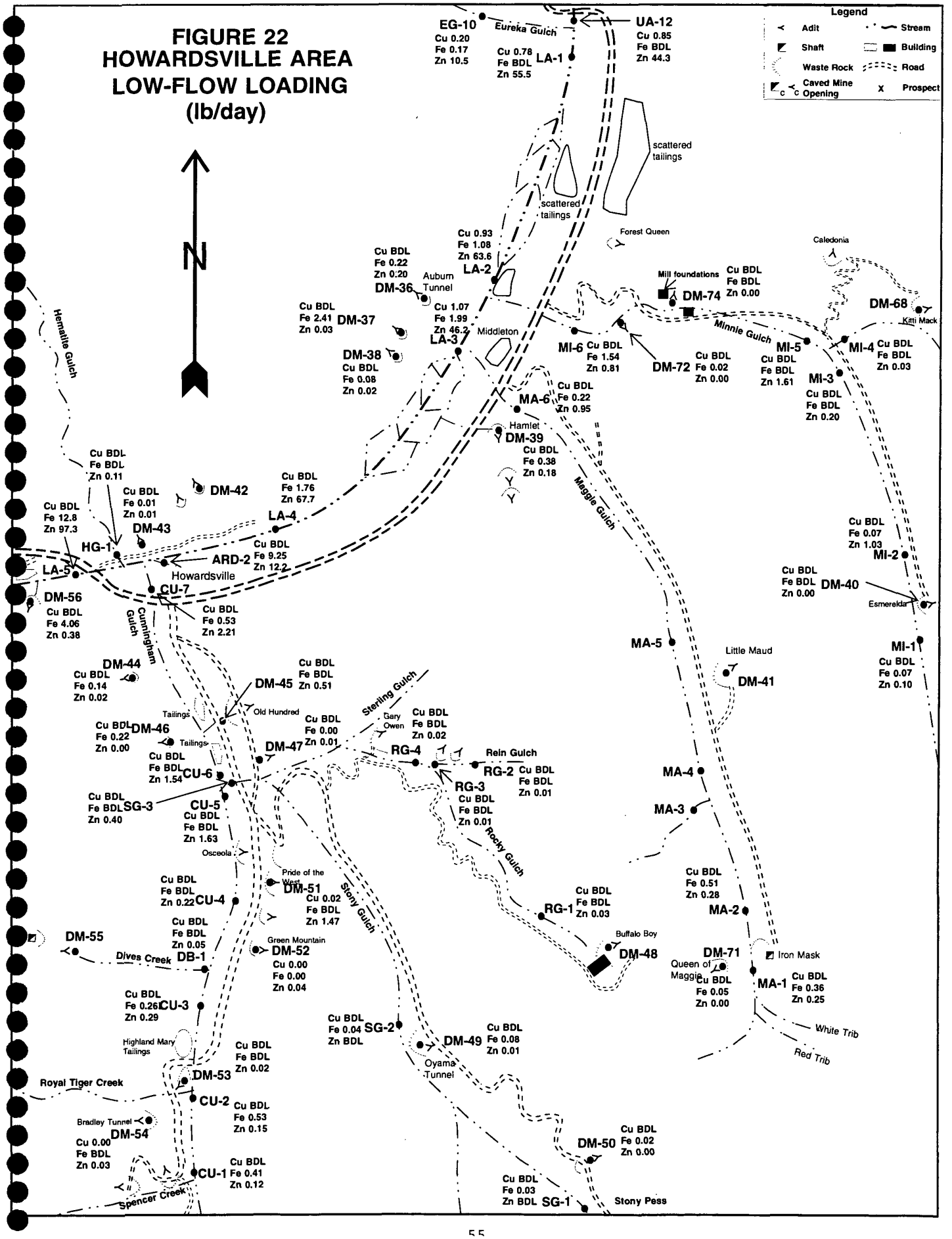


FIGURE 23
HOWARDSVILLE AREA
HIGH-FLOW CONCENTRATIONS
(ug/l)

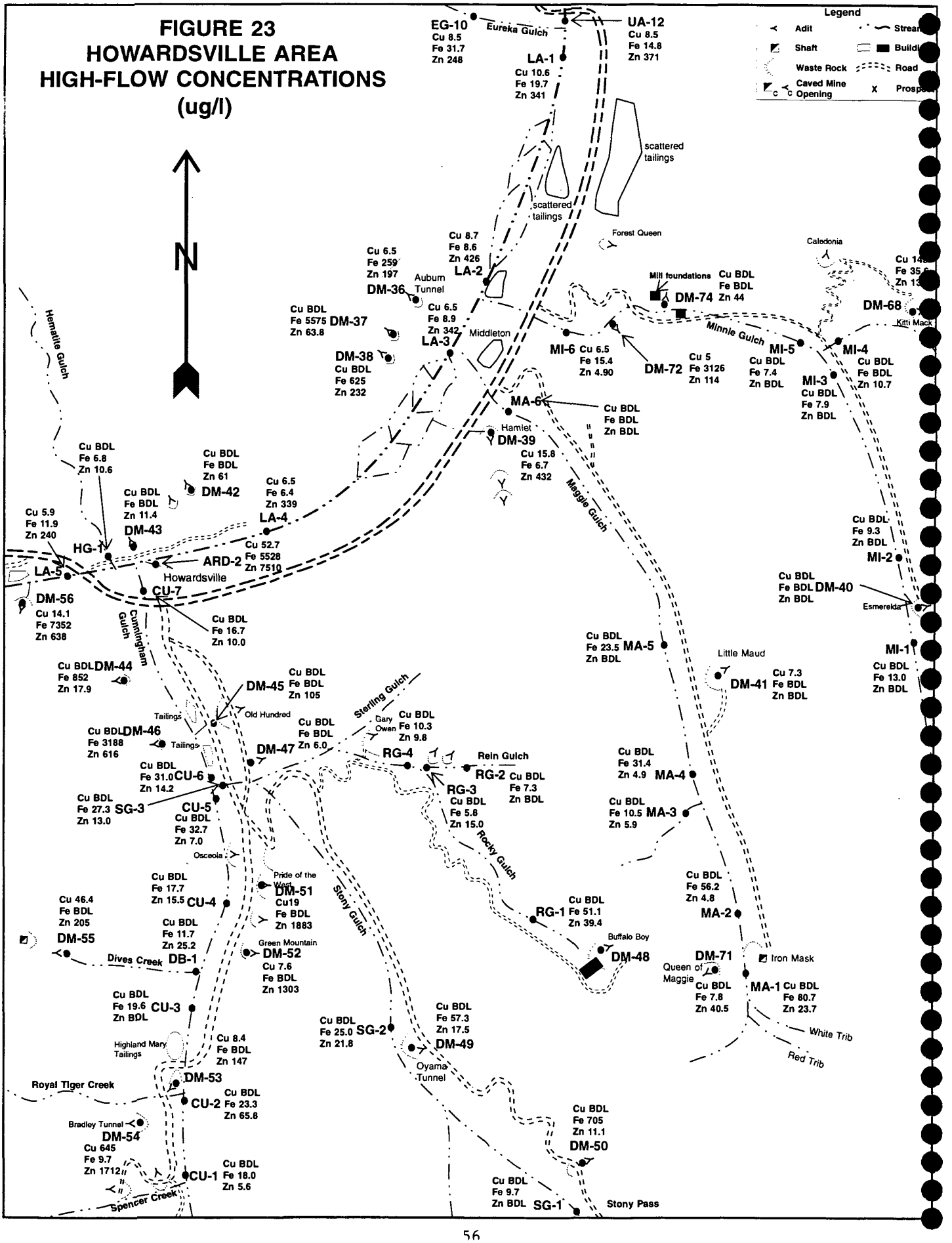
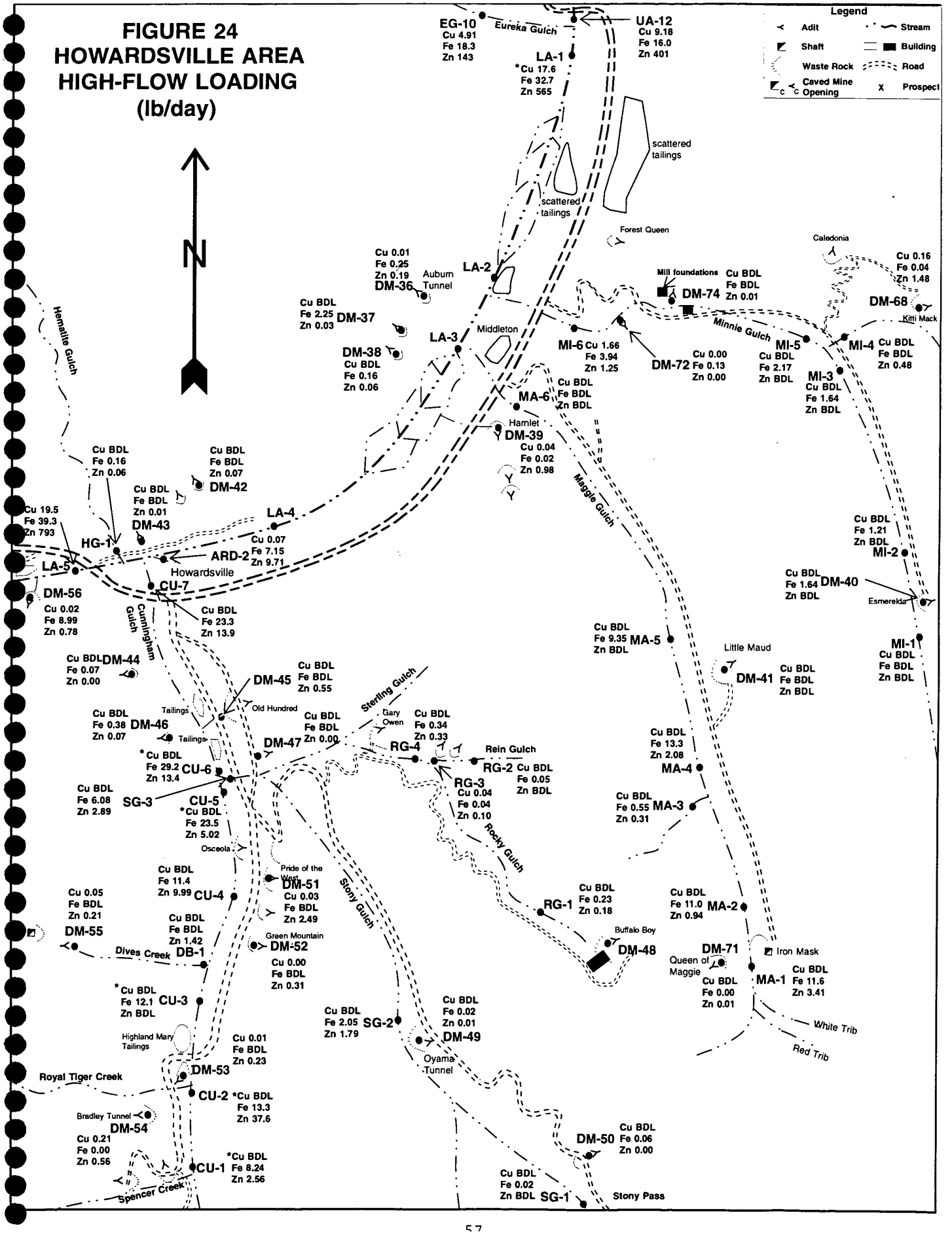


FIGURE 24
HOWARDSVILLE AREA
HIGH-FLOW LOADING
(lb/day)



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Page 64 of 237

concentration and load below the Kitti Mack Mine can be attributed directly to the Kitti Mack Mine drainage.

During high-flow, all the zinc concentrations above the confluence with the Animas River were below detection limits.

Minnie Gulch Cadmium Loading

During high-flow and low-flow sampling, cadmium concentrations in Minnie Gulch were below detection limits. The only mine drainage with detectable cadmium was the Kitti Mack Mine.

Geologic Setting

The geology of Minnie Gulch is quite uniform. The watershed is carved almost entirely in Burns Formation dacite and rhyodacite volcanic flow rocks. Exceptions are a small area where the underlying Eureka Tuff is exposed at the mouth of the gulch, and an isolated remnant of devitrified ash-flow tuff capping the drainage divide between Minnie and Cuba Gulches. All the rest of the rock exposed in the gulch belongs to the Burns formation, though several different hydrothermal alteration styles are present. There is some indication of moderate to locally strong solfataric alteration and pyritization of the Eureka Tuff and Burns Formation near the mouth of the gulch, along the margin of the ring-fault structure defining the caldera. Above the mouth of the gulch, rock exposed in the upper basin is strongly propylitized.

Several large fault structures cut across the valley of Minnie Gulch, and are clearly visible in the high slopes above the stream valley. The longest and most prominent structure cuts across the lower gulch in the hydrothermally altered area, where it is marked by numerous prospects and workings. A swarm of weaker less persistent veins occurs in the middle and upper reaches of the gulch, and these too have been prospected. All these structures are parallel to the caldera marginal fault zone, and show a down-to-the-west sense of movement, reflective of caldera subsidence.

Surficial Geology

Upper Minnie Gulch is mantled with extensive unconsolidated surficial deposits. Talus and colluvium, as well as patchy glacial deposits cover parts of the valley floor. A large alluvial fan has formed at the confluence of Minnie Gulch and the main stem of the Animas, where the steep tributary canyon changes grade abruptly at the floor of the valley.

Geologic Hazards

Avalanche chutes and runout zones are common on both sides of the gulch, extending well below timberline in the lower sections.

Minnie Gulch Site Descriptions

Mine sites in this area selected by DMG and ARSG for reclamation feasibility studies include: the Esmerelda Mine, Kitti Mack Mine, Caledonia Mine, DM-72 Mine and DM-74 Mine. These sites are shown on Figure 25. Coordinates of each site are given in the individual site descriptions, which follow below.

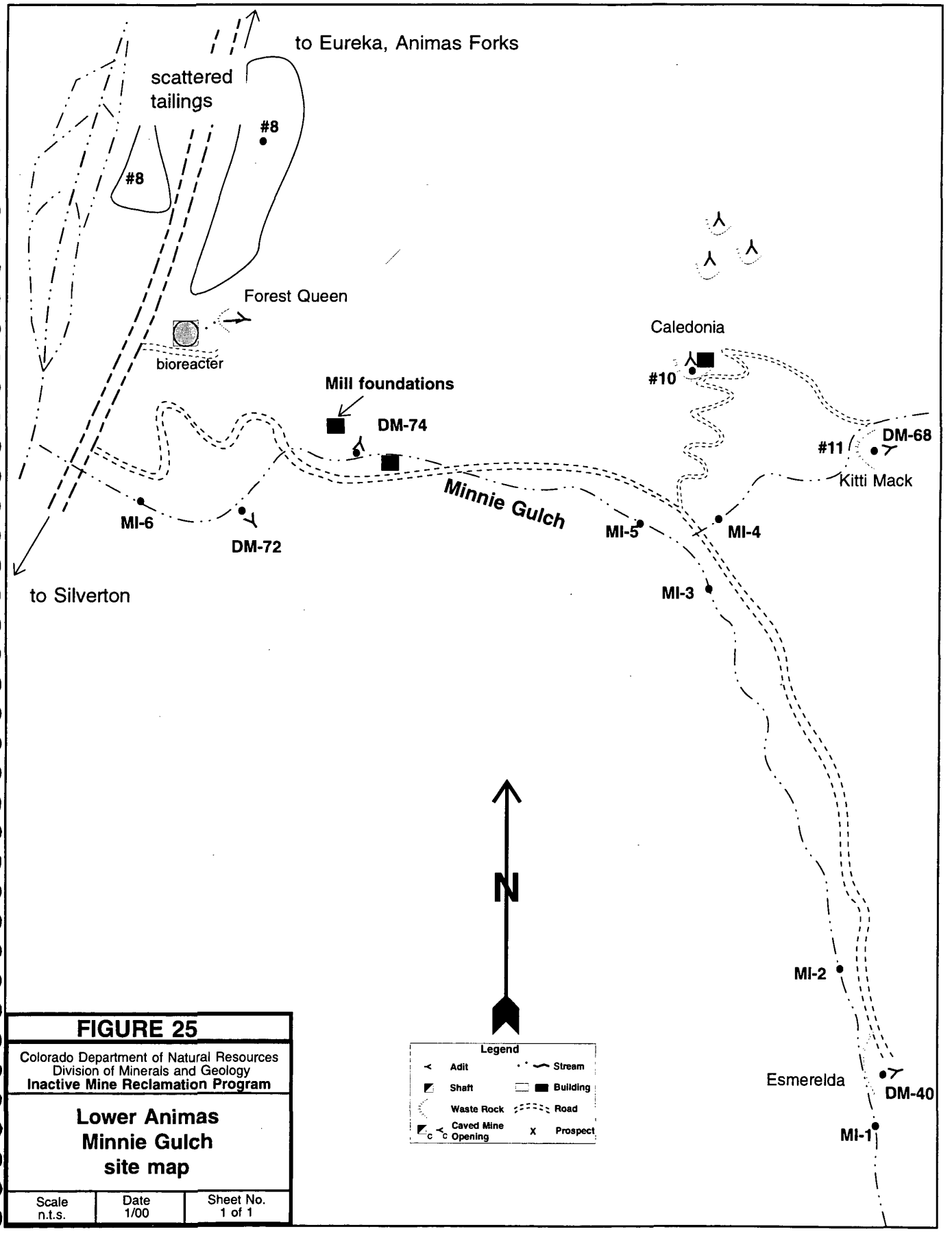

FIGURE 25

Colorado Department of Natural Resources
Division of Minerals and Geology
Inactive Mine Reclamation Program

Lower Animas
Minnie Gulch
site map

Scale	Date	Sheet No.
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Because there are virtually no problems with the water quality in Minnie Gulch, the mine sites in Minnie Gulch should be low priorities for reclamation. All the sites investigated, except for the Kitti Mack Mine, produced insignificant metal loads to Minnie Gulch. Each of the sites will be briefly discussed below.

Caledonia Mine
The Caledonia Mine is located on a small perennial tributary to Minnie Gulch at an elevation of 11,240 feet. The lowest adit is located at LAT. N37°51'58.9", LONG. W107°32'40.4". There are several upper levels of the mine northeast of the main adit. The Caledonia mine does not drain. The waste rock pile was sampled as site #10 (Figure 6).

Although the waste rock at the Caledonia Mine had one of the highest zinc concentrations in the leachate analysis, this site does not seem to adversely effect the water quality in Minnie Gulch during high-flow, when heavy metals contamination from the mine waste piles should be the highest.

Esmerelda Mine
The Esmerelda Mine is located on the main stem of Minnie Gulch at the end of the Minnie Gulch access road. The mine is at an elevation of 11,480 feet. The lowest adit is located LAT. N37°50'54.3", LONG. W107°31'56.9". The lowest adit is believed to be on the Brookside claim. There are two adit levels of the mine. The lowest adit drains approximately 15 to 90 gpm. The mine drainage was sampled as site DM-40. The waste rock pile was not sampled because it appeared to be principally country rock with very little mineralization.

The Esmerelda Mine drainage is a minor source of metals during both low-flow and high-flow. Iron from the Esmerelda Mine can be easily reduced by constructing a small settling pond in the alluvium between the adit and the stream.

DM-72
The draining mine at sampling site DM-72 is a small prospect adit located in lower Minnie Gulch at an elevation of 10,200 feet. This mine is located in the steep walled canyon on the east side of the stream at LAT. N37°51'39.8", LONG. W107°33'35.7". The adit is believed to be on an unpatented claim. Access to the mine is by foot only. The mine adit drains approximately 0.5 to 4 gpm. The flow path from the adit is heavily stained with red, iron sediments. This mine drainage is principally a source of iron. If any reclamation is done at this site, it should be limited to constructing a small settling pond to reduce the amount of iron that enters Minnie Gulch. A settling pond can be constructed by hand at this site.

Midway Tunnel
The Midway Tunnel is located near some old mill structures in lower Minnie Gulch at an elevation of 10,480 feet. The mine adit is collapsed. The drainage appears as a series of moss covered springs that cascade into Minnie Gulch. This mine site is located LAT. N37°51'43.5", LONG. W107°33'10.0". The mine site is believed to be on an unpatented claim. The mine was sampled as water quality site DM-74. There is no mine apparent waste rock at this site.

The collapsed adit drains 8 to 13 gpm of pH 7.3 to 7.6 water. The mine drainage is an insignificant source of metals to Minnie Gulch. No reclamation is suggested for this site.

Kitti Mack Mine

Location
This site is located near the headwaters of a small tributary of Minnie Gulch site at an elevation of 11,580 feet. This site is believed to be on an unpatented mining claim. The lowest level of the Kitti Mack Mine was sampled as waste rock site #11 and water quality site DM-68 (Figure 4). The site is located at LAT. N37°51'56.4", LONG. W107°32'14.9".

Workings
The Kitti Mack Mine worked at least two and possibly three fissure veins in the Burns Formation. The main adit drifts N. 70° E. on a fault vein dipping 84° SE. The mineralized zone is about 12 feet wide in outcrop at the portal, which is collapsed. Country rock is silicified and altered on both sides of the vein.

Several other veins are believed to intersect this main vein, including the eastern extension of the structure developed in the adjacent Caledonia Mine. These secondary veins intersect on the Kitti Mack property, some trending more north-south. Based on the size of the dumps and amount of tailings processed from this operation at the mill site near the mouth of Minnie Gulch, there are probably several thousand feet of drifts and workings in this mine.

Mine Wastes:
There are at least two waste piles at the Kitti Mack Mine. The waste pile at the lowest level should be representative of the material located at the four upper levels. The waste rock pile contains approximately 7,850 cubic yards of white to yellow, fine to coarse rock containing some sphalerite, chalcopyrite, and pyrite. A portion of the material in the waste pile has a clay texture. Leachate results show that this waste rock is not highly acid forming, but does contain high levels of leachable copper, aluminum and zinc. The results of the leachate analysis are given below

Kitti Mack Mine

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb ppb	Zn ppb
3.23	84	1808	49	4253	3109	3	464	9811

Historic Structures
The ore loadout structure along with a housing structure and portions of the tram system to the mill, located along the Animas River, are still standing at the site. There are numerous scattered pieces of equipment below the adit.

Water Quality Impacts
Although the water quality in Minnie Gulch is good, the Kitti Mack produces a significant copper, cadmium and zinc load. Apparently, the mine drainage is diluted by clean water flows, or the mine drainage flows underground into Minnie Gulch. The low-flow zinc concentration at station MI-5, below the confluence with the tributary containing the Kitti Mack Mine, indicates that at least some of the mine drainage flows underground. The drainage from the Kitti Mack Mine may dissolve additional metals as the mine drainage infiltrates through the waste rock. The water quality sampling results are given below:

Sampling Station DM-68

Flow Regime	Diss. Al g/day	Diss. Cd g/day	Diss. Cu g/day	Diss. Fe g/day	Diss. Pb g/day	Diss. Mn g/day	Diss. Zn g/day
High-Flow	BDL	1.93	73.57	18.11	2.85	91.68	672.57

Reclamation Options

Reclamation of this site would not be cost effective because there are virtually no problems with the water quality of Minnie Gulch. If any reclamation is done at this site in the future, it is recommended that the mine drainage be diverted around the waste rock and run-on controls constructed. Also, a limestone adsorption bed and settling pond can be constructed to reduce heavy metals loading. The mine drainage should be aerated by a series of drops into the settling pond. The settling pond will settle out any colloidal metals such as iron and copper. A portion of the zinc can be removed by precipitation onto the limestone.

MAGGIE GULCH

Location

Maggie Gulch is a tributary to the Animas River located approximately 6.0 miles northeast of Silverton. Maggie Gulch drains the west flanks of Galena Mountain and the west and north flanks of Canby Mountain. Maggie Gulch is a roughly north-south watershed with elevations ranging from 13,478 feet on the Canby Mountain to 9,720 feet at the confluence with the Animas River.

Most of the mining in Maggie Gulch is located near the headwaters. There are very few large mines in the Maggie Gulch watershed. Most of the mining features near the headwaters are prospect shafts and adits.

The area is characterized by rugged, steep, high alpine terrain well above timberline. Winters are long with snow depths averaging 440 inches, and the summer growing season is short. Average total precipitation for the past 3 years is 45 inches, 37 inches occurring as snowfall (SGC data).

Maggie Gulch Copper Loading

During low-flow and high-flow, all copper concentrations in Maggie Gulch were below detection limits (Figures 21 and 23). Maggie Gulch is and insignificant source of copper.

Maggie Gulch Zinc Loading

Maggie Gulch is an insignificant source of zinc to the Animas River. The dissolved zinc concentrations above the confluence with the Animas River were all below the No Effect Concentration (Figures 21 and 23). Zinc dissolved concentration during low-flow and high-flow was the highest in the headwaters below two small mineralized tributaries. One of the tributaries exhibited a white, aluminum precipitate, while the other mineralized tributary was stained with iron precipitate. Zinc concentration steadily decline downstream to the confluence with the Animas River.

Maggie Gulch Cadmium Loading

During low-flow and high-flow, cadmium concentration in Maggie Gulch was below detection limits. The only sampling station where cadmium was detected was at DM-71 during low-flow.

Geologic Setting

Maggie Gulch is similar in aspect and geology to Minnie gulch, with a few exceptions. Burns formation rocks form the floor and slopes of the upper 2/3rds of the basin; the lower third through the narrow and steeper canyon section exposes the underlying Eureka Tuff ash-flow unit.

The principal geologic feature of interest in Maggie Gulch is the large and impressive granite-porphyry intrusive body cutting perpendicularly across the lower part of the valley. A broad, uniform scree slope marks the outcrop of this intrusive rock unit. The porphyry appears to have been intruded into weak, broken zones on the marginal structure at the edge of the collapsed caldera much later in geologic time. The intrusive weathers to a brightly oxidized, uniformly cobble-sized orange and red scree, which mantles the subcrop where the structure cuts across the gulch.

Surficial Geology

Unconsolidated deposits cover less than 20% of the surface in Maggie Gulch. Extensive aprons of talus mantles much of the upper valley walls and floor below the headwall of the gulch above the Little Maud site. An active debris-flow fan is forming at the mouth of a steep side gully on the north side of the valley just above the Little Maud mine. Small landslides and colluvial slips in the head of this ravine have flowed down and onto the valley floor, reaching the stream. Thin deposits of glacial till and morainal debris remain in scattered patches along the upper shoulders of the valley below the steep canyon section in the lower part of the valley.

Maggie Gulch Site Descriptions

Mine sites in this area selected by DMG and ARSG for reclamation feasibility studies include: the DM-71, the Iron Mask Mine and mill near the headwaters, and the Little Maud Mine. These sites are shown on Figure 26. Coordinates of each site are given in the individual site descriptions, which follow below.

Because there are virtually no problems with the water quality in Maggie Gulch, the mine sites in Maggie Gulch should be low priorities for reclamation. Each of the sites will be briefly discussed below.

Queen of Maggie Mine

The Queen of Maggie Mine is located on the west side of Maggie Gulch near the headwaters at an elevation of 11,920 feet. The draining mine is located LAT. N37°48'48.8", LONG. W107°32'18.0". The draining adit is believed to be on the Queen of Maggie or Doctor claim. The adit drains approximately 3 to 4 gpm. The mine drainage was sampled as site DM-71. The waste rock pile was not sampled because it appeared to be principally country rock with very little mineralization.

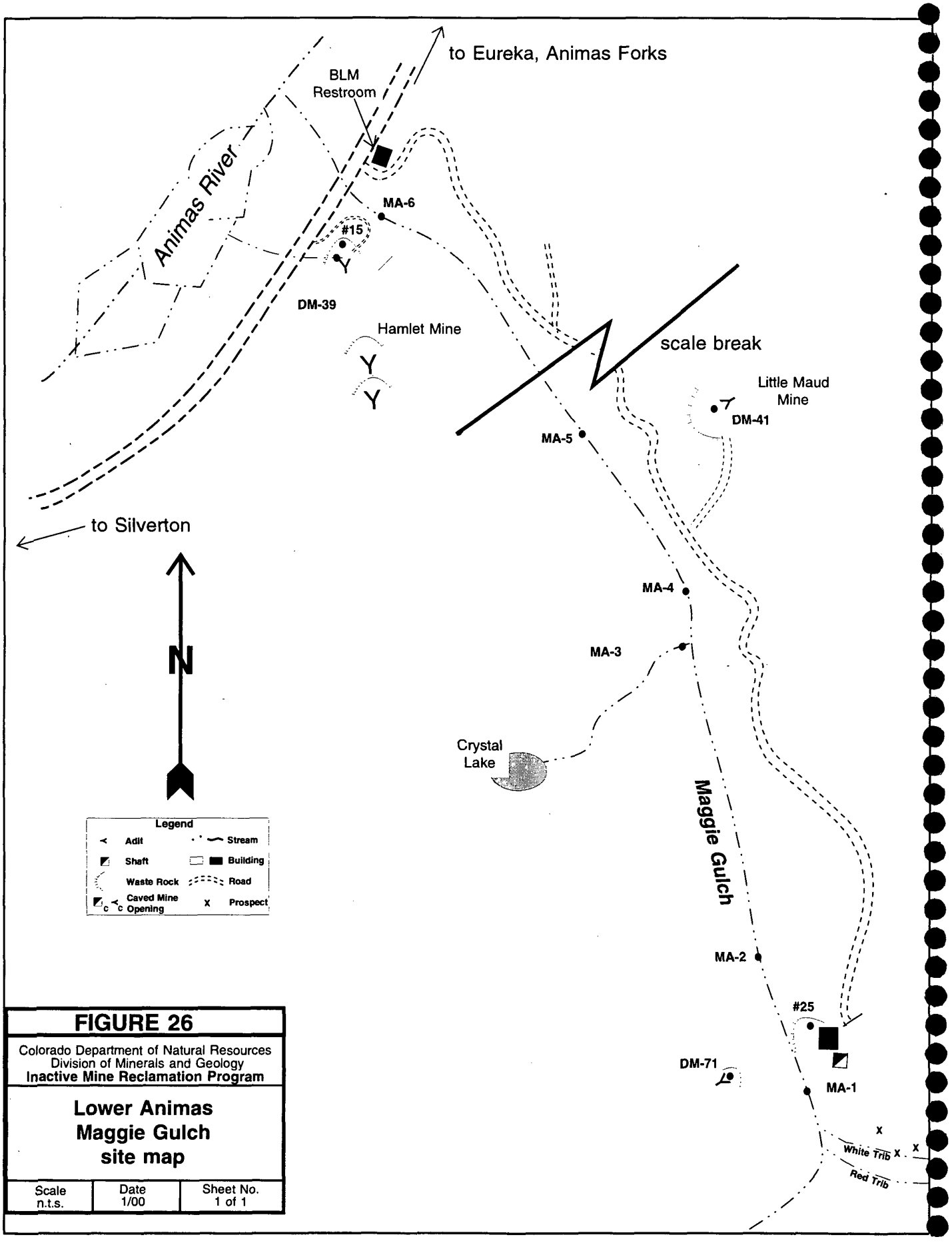

FIGURE 26

Colorado Department of Natural Resources
Division of Minerals and Geology
Inactive Mine Reclamation Program

Lower Animas
Maggie Gulch
site map

Scale	Date	Sheet No.
n.t.s.	1/00	1 of 1

The draining mine is principally an iron source. Natural processes probably remove most of the iron as the drainage infiltrates into the surrounding willow bog. This site is recommended for no reclamation at this time.

Iron Mask Mine and Mill

This mine site is located adjacent to Maggie Gulch on the east side of the stream at an elevation of 11,800 feet. The mine is located at the end of the access road into Maggie Gulch. The toe of the waste pile is located in the stream channel at LAT. N37°48'51.5", LONG. W107°32'09.3". There are the remains of a single battery stamp mill at the site along with several pieces of milling equipment. The small amount of mill tailings at the site is completely vegetated. The waste rock was sampled as site #25. The mill tailings were not sampled. There is no drainage from the open shaft. This site is believed to be on the Iron Mask claim.

No reclamation is recommended for this site at this time.

Little Maud Mine

This draining mine adit is located on the west facing slope of Maggie Gulch at an elevation of 11,600 feet. The mine adit is collapsed. During the low-flow sampling, there was no drainage from this mine. During the high-flow sampling event, the measured flow was less than 1gpm. This mine site is located at LAT. N37°49'55.5", LONG. W107°32'14.7". The mine drainage was sampled as site DM-41. The waste rock pile was not sampled because it appeared to be principally country rock with very little mineralization. The mine site is believed to be on the Riverview or Twilight claim. The mine drainage is an insignificant source of metals to Maggie Gulch. No reclamation is suggested for this site.

CUNNINGHAM GULCH

Location

Cunningham Gulch is a broad, north-south glacially carved tributary valley. Cunningham Gulch is the largest tributary to the Animas River between Eureka and Cement Creek. The Cunningham Gulch watershed includes the drainage from Stony Gulch. The Stony Gulch drainage includes sites in Sterling, Rocky and Rein Gulch. The confluence of Cunningham Gulch with the Animas River is located at Howardsville approximately 4.0 miles northeast of Silverton. The elevation of Cunningham Gulch ranges from 13,478 feet on Canby Mountain to 9,640 feet at the confluence with the Animas River.

The area is characterized by rugged, steep, high alpine terrain well above timberline. Winters are long with snow depths averaging 440 inches, and the summer growing season is short. Average total precipitation for the past 3 years is 45 inches, 37 inches occurring as snowfall (SGC data).

Cunningham Gulch Copper Loading

During low-flow and high-flow, all copper concentrations in Cunningham Gulch, Stony Gulch, Rocky Gulch and Rein Gulch were below detection limits (Figures 21 and 23). Cunningham Gulch is an insignificant source of copper

Cunningham Gulch Zinc Loading

Cunningham Gulch is a minor source of zinc to the Animas River. During low-flow, dissolved zinc concentration at all the stream sites was below the no effect concentration (NEC) (Figure 21). The highest in-stream zinc concentration measured in the Cunningham Gulch watershed was 41 ug/l in stony Gulch above the confluence with Cunningham Gulch.

During high-flow, the zinc concentration in all the stream sites was below the NEC except for the site immediately above the Highland Mary mill tailings (Figure 23). At that site, the zinc concentration was 66 ug/l, which is well below the chronic toxicity level for trout. Cunningham Gulch has a reproducing brook trout population below the Highland Mary tailings and is reported to have cutthroat trout above the Highland Mary tailings.

Cunningham Gulch Cadmium Loading

Dissolved cadmium was below detection limits at all stream sampling sites in Cunningham Gulch and its tributaries. Total Recoverable cadmium was detected below the Buffalo Boy Mine and below the waste piles in Rein Gulch during high-flow. Several of the draining mines had cadmium concentration above detection limits. The Pride of the West Mine was the largest source of dissolved cadmium.

Geologic Setting

Cunningham Gulch drains a much larger watershed than Minnie or Maggie Gulches. With a larger ice-source area and north-facing aspect, the Cunningham Gulch glacier cut the valley deeper, so that it joins the Animas very near the elevation of the main valley floor. Deeper down cutting has exposed the underlying Eureka Tuff along the base of the valley walls on both sides of the gulch, from just above the mouth to the Highland Mary Mine. Burns Formation dacite and rhyodacite volcanic flow rocks outcrop above the Eureka Tuff on the upper valley walls, and cap the high ridges on both sides of the gulch, accounting for an estimated 50% of the surface area of the watershed.

From near the Green Mountain Mine to the upper headwaters of the drainage, glacial ice has cut completely through the volcanic sequence, exposing underlying Precambrian and Paleozoic rocks. Amphibolite-gneiss and hornblende-biotite-schist of the Precambrian Irving Formation outcrop below the Eureka Tuff in the base of the steep valley walls from near the mouth of Dives Basin, on to the top of the drainage divide at Highland Mary Lakes. All the lower portals of the Highland Mary are driven in Precambrian gneiss.

Just south of the Highland Mary Mine's Bradley Level portal, a narrow graben structure cuts perpendicularly across the valley in the Precambrian section. Within this down-dropped, trough-like structure, two isolated blocks of overlying Paleozoic carbonate sedimentary rocks have been preserved on each side of the creek. Limestone and Dolomite of the Leadville, Ouray, and Elbert Formations appear to have been quarried from within the graben above the Highland Mary Mill area. A large landslide composed mostly of fractured blocks of Ouray limestone mantles the slopes above Mountaineer Creek here.

The younger intrusive porphyry body outcropping in Maggie Gulch continues through the northwest shoulder of Galena Mountain into Cunningham Gulch. It splits into two fingers cutting through the upper slopes on Galena Mountain. A second larger intrusive body of quartz

monzonite outcrops on the southwest valley wall of the Gulch opposite the Old Hundred Mine. It is marked by a conspicuous talus field, visibly different than surrounding Burns formation rock.

The intrusive body has fractured and partly altered the country rock enclosing it. It was intruded into broken, weaker zones along the ring-fault system bounding the southeastern margin of collapsed caldera structure. Hydrothermally altered zones in both the intrusive and the enclosing country rock are commonly seen along the contact. A prominent, broad zone of parallel northwest trending mineralized fractures extends southwestwards beyond the porphyry intrusive into the surrounding Burns and Eureka Tuff formations on the west side of the valley. These structures reflect the trend of the underlying ring-fault system here, and were prospected and mined at several sites in Cunningham Gulch and on the southern side of the main Animas valley.

Prominently visible mineralized fissure veins crop out on the slopes of Galena Mountain. These veins are characterized by alteration zones, and often-resistant white quartz ribs and stringers that, in many places can be traced over Galena Mountain into Maggie Gulch. Workings in the Old Hundred, Gary Owen, and the mines in Rein Gulch developed these structures, as well as a series of prominent fault veins trending northwest-southeast, tangential to the Silverton Caldera structure.

Dives Basin is a smaller, hanging cirque valley tributary to Cunningham Gulch on the southwest side of the valley. Workings in the upper basin were extensions on the Shenandoah-Dives Mayflower vein, extending through Little Giant Peak from Arrastra Basin. Several prominent andesite and latite dikes trend east-west across the south shoulder of Little Giant Peak into Dives Basin, and were prospected in numerous places in the upper cirque. An andesite dike is also intruded along the Precambrian-Eureka Rhyolite contact on the west valley wall of the gulch at Dives Basin.

Stony Gulch and Rocky Gulch are two other hanging cirque valleys tributary to Cunningham Gulch on its eastern side. The lower parts of these gulches are steep and canyon-like, reflecting the hanging-nature of the tributary glaciers that cut them. In lower Stony Gulch, just above the confluence with Rock y Gulch, glacial scouring and subsequent stream downcutting have exposed the Eureka Tuff and underlying Precambrian gneiss and schist of the Irving formation. A series of prominent fault veins trending northwest-southeast, tangential to the Silverton Caldera structure, run from Galena Mountain southeastward into the Stony Gulch-Green Mountain area. These structures were prospected and developed in the Green Mountain, Buffalo Boy, and Gary Owen workings.

Surficial Geology

Cunningham Gulch is floored with a relatively continuous outwash and alluvial gravel deposit. The gravels extend from just above the short, steeper canyon at the mouth, to the Highland Mary Mill, broken only by a short canyon section in the Eureka Rhyolite at the Pride of the West Mine. Extensive talus deposits cover many of the lower valley walls in Cunningham and its tributary gulches. Several rock glaciers exist in the cirques of Dives Basin, and Stony and Rocky Gulches.

Cunningham Gulch Site Descriptions

Mine sites in this area selected by DMG and ARSG for reclamation feasibility studies include: the Bradley Tunnel, the Highland Mary Mine, the Shenandoah Dives Mine, the Innis Tunnel, the Green Mountain Mine, the Pride of the West Mine, the Old Hundred Mine, Mine DM-44, Mine Hidden Treasure Mine, the Buffalo Boy Mine, Mine DM-50, the Oyama Tunnel, the Antiperiodic Mine, the Osceola Mine and the Gary Owen Mine. These sites are shown on Figures 27 and 28. Most of the mines are situated on privately owned patented mining claims. Coordinates of each site are given in the individual site descriptions, which follow below.

Because there are virtually no problems with the water quality in Cunningham Gulch, the mine sites in Cunningham Gulch, Stony Gulch, Rocky Gulch, Rein Gulch and Sterling Gulch should be low priorities for reclamation. There are a few sites where reclamation would provide localized improvements in water quality. These sites include the Buffalo Boy mill tailings, the Buffalo Boy Mine, and the Pride of the West Mine. Each of the sites will be briefly discussed below.

Bradley Tunnel

The Bradley Tunnel is located on the west side of Cunningham Gulch between Spencer Creek and Royal Tiger Creek at an elevation of 11,160 feet (Figures 27 and 29). The draining mine is located LAT. N37°47'10.5", LONG. W107°34'55.3". The draining adit is believed to be on an unpatented claim. The adit drains approximately 1 to 28 gpm. The mine drainage was sampled as site DM-54. The waste rock pile was sampled as site #37.

The mine drainage has high concentrations of copper and zinc. There is copper staining along the flow path from the draining adit. The mine drainage exits the mine, flows for a short distance on the waste rock, then infiltrates into the surrounding soil. There is a small vegetation kill zone where the mine drainage infiltrates. The effects from this mine drainage appear to be localized during low-flow. As the mine drainage flows through the soils, most of the metals are probably removed. However, during the high-flow period, this mine site may be the primary source of the increase in zinc between sampling sites CU-1 and CU-2. Constructing a settling pond below the adit could minimize the effects from this mine drainage. Most of the copper and a portion of the zinc can be captured in the settling pond

Leachate analyses show that the waste rock at this site is a minor source of metals. Leaching of the waste pile primarily occurs during snowmelt and precipitation events. There is no evidence of flow onto the waste rock from above the site. The existing access road acts as a diversion ditch.

Highland Mary Mill Tailings

The Highland Mary mill tailings are a very visible feature located at the end of the passenger car road in Cunningham Gulch. The mill tailings are located immediately below Royal Tiger Creek at an elevation of 10,440 feet, at N37°47'22.2", LONG. W107°34'39.0". Only a few portions of the foundations and scattered debris remain from the Highland Mary Mill. The mill tailings were sampled as site #35. The volume of mill tailings is estimated to be 35,000 cubic yards. This site is believed to be on the Highland Mary Millsite claim and BLM land.

Leachate analyses indicate that some zinc and copper may leach from this site. However, there was no increase in copper and zinc between sampling sites CU-2 and CU-3, which bracket this site. In fact, there was a decrease in metals loading and concentration. No reclamation is recommended for this site at this time. The acidity measured in the leachate analysis indicates

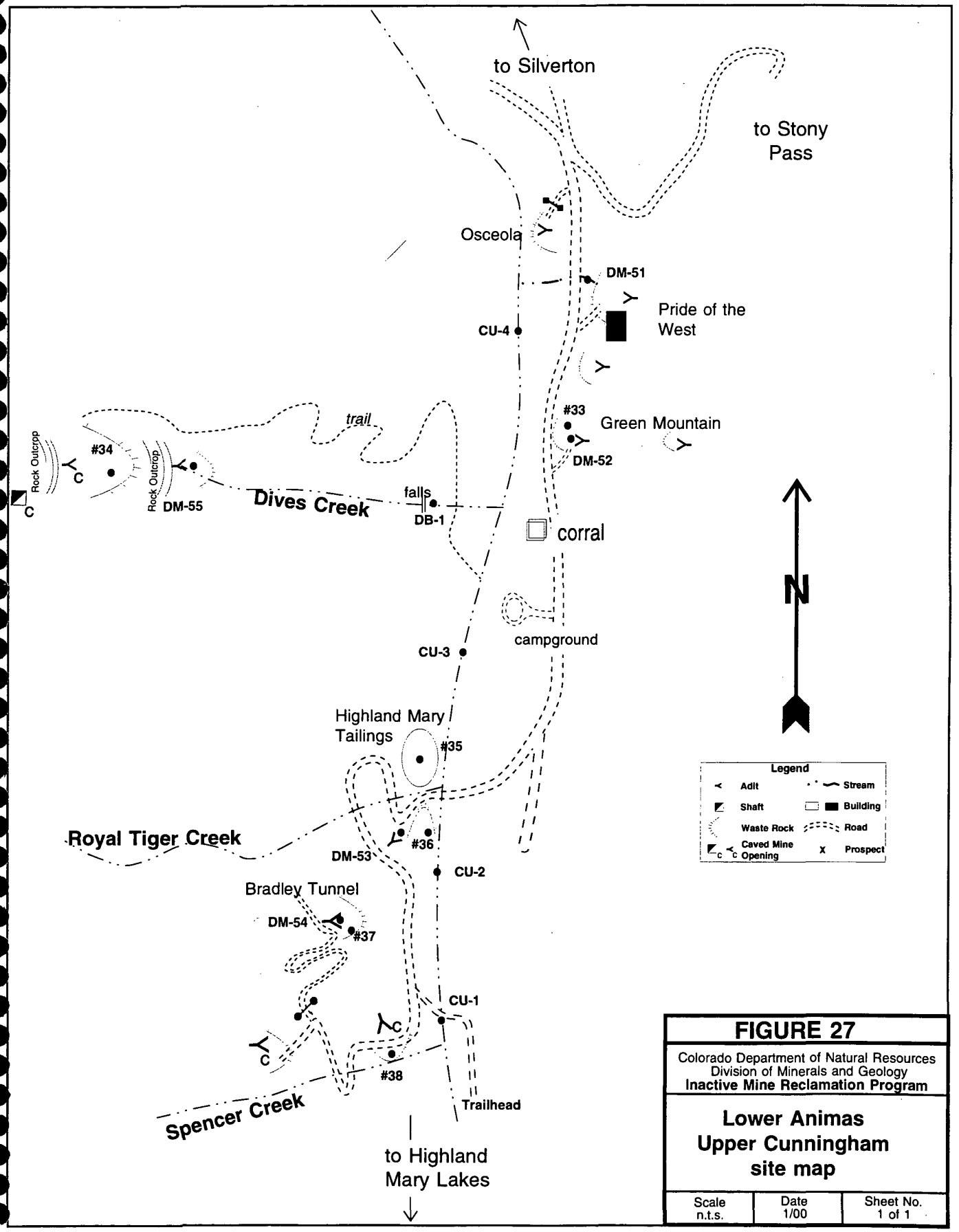

FIGURE 27

Colorado Department of Natural Resources
Division of Minerals and Geology
Inactive Mine Reclamation Program

Lower Animas
Upper Cunningham
site map

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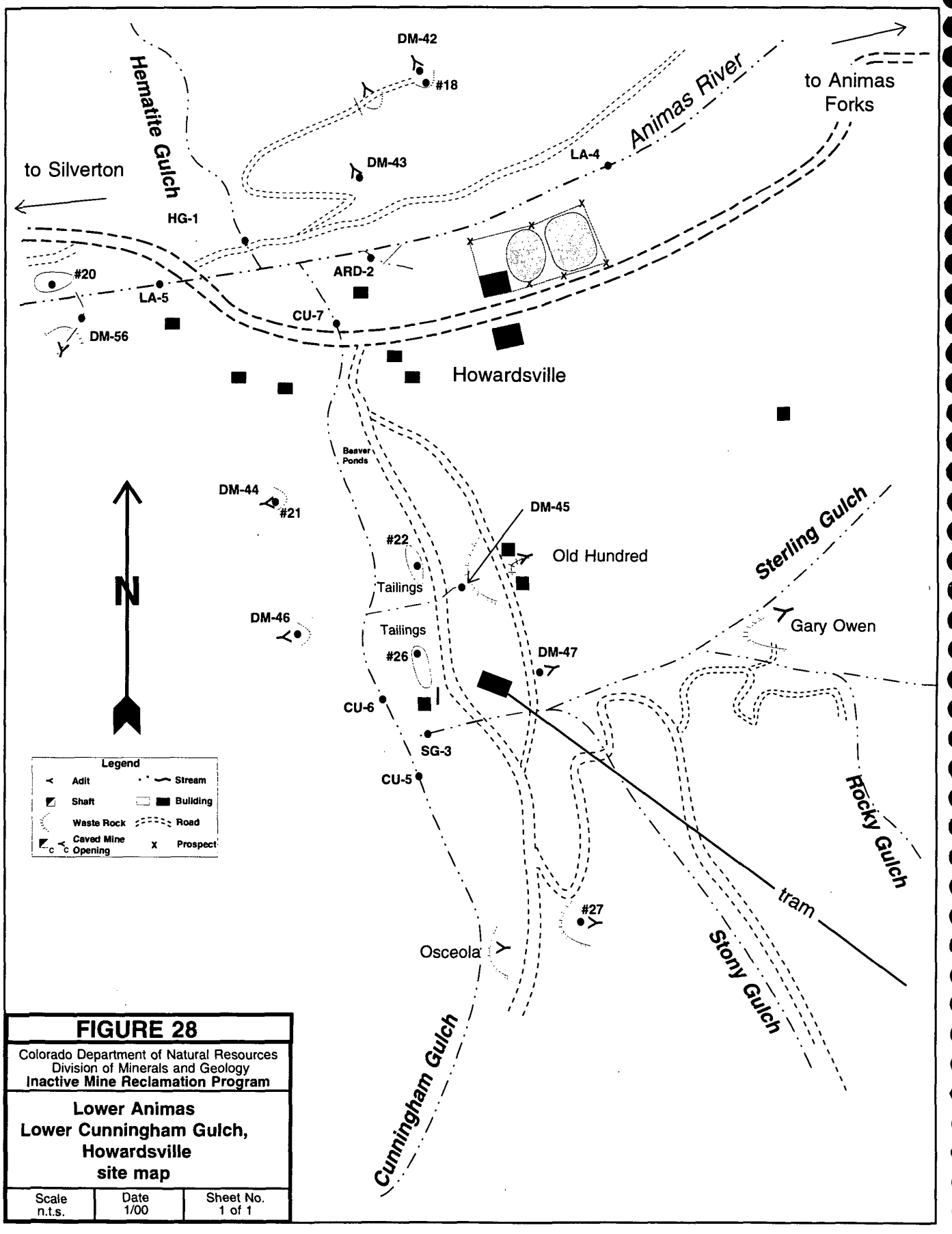

FIGURE 28

Colorado Department of Natural Resources
Division of Minerals and Geology
Inactive Mine Reclamation Program

Lower Animas
Lower Cunningham Gulch,
Howardsville
site map

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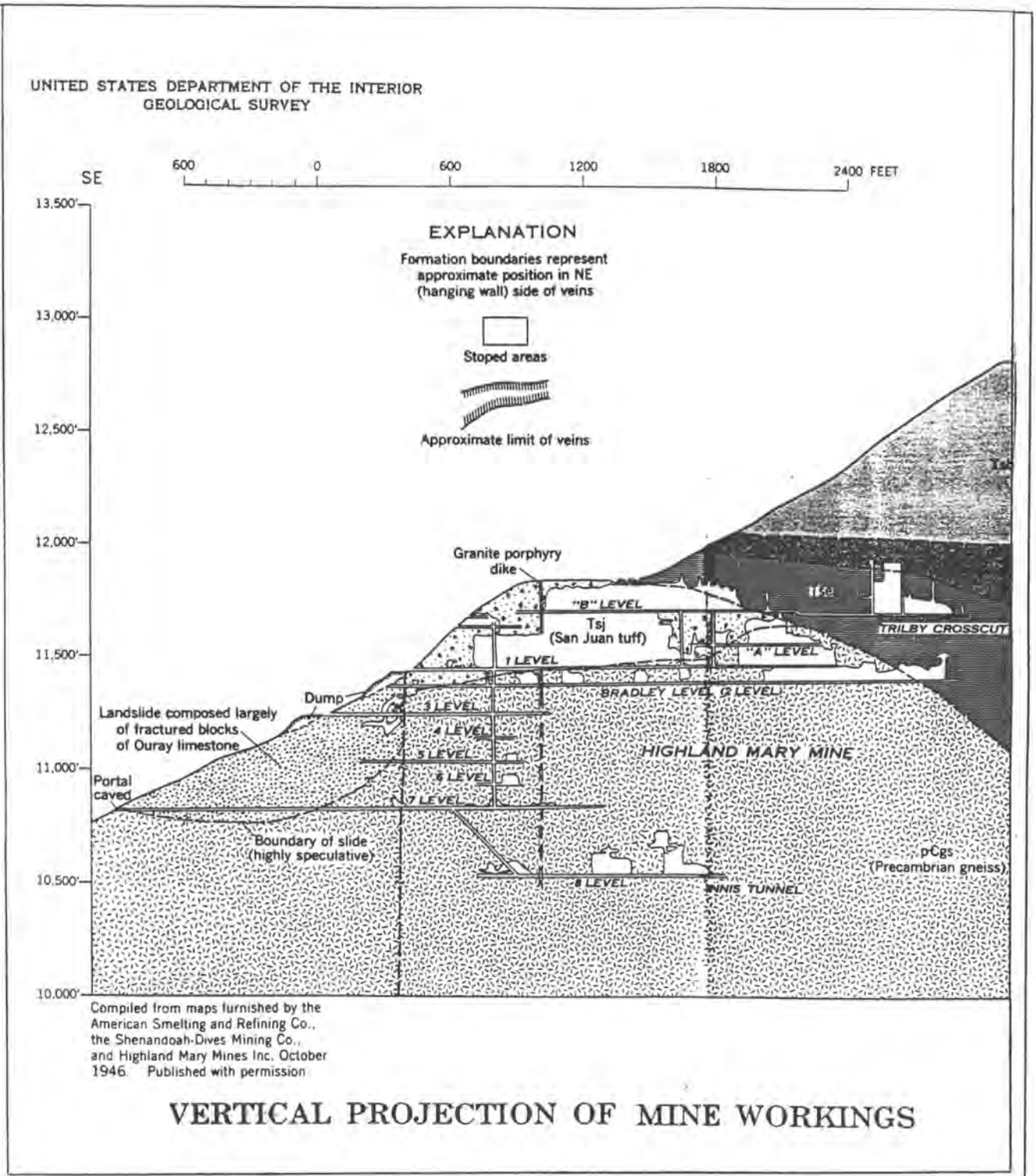

Figure 29. Vertical Projection of part of the Highland Mary Mine

Plate 3, USGS Prof. Paper 378-A, Varnes, 1963

that the mill tailings may have a positive net alkalinity. The mill tailings could possibly be used to neutralize and dilute waste rock at other sites in Mineral Creek, Cement Creek and the Animas River above Eureka. Further sampling should be done to determine whether this material could be used to reclaim other sites.

Innis Tunnel

The Innis Tunnel is located approximately 100 yards south of the Highland Mary mill tailings near the Highland Mary Mill site at an elevation of 10,460 feet (Figures 27 and 29). The draining mine is located LAT. N37°47'13.9", LONG. W107°34'44.6". The draining adit is believed to be on the Highland Mary Millsite claim. The adit drains approximately 24 to 130 gpm. The mine drainage was sampled as site DM-53. The waste rock appeared to be principally country rock. No sample was taken

The mine drainage is a minor source of metals to Cunningham Gulch. During low-flow, the mine drainage adds less than 10 grams of metals per day to Cunningham Gulch. During high-flow, the metals contribution increases to approximately 130 grams of heavy metals per day. The mine drainage flows across the 4-wheel drive access road to the Highland Mary Lakes Trailhead, then enters the Highland Mary mill tailings pile. The mine drainage should be conveyed around the road and the mill tailings. Otherwise, no reclamation is recommended for this site.

Shenandoah-Dives Mine

The Shenandoah-Dives Mine is one of the most extensive mines in the Upper Animas watershed. The main facilities of the mine are located in Dives Basin at an elevation of 12,200 feet. There is no drainage from the mine openings at that level. The 900 level of the mine, sampled as water quality site DM-55 (elevation 11,800 feet) provides the perennial flow from Dives Basin. During high-flow, there is some flow that comes from the upper reaches of Dives Basin. However, during low-flow, virtually all the flow from Dives Basin comes from the draining adit. Sampling site DB-1 was located above the confluence of Dives Creek and Cunningham Gulch. DM-55 is located at LAT. N37°47'22.2", LONG. W107°34'44.6". The draining adit is believed to be on BLM land between the Cora Nellie Zoe and Elizabeth claims. The adit drains approximately 80 to 90 gpm. There is no waste rock pile at this site. The nearest waste rock pile sampled was at the Spotted Pup Mine which was sampled as site #34.

No reclamation is recommended for this site. The mine drainage is a minor source of metals to Cunningham Gulch. Access to the Shenandoah-Dives Mine and adit DM-55 is by foot only. Adit DM-55 is located in the steep walls of Cunningham Gulch. The drainage flows over a series of waterfalls into Cunningham Gulch. Aeration apparently reduces the metals loading from the mine drainage.

Green Mountain Mine

The Green Mountain Mine is located on the east side of Cunningham Gulch, immediately above the main road at an elevation of 10,360 feet (Figure 27). This mine site is located LAT. N37°48'06.7", LONG. W107°34'39.0". The mine drainage was sampled as site DM-52. The waste rock pile was sampled as site #33. The mine site is believed to be on the Green Mountain No. 2 claim.

This operation worked a radial fault structure related to those in the Pride of the West and Osceola mines as described below. These mineralized structures are a NW-SE striking system of intersecting faults, which extend along the northeast valley walls of Cunningham Gulch

southeastwards from the marginal caldera ring-faults at the mouth of the gulch. The Green Mountain mine developed a vein striking N11°W.

The lower main adit is collapsed, but still draining across and into the dump. An upper adit on the same structure is open, and connects with stope workings on the vein 30 feet in from the portal. The vein was observed to be stoped at least 80 to 100 feet above, and 70 feet below on this level. Water could be heard dripping in these upper workings, which are connected to the main haulage level below via a 70 ft winze (Figure 30). Smaller dumps on upper levels of this vein can be seen above on the valley wall of Cunningham Gulch.

The Green Mountain adit drains approximately 20-40 gpm. The mine drainage exits the adit, and infiltrates into the waste rock. There are no obvious springs located below the mine. The mine drainage has a high zinc concentration. Waste rock leachate analysis indicates that there may be additional zinc leached from the waste rock as the drainage flows through the pile. Stream stations CU-3 and CU-4 bracket this site. During low-flow, zinc concentration fell as the stream passed this site. During high-flow, there was an increase in zinc concentration, but most of that is attributable to the input from Dives Basin. The only reclamation currently recommended for this site is to convey the mine drainage around the waste rock pile. Additional zinc could be removed by passing the mine drainage through a limestone trench, where zinc can sorb onto the limestone. The mine drainage is low in iron, so armoring should not be a problem.

Pride of the West Mine

Location

This site is located on the east side of Cunningham Gulch at an elevation of 10,280 feet. This site is believed to be on the Trail patented mining claim. Mine drainage was sampled as site DM-51 (Figure 27). The waste rock was not sampled. The site is located at LAT. N37°48'25.5", LONG. W107°34'40.1".

Geology and Mine Workings

There is a good deal of geologic information on the Pride Of the West Mine (Varnes, 1963). Figure 31 shows the layout of underground workings, which developed a vein complex assigned to Varnes's "eastern shear system". D. J. Varnes mapped the mine in 1945 and 1946 for USGS Professional Paper 378-A. He writes:

> *The Pride of the West workings are extensive and more complex than most mines in the area, owing to the irregularity of the vein zone. The veins trend roughly north but curve somewhat convexly to the east. The dips are generally 50° to 70° W. Ore is localized along veins within a fracture zone as much as 100 feet wide. Normal faulting apparently took place along this fracture zone, and as a result, tension fissures opened between individual faults. The tension fissures generally dip at steeper angles than the faults themselves, and were favorable sites for subsequent mineralization. The faults themselves were also locally mineralized, particularly in the southern part of the mine. Some movement along the faults continued during and after mineralization.*
>
> *The steeper veins are generally wider, more continuous, and richer, especially in the northern part of the mine. Gold content of the ores is generally fairly low, and erratic in occurrence. Occasionally some wire silver is found, and the silver content is generally*

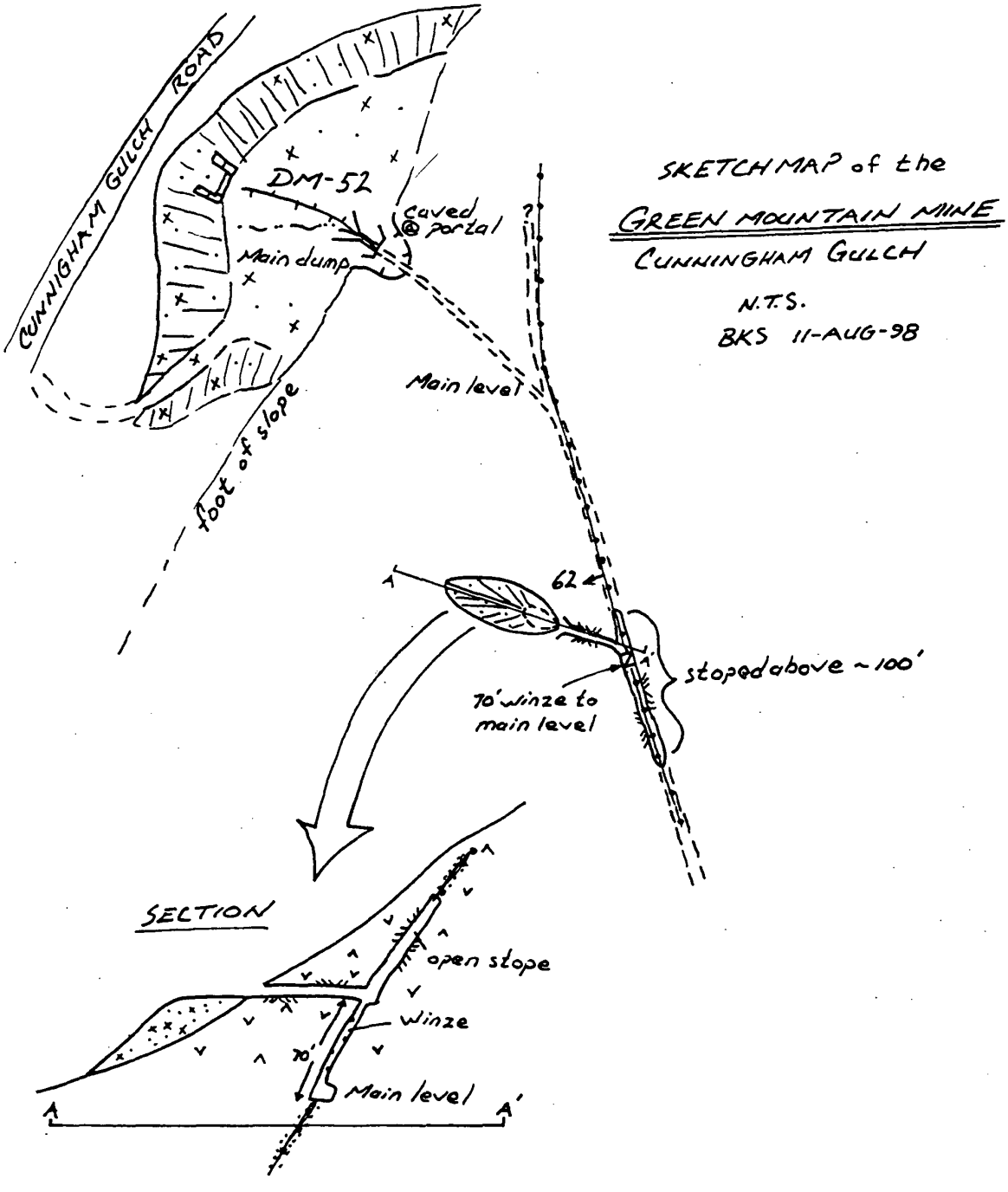

Figure 30. Sketch map of part of the Green Mountain Mine, Cunningham Gulch

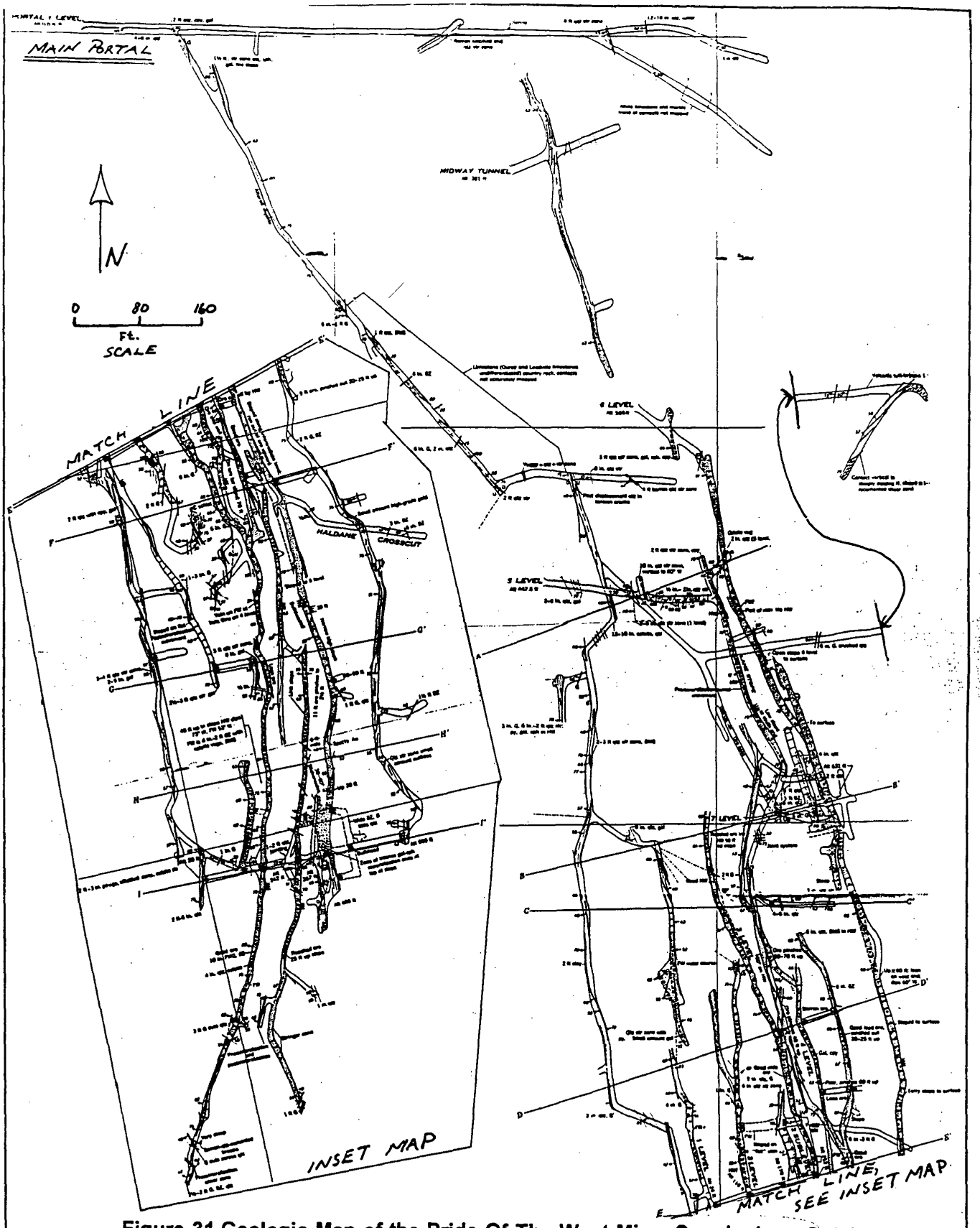

Figure 31.Geologic Map of the Pride Of The West Mine, Cunningham Gulch
Plate 5, USGS Prof. Paper 378-A, Varnes, 1963

high wherever gray copper is present. Galena, sphalerite, chalcopyrite, and pyrite are the chief sulfide minerals, and quartz and calcite are the principal gangue minerals. Banding, crosscutting veinlets, and breccia cemented by vein matter indicates the ore deposition took place in several stages and was accompanied by movement of the vein walls. In many places the veins have no true wall, but rather a false hanging wall or footwall that is only a thin slab of barren rock, which conceals another vein on the other side. Because of the discontinuity and splitting habits of the veins, the operation of the mine requires attentive supervision.

Historic Structures
The tram terminal building is still standing along with scattered debris.

Water Quality Impacts
The Pride of the West Mine is the largest source of zinc and cadmium in Cunningham Gulch. Stream stations CU-4 and CU-6 bracket the site. During high-flow, the mine drainage from this site accounts for approximately 18% of the zinc above the confluence with the Animas River. During low-flow, the mine drainage accounts for approximately 67% of the zinc in Cunningham Gulch above the confluence with the Animas River. During low-flow, there was also an increase in zinc concentration below this site, but during high-flow, there was a reduction in zinc concentration.

Flow measured from this mine varied between approximately 100 and 110 gpm in this study, which is approximately half that measured by CDPH&E in 1991 and 1992. The water quality sampling results are given below:

Sampling Station DM-51

Flow Regime	Diss. Al g/day	Diss. Cd g/day	Diss. Cu g/day	Diss. Fe g/day	Diss. Pb g/day	Diss. Mn g/day	Diss. Zn g/day
Low -Flow	BDL	3.16	7.22	BDL	1.55	127.15	665.71
High-Flow	BDL	5.21	11.39	BDL	5.63	213.21	1128.39

Reclamation Options

Treatment of the mine drainage from this site will not significantly improve the water quality of Cunningham Gulch and will have little effect on the water quality of the Animas River. However, there may be some localized positive effect in the immediate vicinity of the confluence of this mine drainage and Cunningham Gulch.

There are several options for treating this mine drainage, including alkaline addition, a sulfate reducing bioreactor, and a limestone adsorption bed. Because there will be very little improvement of the water quality in Cunningham Gulch, and virtually no improvement in the Animas River, the expenditure necessary for an alkaline addition treatment system is not warranted. The mine drainage contains very little iron, so a sulfate reducing bioreactor would be an excellent system to treat this drainage there is sufficient area for construction. A limestone adsorption bed will be less effective than the other treatment methods, but would also be the least costly. A limestone adsorption bed can be constructed in a lined trench/French-drain to pass the mine drainage around the waste rock.

Emma Mine
The Emma Mine is located above the Buffalo Boy tramhouse near the main access road past the Old Hundred Mine (Figure 28). The mine site is located at LAT. N37°49'06.9", LONG.

W107°34'45.9" at an elevation of 10,000 feet. The draining adit is believed to be on the Emma patented mining claim. The adit drains approximately 8 to 16 gpm. The mine drainage was sampled as site DM-47. The waste rock was not sampled because it appeared to be principally country rock. The mine drainage is an insignificant source of metals. The mine drainage is currently being used as a water supply by the residents of the Buffalo Boy tramhouse. The mine drainage produces less than 6 grams of dissolved metals per day. No reclamation is recommended for this site.

Smuggler Mine

The Smuggler Mine is located on the west side of Cunningham Gulch at LAT. N37°49'12.3", LONG. W107°35'11.0", elevation 10,080 feet (Figure 28). Access to the site is by foot only. The draining adit is believed to be on the Golden Gate or Smuggler patented mining claim. The adit drains approximately 10 gpm. The mine drainage was sampled as site DM-46. The waste rock was not sampled.

The mine drainage is principally a source or iron, and an insignificant source of zinc. Most of the iron and most if not all of the zinc is probably removed naturally as the mine drainage passes through debris flow material from the adjacent drainage/avalanche chute. No reclamation is recommended for this site.

Hidden Treasure Mine

The Hidden Treasure Mine is located above the Beaver ponds in lower Cunningham Gulch on the west side of the valley (Figure 28). The mine site is located at LAT. N37°49'42.3", LONG. W107°35'37.5" at an elevation of 10,020 feet. There is an old access road leading to the site, but current access is by foot only. The draining adit is believed to be on the Rock Island or Hidden Treasure claim. The adit drains approximately 3 to 7 gpm. The mine drainage was sampled as site DM-44. The waste rock was sampled as site #21.

The mine drainage is principally a source of iron, and an insignificant source of zinc. Most of the iron and most if not all of the zinc is probably removed naturally as the mine drainage passes through scree below the mine. The waste rock leachate sample indicates that some copper, iron and zinc may leach from the waste pile. However, the waste rock pile is located relatively "high and dry", so leaching of metals from the waste pile should be minimal. No reclamation is recommended for this site.

Old Hundred Mine

The Old Hundred Mine is located on the west flank of Galena Mountain near the bottom of Cunningham Gulch. There are extensive workings in the Old Hundred Mine, with several levels from the bottom of Cunningham to near the top of Galena Mountain. The lowermost level of the Old Hundred Mine is located at LAT. N37°49'24.0", LONG. W107°35'08.9" at an elevation of 10,000 feet. The Old Hundred mill tailings pile is located at LAT. N37°49'26.2", LONG. W107°35'12.4" at an elevation of 9,840 feet. The Old Hundred Mine is currently serves as a tourist mine during the summer months. The lower level of the Old Hundred and the waste rock pile are on the Galena Placer claim. The adit drains approximately 430 to 530 gpm. The mine drainage was sampled as site DM-45. The waste rock was not sampled. The mill tailings located in the valley floor were sampled as site #22.

The mine drainage is principally a source of zinc. During low-flow, the mine drainage can account for up to 23% of the dissolved zinc in Cunningham Gulch. During high-flow, the contribution drops to approximately 4% of the zinc. Zinc concentrations in the drainage are

above the NEC, but are well below the chronic toxicity standard for brook trout. Brook trout have been observed to live in the mine drainage below the waste rock pile. Because of the high flow, treatment of this drainage to reduce the zinc concentration would be costly for very little gain in water quality improvement. No reclamation is recommended for the mine drainage.

The Old Hundred mill tailings are scatter in shallow piles across the road from the mine site. There are approximately 400 cubic yards of tailings at this site. Leachate analysis shows that copper and zinc are probably leached into Cunningham Gulch during thunderstorms and snowmelt. Because of the small quantity of tailings, they should be removed to a relative "high and dry" site. One possible location is the existing waste rock dump. If the tailings are buried in the waste rock, the road ditching system will keep them relatively dry and should reduce the amount of metals leached into Cunningham Gulch.

Unknown Prospect DM-50

This unknown prospect is located near the top of Stony Pass immediately adjacent to the access road (Figure 32). The mine drainage flows across the access road. The mine site is located at LAT. N37°47'54.6", LONG. W107°33'02.2" at an elevation of 12,480 feet. The draining adit is believed to be on an unpatented claim. The adit drains approximately 1 to 8 gpm. The mine drainage was sampled as site DM-50. The waste rock was not sampled.

The mine drainage is a minor source of iron, and an insignificant source of zinc. The mine drainage produces less than 35 grams of metals per day, most of which is iron. The zinc concentration of the drainage is virtually the same as found in the stream nearby. No reclamation is recommended for this site.

Oyama Tunnel

The Oyama Tunnel is located in upper Stony Gulch (Figure 32). The mine site is located at LAT. N37°48'05.1", LONG. W107°33'22.9" at an elevation of 12,160 feet. The draining adit is believed to be on the Oyama claim. The adit drains approximately 30 to 35 gpm. The mine drainage was sampled as site DM-49. The waste rock was not sampled. This adit was driven to intersect the Buffalo Boy workings in Rocky Gulch to the east.

The mine drainage flows into a settling pond prior to being discharged to Stony Gulch. The mine drainage was sampled near the adit, above the settling pond. The mine drainage is a minor source of iron and zinc. Most of the iron and some of the zinc is probably precipitated in the settling pond below the adit. Zinc concentrations in the mine drainage were below the NEC during both low-flow and high-flow. No reclamation is recommended for this site.

Gary Owen Mine

The Gary Owen Mine is located in the triangle above the confluence of Sterling Gulch and Rocky Gulch (Figure 32). The mine site is located at LAT. N37°49'10.7", LONG. W107°34'01.1" at an elevation of 12,320 feet. The site is accessed by crossing Rocky Gulch off a narrow spur road. The open mine adit is believed to be on the Galena Creek patented mining claim. There is no drainage from the adit. The waste rock pile was sampled as site #23 because of the close proximity of the two drainages. The waste rock at this site is moderately high in leachable copper and zinc. However, there is no direct evidence that the waste rock is affecting water quality. Additional investigation would be necessary to determine the metals contribution from this site. No reclamation is currently recommended for this site.

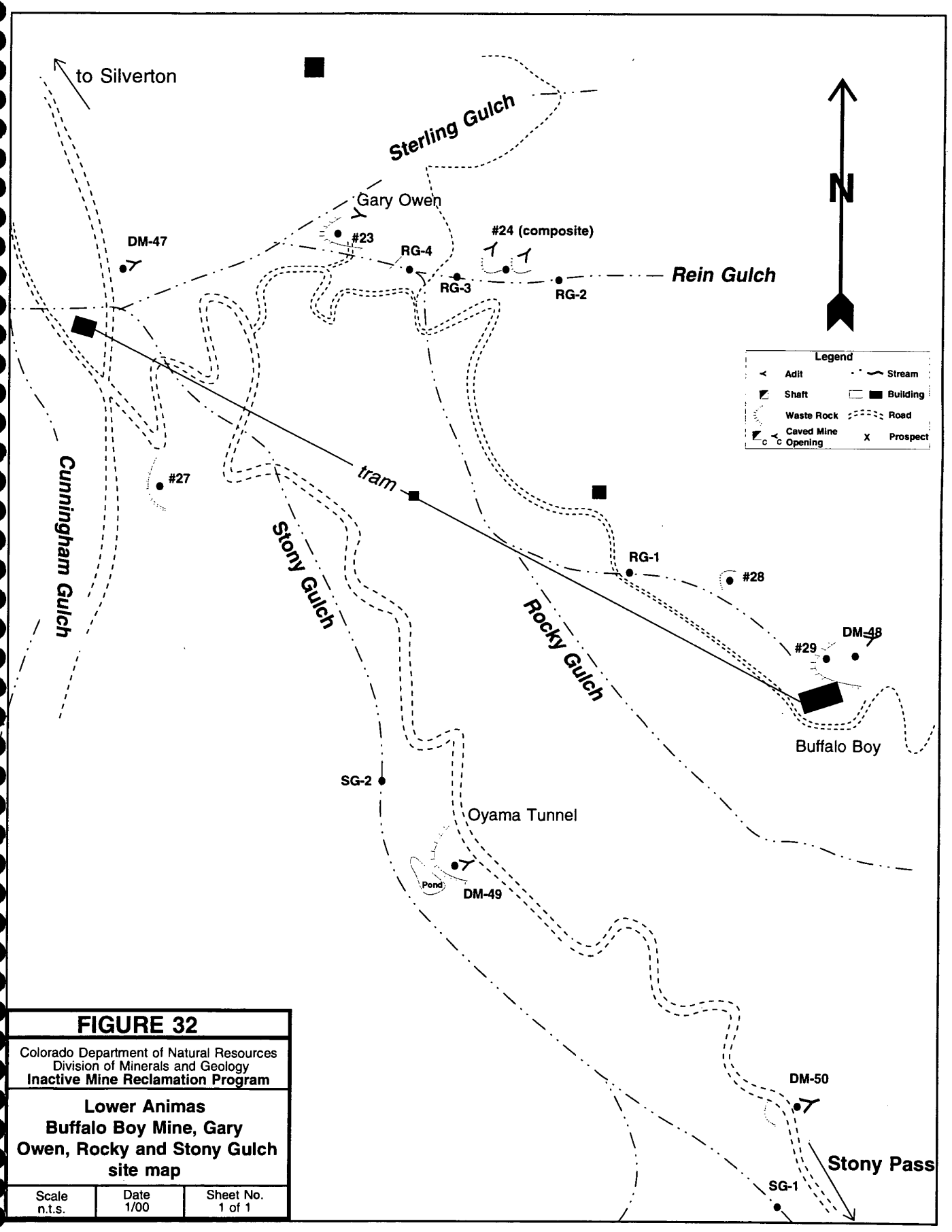

FIGURE 32

Colorado Department of Natural Resources
Division of Minerals and Geology
Inactive Mine Reclamation Program

Lower Animas
Buffalo Boy Mine, Gary Owen, Rocky and Stony Gulch site map

Scale	Date	Sheet No.
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Antiperiodic Mine

Two waste rock piles of the Antiperiodic Mine, located directly in Rein Gulch, were sampled to determine whether they were a source of heavy metal. The waste rock piles are located approximately 150 yards above the confluence of Rocky Gulch and Rein Gulch. Access to the mines is by foot only. The mine sites are located at LAT. N37°49'03.5", LONG. W107°33'37.4" at an elevation of 12,080 feet. A composite of the two waste rock piles was sampled as site #24 (Figure 32). Stream site RG-2 and RG-3 (Figure 32) bracketed the waste rock piles. The waste rock sampling shows that the piles are moderately high in copper, but relatively low in zinc. However, water quality sampling showed an increase of approximately 0.1-pound of zinc per day downstream of the piles during low-flow. Most of this increase is believed to have occurred from melting snow leaching through the waste rock rather than from the stream. At the time the stream samples were taken, there was approximately 10 feet of snow in Rein Gulch.

No reclamation is currently recommended for this site. In order to eliminate the metals contribution from this site, a road would have to be constructed to remove the waste rock piles. Reclamation of this site would not be cost effective. Armoring the toes of the waste rock piles would reduce leaching from the stream, but leaching during snowmelt would continue.

Buffalo Boy Mine

Location

The Buffalo Boy Mine is located near the headwaters of Rocky Gulch at an elevation of approximately 12,600 feet. The Buffalo Boy adit was observed to be draining during August 1998. In September 1998 during the low-flow sampling, the adit was dry. During the June 1999 high-flow sampling, there was obvious drainage from the mine adit, but due to a deep snowpack, the adit could not be located. During the follow-up sampling in July 1999, the adit was observed to again be dry. This site is believed to be on the Lachesis or Silver Bell claim. This site was sampled as waste rock sampling site #29 (Figures 32 & 33). The site is located at LAT. N37°48'36.2", LONG. W107°33'16.8". The effects from this mine site were measured at stream site RG-1.

Geology and Mine Workings

The Buffalo Boy mine developed two prominent fissure vein structures, and other smaller associated veins on the far southeastern margin of the District. The collapsed main adit connected with a vein striking N. 20° E. dipping steeply west. A second vein striking N.17° W. is believed to intersect with the northeast trending vein on the Buffalo Boy property. A line of prospects on the slope above the main adit marks a third north trending vein which may also have been worked underground. The Oyama workings (DM-49), consist of a long crosscut adit driven easterly from a position several hundred feet lower in Stony Gulch. This adit was apparently designed to intersect the main Buffalo Boy vein at depth, however, it is unclear if the work was ever completed. Waste rock on the dump of the crosscut is almost entirely un-mineralized country rock, suggesting that production from the vein was never achieved in a positive economic situation.

Little else is known of the Buffalo Boy operation in the technical literature. Precious metal content of ores from this region of the Silverton District is generally weaker than in areas on the northwest and northern margins of the caldera. From the limited milling and relatively small waste rock piles associated with this operation, coupled with extremely difficult access problems, it appears unlikely to have been a profitable operation

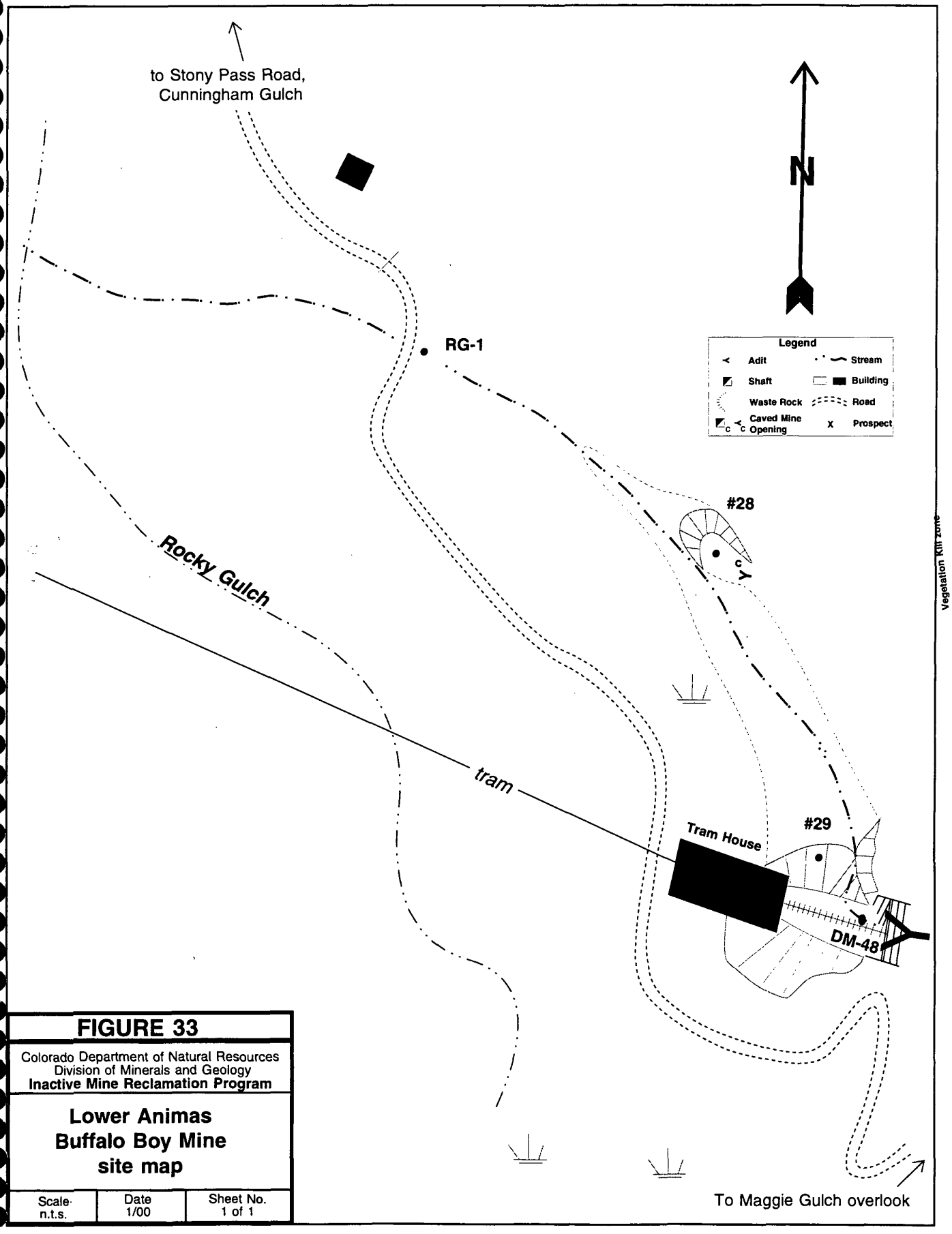


FIGURE 33

Colorado Department of Natural Resources
Division of Minerals and Geology
Inactive Mine Reclamation Program

Lower Animas
Buffalo Boy Mine
site map

Scale: n.t.s.	Date 1/00	Sheet No. 1 of 1

Mine Wastes:
The waste rock pile has a vegetation kill zone extending for over 400 feet below the mine site. The waste rock pile contains approximately 7,000 cubic yards of rock containing pyrite and chalcopyrite. Leachate results indicate that the waste rock is not particularly high in heavy metals. However, because of the deep snowpack at this site, there is considerable leaching that occurs during snowmelt. It is also possible that the waste rock in the interior of the pile differs from the surface, where sample # 29 was taken. The vegetation kill zone is probably caused by a combination of the waste rock leaching and drainage from the mine. Selected results from the leachate analysis are given below.

Buffalo Boy Mine

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb ppb	Zn ppb
3.97	29	324	BDL	115	253	2	BDL	81

Historic Structures
The tramhouse and loadout are still standing at this site. Most of the tram towers leading to the lower tramhouse are still standing. There are also numerous pieces of equipment and debris at the site.

Geologic Constraints to Reclamation
There are no site-specific geologic hazard constraints to reclamation. There is no avalanche or rock fall hazard. Access is very difficult, and bedrock is at or near the surface on much of the property. There are abundant sources of talus and colluvium from adjacent borrow areas, but these materials will require amendment if they are to be used for capping, or disposal.

Water Quality Impacts
Identified water quality impacts from this site come from the waste rock and mine drainage. During low-flow, approximately 0.03 pounds of zinc was added to Rocky Gulch from this site. During high-flow, approximately 0.2 pounds of zinc and 1/4 pound of iron drained into Rocky Gulch from this site. During low-flow and high-flow, the zinc concentration was below the NEC at station RG-1.

Reclamation Options
The principle impact from this site is visual. By reclaiming the vegetation kill zone below the site, the metals contribution should also be reduced in the short term. Organics and limestone should be added to the kill zone, then the area should be seeded and mulched. The organics will provide an uncontaminated base for the vegetation to become established, and the limestone will act as a buffering agent and provide sites for adsorption of zinc.

Buffalo Boy Mill Tailings

Location
The Buffalo Boy mill tailings are located in the bottom of the Cunningham Gulch valley southwest of the Old Hundred Mine (Figure 28). The mill tailings are below the lower Cunningham Gulch access road at LAT. N37°49'01.6", LONG. W107°34'55.2" at an elevation of 9,920 feet. The mill tailings are believed to be located on the Lennon, Ouray Chief, and or Eugina claim.

There are an estimated 400 cubic yards of mill tailings at the site. Leachate analysis shows that the mill tailings are mildly acid forming with high copper, iron and zinc concentrations. Selected results from the leachate analysis are given below.

Buffalo Boy Mill Tailings

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb ppb	Zn ppb
3.17	215	6764	294	9349	5039	9	4141	54874

Historic Structures

There is scattered debris and portions of the mill foundations at the site. A house was under construction on this site at during the water sampling events

Water Quality Impacts

Because of the proximity of the mill tailings to the stream in Cunningham Gulch, the mill tailings pile is likely a source of heavy metals. Because there were no stream stations in the vicinity of this tailings pile, there is no direct evidence of metal leaching into Cunningham Gulch.

Reclamation Options

The small amount of mill tailings located at this site can be removed to a relatively "high and dry" site. The nearest suitable location would be the waste pile at the Old Hundred Mine. As an alternative, the mill tailings could be cemented in-place by mixing fly ash and cement with the mill tailings. However, cementing the tailings in-place would leave a permanent un-vegetated area. Another alternative is to mix the mill tailings with an organic source, such as manure, and limestone to reduce leaching of metals. This option would allow for revegetation of the site.

ARRASTRA GULCH

Location

The confluence of Arrastra Gulch and the Animas River is located approximately 2.5 miles west of Silverton neat the Mayflower Mill. The Arrastra Gulch watershed includes the drainage from Little Giant Basin and Woodchuck Basin. The elevation of Arrastra Gulch ranges from 13,451 feet on Kendall Mountain to 9,480 feet at the confluence with the Animas River.

The area is characterized by rugged, steep, high alpine terrain well above timberline. Winters are long with snow depths averaging 440 inches, and the summer growing season is short. Average total precipitation for the past 3 years is 45 inches, 37 inches occurring as snowfall (SGC data).

Arrastra Gulch Copper Loading

During high-flow, Arrastra Gulch produces approximately 8% of the dissolved copper found in the Animas River below the confluence. During low-flow, dissolved copper concentrations were below detection limits below the confluence. However, Arrastra Gulch contributed approximately 10% of the total copper found below the confluence at station LA-9.

Dissolved copper concentration in the headwaters above Silver Lake was below detection limits during both low-flow and high-flow sampling periods (Figures 34 and 35). The dissolved copper concentration increased below Silver Lake, then dropped below detection limits at sampling site AB-4, where the stream exits the talus below Woodchuck Basin. Below the confluence with the

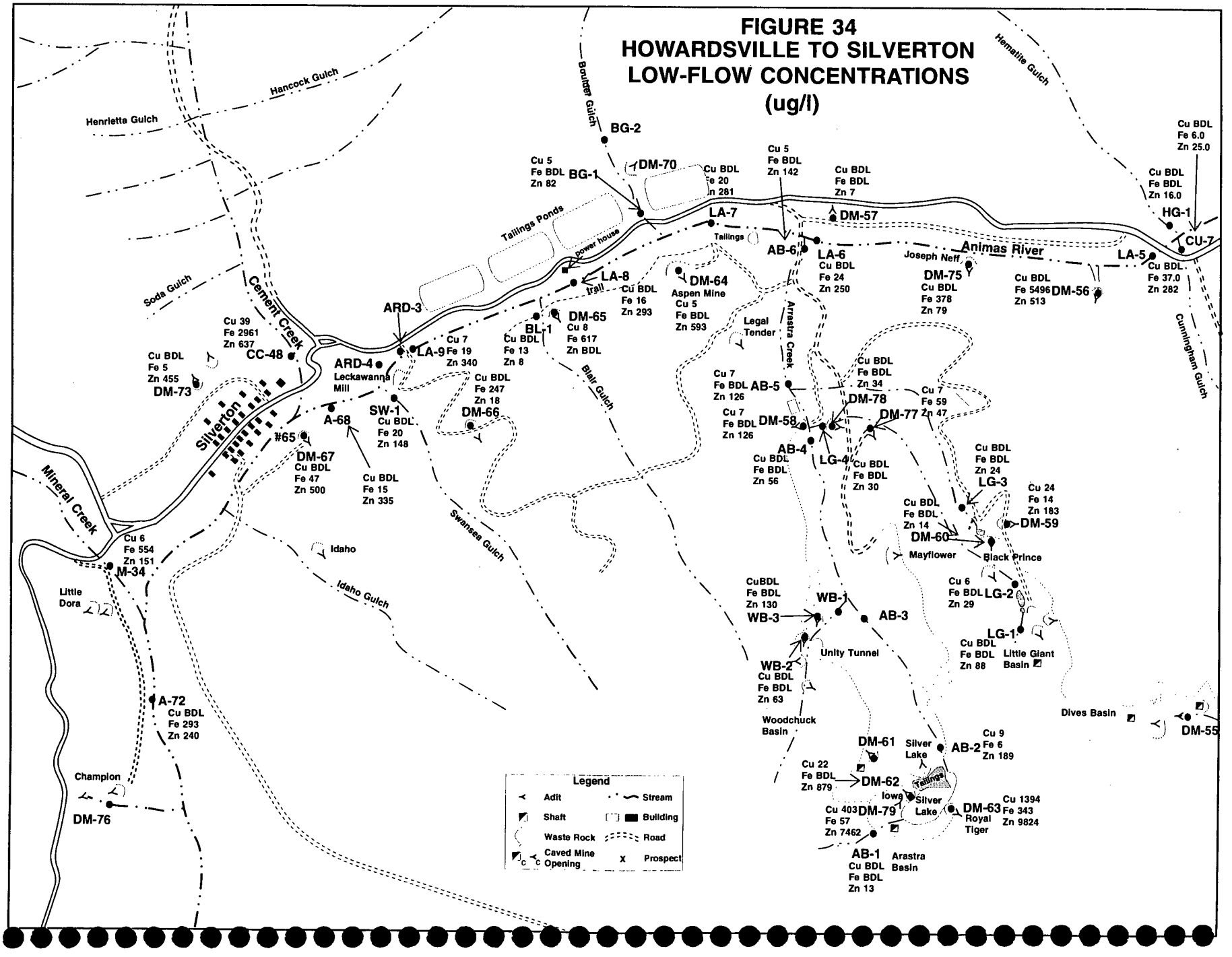
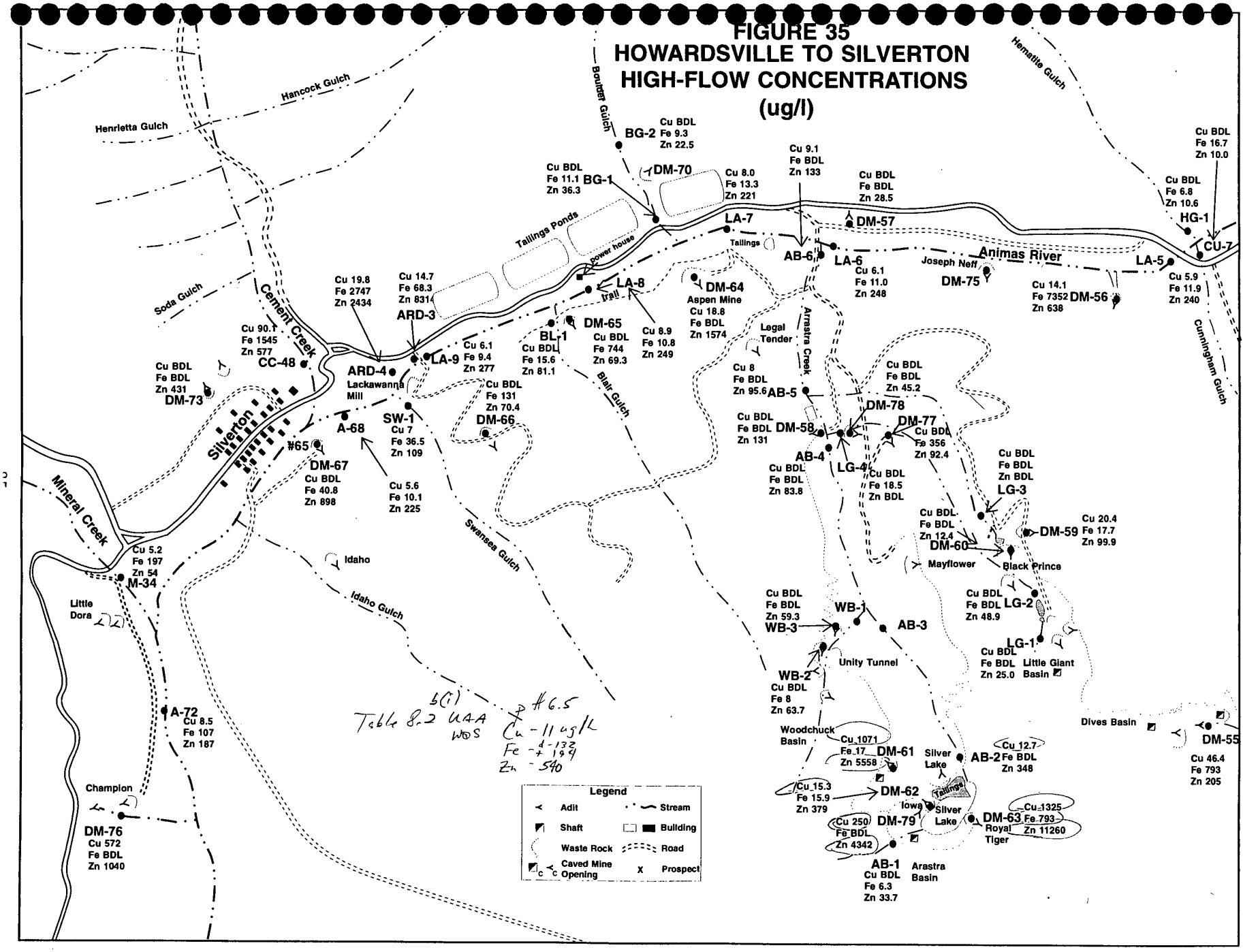


FIGURE 34
HOWARDSVILLE TO SILVERTON
LOW-FLOW CONCENTRATIONS
(ug/l)
Hancock Gulch
Henrietta Gulch
Boulder Gulch
Hematite Gulch
Soda Gulch
Cement Creek
Silverton
Mineral Creek
Tailings Ponds
power house
trail
Tailings
Animas River
Joseph Neff
Cunningham Gulch
Blair Gulch
Arrastra Creek
Swansea Gulch
Idaho Gulch
Idaho
Legal Tender
Mayflower
Black Prince
Unity Tunnel
Woodchuck Basin
Silver Lake
Iowa
Royal Tiger
Arastra Basin
Little Dora
Champion
Little Giant Basin
Dives Basin
Leckawanna Mill
Aspen Mine
Legend
Adit
Shaft
Waste Rock
Caved Mine Opening
Stream
Building
Road
Prospect
BG-2
BG-1
DM-70
LA-7
DM-57
AB-6
LA-6
LA-5
HG-1
CU-7
DM-75
DM-56
LA-8
DM-64
DM-65
BL-1
ARD-3
LA-9
ARD-4
CC-48
DM-73
SW-1
A-68
#65
DM-67
DM-66
AB-5
DM-78
DM-77
DM-58
AB-4
LG-4
LG-3
DM-59
DM-60
LG-2
LG-1
WB-1
WB-3
AB-3
WB-2
M-34
A-72
DM-76
DM-61
AB-2
DM-62
DM-79
DM-63
AB-1
DM-55
Cu 5 Fe BDL Zn 82
Cu BDL Fe 20 Zn 281
Cu 5 Fe BDL Zn 142
Cu BDL Fe BDL Zn 7
Cu BDL Fe 6.0 Zn 25.0
Cu BDL Fe BDL Zn 16.0
Cu BDL Fe 24 Zn 250
Cu BDL Fe 37.0 Zn 282
Cu BDL Fe 5496 Zn 513
Cu BDL Fe 378 Zn 79
Cu BDL Fe 16 Zn 293
Cu 5 Fe BDL Zn 593
Cu 8 Fe 617 Zn BDL
Cu BDL Fe 13 Zn 8
Cu 7 Fe 19 Zn 340
Cu 39 Fe 2961 Zn 637
Cu BDL Fe 5 Zn 455
Cu BDL Fe 247 Zn 18
Cu BDL Fe 20 Zn 148
Cu BDL Fe 47 Zn 500
Cu BDL Fe 15 Zn 335
Cu 7 Fe BDL Zn 126
Cu BDL Fe BDL Zn 34
Cu 7 Fe 59 Zn 47
Cu 7 Fe BDL Zn 126
Cu BDL Fe BDL Zn 56
Cu BDL Fe BDL Zn 30
Cu BDL Fe BDL Zn 24
Cu 24 Fe 14 Zn 183
Cu BDL Fe BDL Zn 14
Cu 6 Fe BDL Zn 29
Cu BDL Fe BDL Zn 88
Cu BDL Fe BDL Zn 130
Cu BDL Fe BDL Zn 63
Cu 6 Fe 554 Zn 151
Cu BDL Fe 293 Zn 240
Cu 9 Fe 6 Zn 189
Cu 22 Fe BDL Zn 879
Cu 403 Fe 57 Zn 7462
Cu 1394 Fe 343 Zn 9824
Cu BDL Fe BDL Zn 13

FIGURE 35
HOWARDSVILLE TO SILVERTON
HIGH-FLOW CONCENTRATIONS
(ug/l)



two streams from Little Giant Basin (station AB-5), the dissolved copper concentration increased to 7ug/l during low-flow and 8 ug/l during high-flow. During low-flow, the dissolved copper concentration decreased below AB-5, but rose slightly during high-flow.

Dissolved copper was below detection limits at all the stream sampling sites in Little Giant Basin except immediately below the lakes near the headwaters at sampling site LG-2, during low-flow. Dissolved copper from Woodchuck basin was below detection limits during both low-flow and high-flow.

The data collected by CDPH&E and the data collected in this study indicate that the dissolved copper concentration in Arrastra Gulch is close to that found in the Animas River during high-flow, but is higher in Arrastra Gulch during low-flow.

Arrastra Gulch Zinc Loading

Arrastra Gulch produces approximately 4-5% of the dissolved zinc found in the Animas River below their confluence. In general, dissolved zinc concentration was above the NEC in all portions of the Arrastra Gulch watershed except for the headwaters above Silver Lake and the flow from Little Giant Basin (Figures 34 and 35). The only portion of Little Giant Basin that had a dissolved zinc concentration above the NEC was at the headwaters below a series of prospects.

During both low-flow and high-flow, the dissolved zinc concentration in Arrastra Gulch is above the NEC below Silver Lake. During low-flow, the highest dissolved zinc concentration was measured at station AB-6 above the confluence with the Animas River. During high-flow, the highest dissolved zinc concentration was measured below Silver Lake. During low-flow and high-flow, the zinc concentration decreases dramatically below Silver Lake between sampling stations AB-2 and AB-4 as the stream flows over a steep drop and through talus, then increases downstream to the Animas River.

During low-flow, the largest dissolved zinc loading (1.8 lb./day) occurs between sampling stations AB-5 and AB-6 (Figure 36). During high-flow, the largest dissolved zinc loading (14.4 lb./day) occurs in the Silver Lake area (Figure 37). The high-flow dissolved zinc loading between stations AB-5 and AB-6 is also high (13.3 lb./day). There is also a high loading that occurs between sampling stations AB-4 and AB-5 during both low-flow (1.4 lb./day) and high-flow (11.1 lb./day). The source of most of the added zinc below station AB-4 is unknown. Some of this increase in loading may be attributable to underground stream flow surfacing below these sampling sites. This area should be investigated to determine whether there are any sources that can be reclaimed.

Arrastra Gulch Cadmium Loading

Dissolved cadmium is first detectable below Silver Lake. Most of this cadmium probably comes from the mill tailings in Silver Lake and the mine drainage from the Royal Tiger Mine. The dissolved cadmium concentration drops below detection limits below the confluence with Woodchuck Basin during low-flow and high-flow periods. During high-flow, the cadmium concentration remains below detection limits to the confluence with the Animas River. During low-flow, there is a loading increase below the two streams from Little Giant Basin. Further downstream, there is a large dissolved cadmium loading increase. Most, if not all of this increase is thought to be due to a change in geologic formation the stream flows through.

The largest point sources of cadmium identified in Arrastra Gulch are the mine drainages from the Iowa and Royal Tiger mines. During high-flow, the Royal Tiger mine was producing almost

FIGURE 36
HOWARDSVILLE TO SILVERTON
LOW-FLOW LOADING
(lb/day)

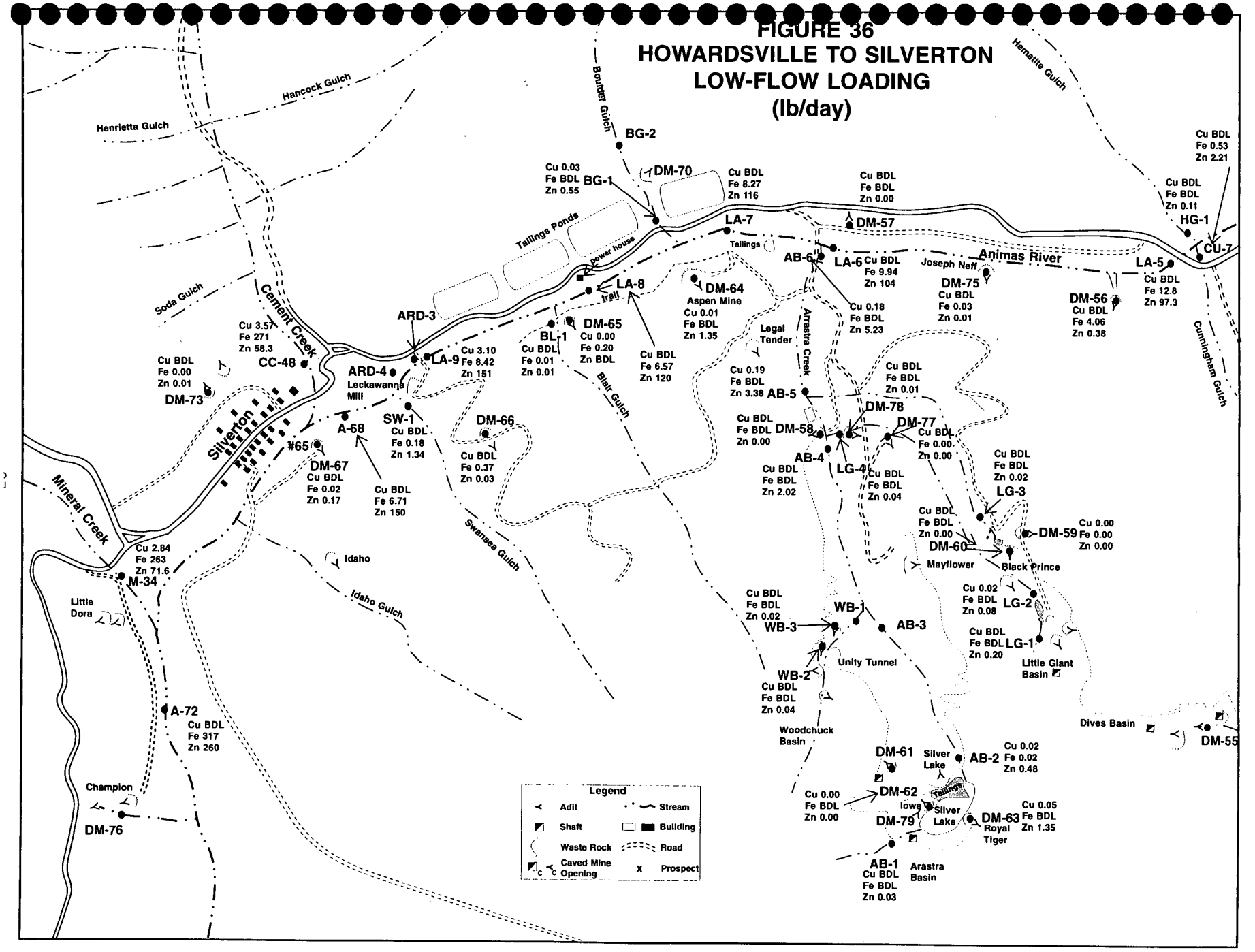
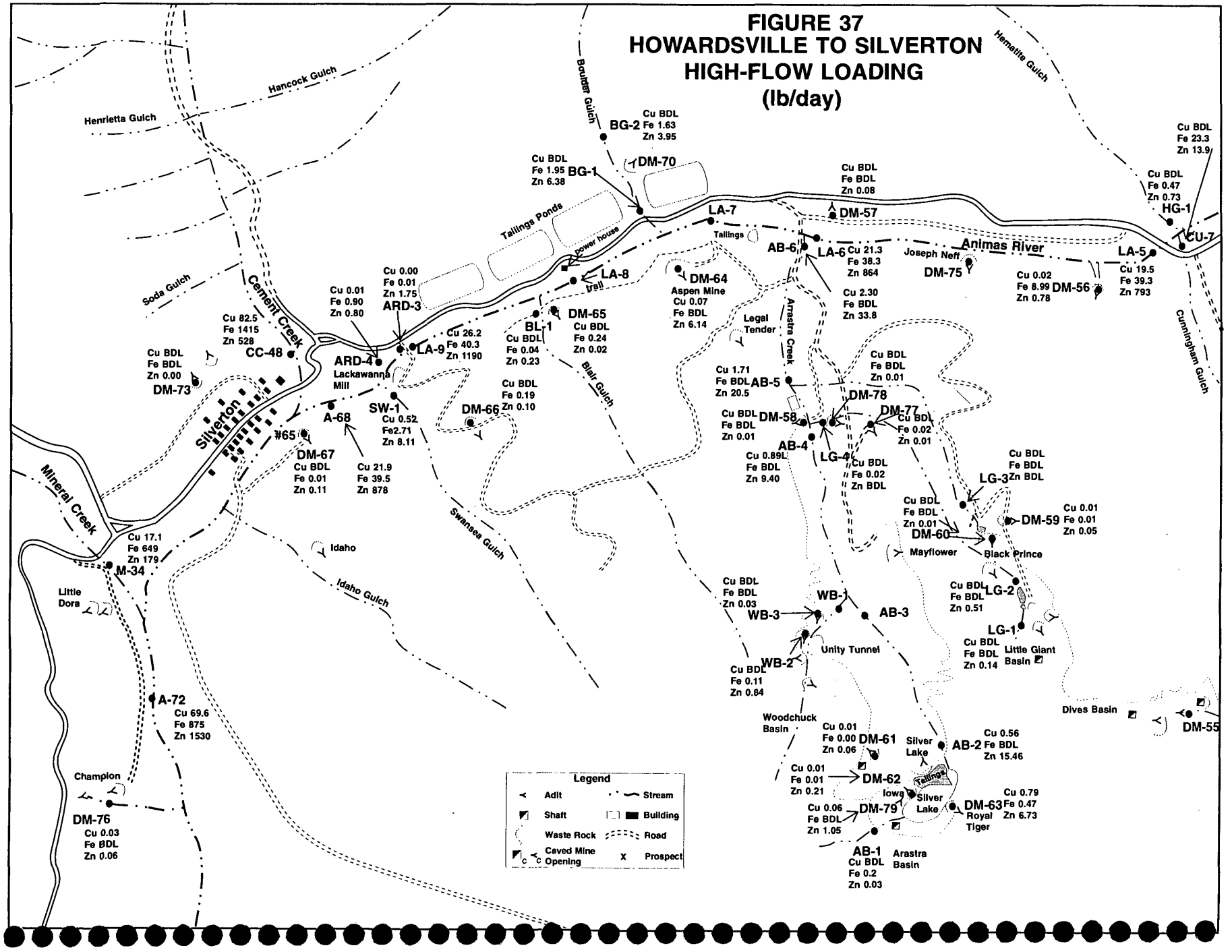


FIGURE 37
HOWARDSVILLE TO SILVERTON
HIGH-FLOW LOADING
(lb/day)



20 grams of cadmium per day. There was also an increased loading as a portion of the stream from Woodchuck Basin passed through the Unity Tunnel.

Geologic Setting

Detailed mapping has been conducted in Arrastra Basin (Burbank, 1933, Varnes, 1963). Figure 38 shows the geology of upper Arrastra and its tributaries, Little Giant and Woodchuck Basins. The lower part of the valley in the vicinity of the Mayflower/ Shenandoah-Dives Mine is cut in Eureka Tuff. Exposures are limited to the steep, nearly vertical valley walls, as the entire lower valley floor is mantled with a thick deposit of talus, scree, and glacial outwash. Below this thick deposit of unconsolidated debris, Burns formation rocks again crop out on the steep valley walls at the mouth of the basin.

The upper basin is cut entirely in the Burns Formation dacite and rhyodacite volcanic flow rocks. In Arrastra Basin, the Burns has been subdivided further into a lower tuff-breccia member, a middle dacite flow and flow breccia, and an upper tuff member (Burbank, 1933). Capping Little Giant Peak is a pyroxene-andesite flow of the overlying Henson Formation.

The lower tuff-breccia member is exposed in the lower slopes of the upper basin. It outcrops from above the Shenandoah-Dives Mine on both sides of the valley nearly to Silver Lake, and again on the south and west sides of Silver Lake on the lower slopes of Kendall Peak, through the Iowa Mine area. It also underlies the floor of the upper basin above Silver Lake. In Little Giant Basin, it outcrops across the lower valley floor from just above the Big Giant Mine to the mouth of the upper cirque basin, at 11,450 feet elevation.

The middle Burns dacite and rhyodacite flows and flow breccia unit outcrops over the rest of the basin slopes and ridges in Arrastra and Little Giant Basins. Round Mountain is made up of the flow-breccia unit, mapped separately on the basis of textural and structural differences. This middle breccia unit also outcrops on the lower footslope of the northwest shoulder of Little Giant Peak (Fig 38).

The upper tuff member of the Burns Formation is preserved only on the summits of Little Giant Peak and King Solomon Mountain. Here, the tuff member is exposed beneath a capping flow of pyroxene-andesite, believed to represent the lower part of the Henson Formation.

A broad zone of concentric northeast-southwest trending high-angle faults cuts perpendicularly across the lower basin, ¾ mile down valley from the Shenandoah-Dives/ Mayflower Mine. Although covered by talus and outwash on the lower valley floor, the faults are clearly visible in the cliff walls surrounding the gulch. Individual fault strands dip steeply west, each having a normal sense of downward movement northwest-ward into the subsided Silverton Caldera, displacing the Eureka-Burns contact downwards across the fault zone. The overlying Burns rocks have been dropped into a position below the underlying Eureka Tuff, so that they outcrop on both sides of the gulch at its confluence with the Animas River. This complex fault zone represents a companion strand of the bounding ring-fault zone marking the structural margin of the caldera. It is parallel to and follows the main trace of the ring-fault, running under the valley floor of the Animas River at its confluence with Arrastra Gulch.

Two persistent dikes of younger intrusive andesite and quartz latite porphyry run dominantly east-west across Silver Lake basin in the upper cirque (Figure 38). These steeply dipping younger dikes can be traced on the surface for long distances, and persist into the subsurface, where they have been intersected at depth in mine workings.

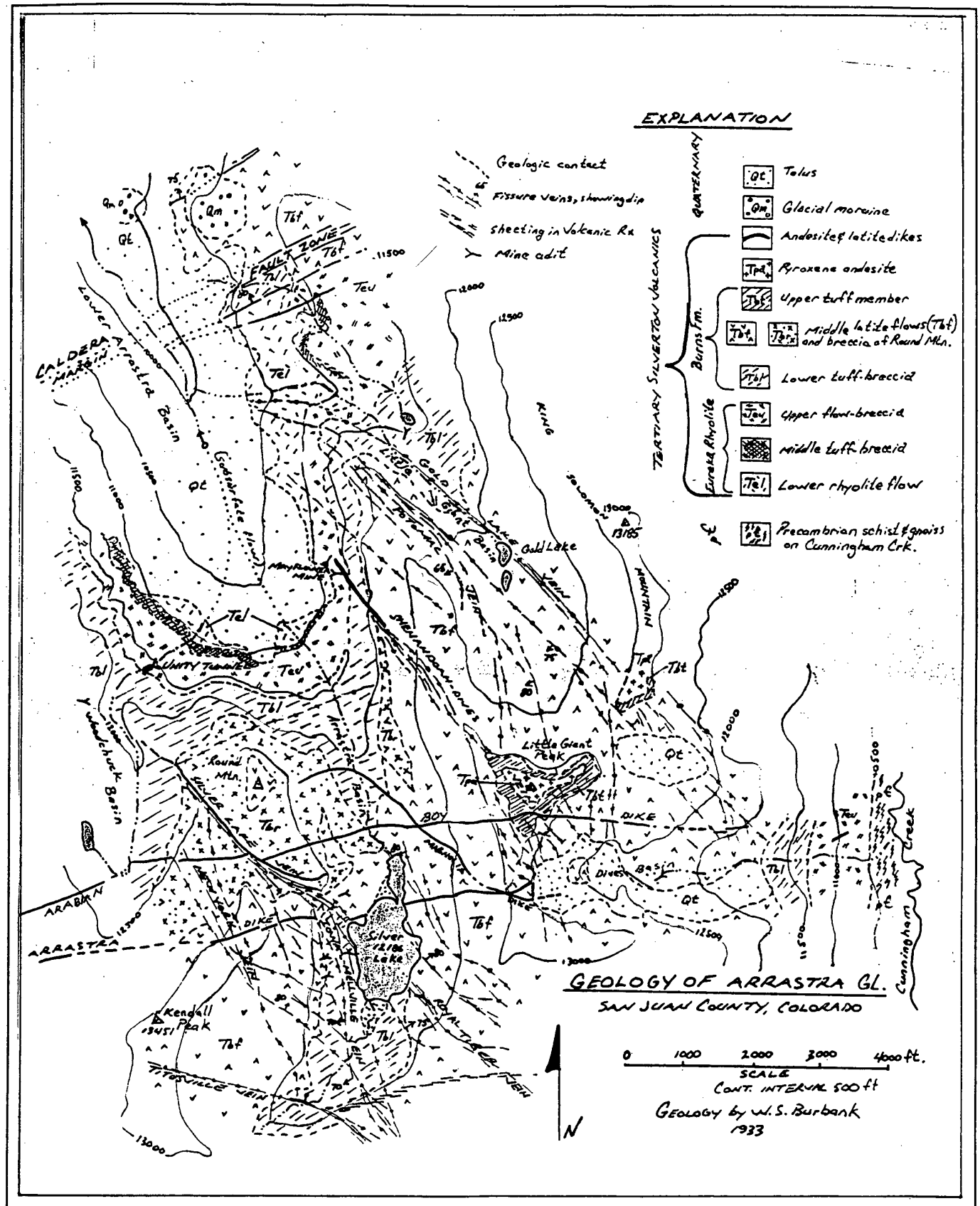


Figure 38. Geologic Map Arrastra Basin and Vicinity
From Burbank, 1933

They follow a fracture orientation roughly parallel to the caldera margin. A third dike intersects the first two, running tangential to the caldera structure.

Cutting across these dikes is a series of younger northwest-trending mineralized fissure-vein systems extending somewhat radially from the ring-fault zone across Arrastra and Little Giant Basins (Figure 38). These vein structures hosted rich silver ore deposits exploited in the numerous mines in Arrastra, Little Giant, Dives, and Woodchuck Basins. Principal veins include the Gold Lake-Black Prince, Potomac, Shenandoah-Dives, Nevada-Silver Lake-Royal Tiger, Iowa, New York, Melville, and Titusville structures.

The veins are generally low-grade complex-sulfide type, and have been classed as upper mesothermal or epithermal deposits (Varnes, 1963). Pyrite, galena, sphalerite, and chalcopyrite in a gangue of quartz and minor calcite are the most abundant vein minerals. Gold, argentiferous galena, and gray copper have accounted for most of the production values. Locally within the veins, tetrahedrite-tennanite has produced rich silver values. Visible free gold is very rare in this area, though it was reported in one specimen from the Royal Tiger (Ransome, 1901).

Surficial Geology

Upper Arrastra and Little Giant Basins are well above timberline, and almost devoid of surficial deposits. In places throughout the area, thin patchy aprons of talus and scree fill chutes and form aprons below cliffs. A wetland bog deposit of peat in alluvium and colluvium has formed on the flat basin floor at the inlet to Silver Lake, but it is thin, and discontinuous. Most of the upper watershed is composed of outcropping volcanic bedrock.

In contrast, lower Arrastra Basin is completely choked with unconsolidated deposits. Thick, extensive blankets of talus, debris flows, and glacial outwash fill the lower basin below the Shenandoah-Dives Mine, to just above the short canyon section at the mouth of the gulch. Arrastra Creek flows subsurface beneath blocky talus and debris, from the base of the waterfalls at the cliffs near the Shenandoah-Dives/ Mayflower Mine, to the confluence of Little Giant creek. Patches of glacial till and morainal deposits are found on the upper side slopes of the lower valley, where they form hummocky, heavily forested benches above the creek floor. Avalanches and rockfall are a constant hazard throughout most of the watershed.

Arrastra Gulch Site Descriptions

Mine sites in this area selected by DMG and ARSG for reclamation feasibility studies include: the Royal Tiger Mine, the Iowa Mine, the Silver Lake Mine, the Unity Tunnel, the King Solomon Mine, the Black Prince or Big Giant Mine, the Ezra R Mine, the Jess Mine, and the Argentine Tunnel. These sites are shown on Figure 39. The mines are situated on privately owned patented mining claims. Coordinates of each site are given in the individual site descriptions, which follow below.

Because the water quality from Little Giant Basin is relatively good, the mining sites should be considered low priorities. Also, the mine drainage from the Ezra R, Argentine, and Jess mines are insignificant sources of metals. Each of these sites will be discussed briefly below.

The sites where there are significant water quality problems include the Royal Tiger Mine, the Iowa Mine, the Silver Lake Mine, the Unity Tunnel, and the scattered mill tailing sampled as site #40. These sites will be discussed in detail below.

Gold Lake Mill Tailings
This site is located in upper Little Giant Basin at the end of the access road (Figure 39). The site is inaccessible during most of the year due to deep snow. During most years, the snow melts sufficiently to drive to the site in late July. The mill tailings site is located at LAT. N37°48'23.1", LONG. W107°35'57.5" at an elevation of 12,080 feet. The site is believed to be on the Gold Lake claim. The mill tailings piles were sampled as site #43.

There are approximately 350 cubic yards of coarse mill tailings located in what used to be the upper lake in Little Giant Basin, and near the lower lake. Most of the mill tailings were evidently dredged from the upper lake in the recent past, and placed in a small heap leach near the southwest corner of the lower lake. There are considerable locations where green copper has precipitated, particularly on old bones in the miner's trash. There are approximately 600 cubic yards of tailings in the heap leach. The tailings in the heap leach are subject to considerably less leaching than the remaining tailings in the upper lake site. Leachate results show that the mill tailings are high in soluble copper and have elevated zinc levels.

This site is probably the principal source of the increased copper loading during low-flow. Consolidating the remaining tailings at the lake site with the heap leach tailings can reduce the amount of copper leached from these tailings. Also, because of the small quantity of mill tailings, the entire pile could be mixed with cement to further reduce heavy metal leaching.

King Solomon Mine
The King Solomon Mine is located adjacent to the access road into upper Little Giant Basin above the Black Prince Mine (Figure 39). The mine site is located at LAT. N37°48'51.3", LONG. W107°36'16.6" at an elevation of 10,000 feet. The draining adit is believed to be on the King Solomon claim. The adit drains approximately 0.5 to 46 gpm. The mine drainage was sampled as site DM-59. The waste rock was sampled as site #41.

This mine drainage is an insignificant source of metals to Arrastra Creek. During low-flow, the mine drainage produces less than 1 gram of dissolved metals each day. During high-flow, the mine drainage produces less than 40 grams of dissolved metals each day. The mine drainage flows down the access road, and infiltrates into the road/talus within 50 yards of the mine adit. The waste rock at this site does not appear to be a significant source of metals. No reclamation is recommended for this site.

Black Prince Mine
The Black Prince Mine is located in a small bowl area near the middle of the Little Giant drainage (Figure 39). This mine is shown as the Big Giant Mine on the USGS Silverton Quadrangle. The Black Prince Mine drainage forms the headwaters of a small secondary stream from Little Giant Basin. A lake is located immediately below the mine. There are several historic structures remaining at the mine including most of the tram towers that transported ore to a mill located along the Animas River. The mine site is located at LAT. N37°48'38.7", LONG. W107°36'16.3" at an elevation of 11,480 feet. The draining adit is believed to be on the Eufemia claim. The adit drains approximately 27 to 37 gpm. The mine drainage was sampled as site DM-60. The waste rock was sampled as site #42.

FIGURE 39

Colorado Department of Natural Resources
Division of Minerals and Geology
Inactive Mine Reclamation Program

Lower Animas
Little Giant, Silver Lake and Arrastra
site map

Scale	Date	Sheet No.
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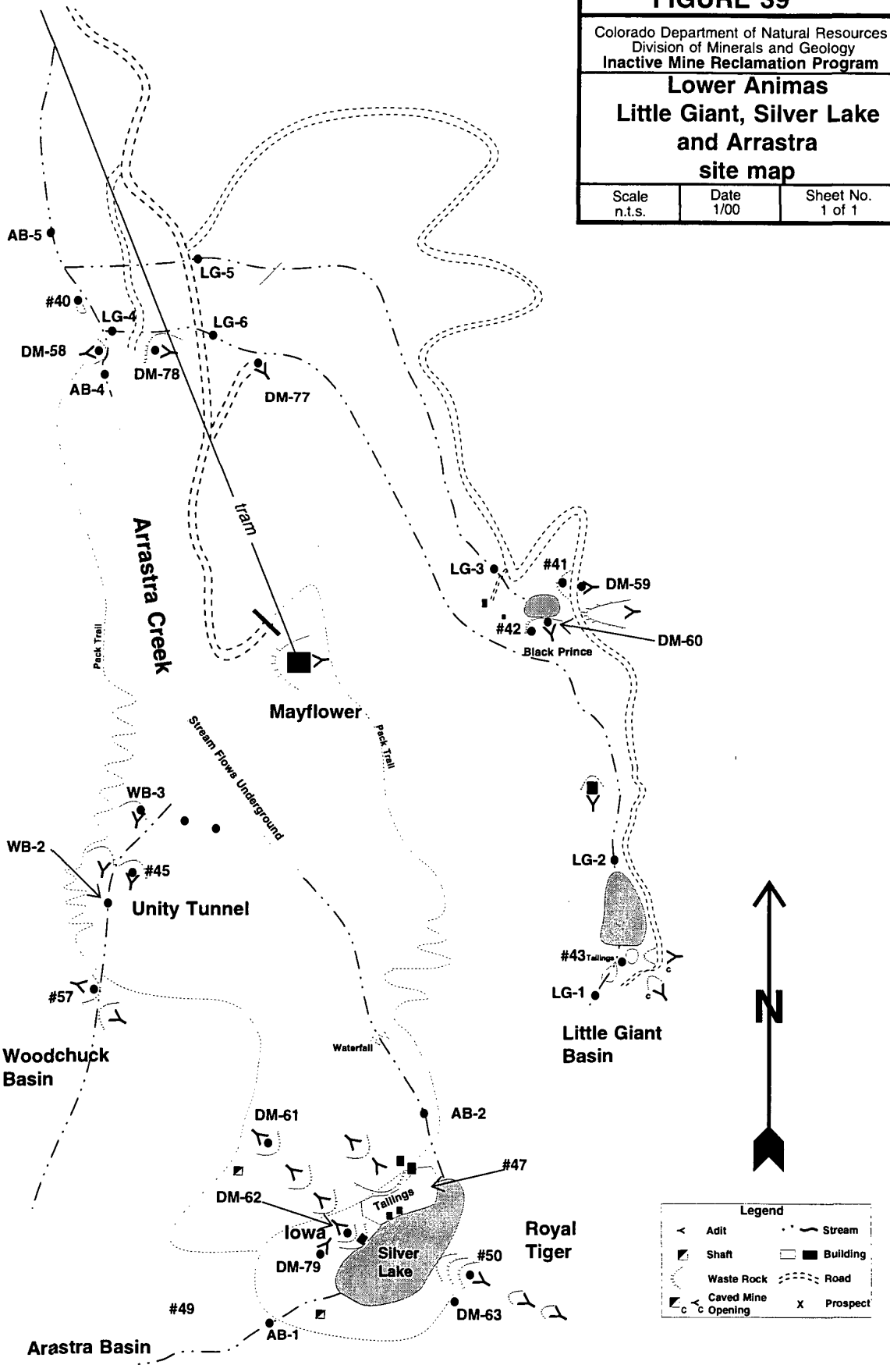

This mine drainage is an insignificant source of metals to Arrastra Creek. During low-flow and high-flow, the mine drainage produced approximately 3 grams of metals per day. The waste rock at the site mostly consists of country rock. The mine drainage flows through the waste rock into the lake below. The stream station below the lake had lower metals concentrations than the mine drainage, so the waste rock does not appear to be a significant source of metals. No reclamation is recommended for this site.

Ezra R Mine

The Ezra R Mine is located in the bottom of Arrastra Gulch at the end of the lower access road, an approximately 100 feet below where Arrastra Creek surfaces from the talus (Figure 39). The site is located at N37°48'37.0", LONG. W107°36'56.0" at an elevation of 10,020 feet. The draining adit is believed to be on the Gunnison claim. The adit drains approximately 5 to 10 gpm. The mine drainage was sampled as site DM-58. The waste rock was not sampled.

This mine drainage is an insignificant source of metals to Arrastra Creek. During low-flow and high-flow, the mine drainage produced less than 10 grams of dissolved metals per day. The waste rock appeared to be principally country rock. However, there could be some metals leached from the waste rock, because the pile partially dams the stream. The portion of the waste rock pile that dams the stream should be removed to allow free-flow through this area.

Jess Mine

The Jess Mine is located adjacent to the main stream from Little Giant Basin above the access road to the Mayflower Mine (Figure 39). The mine site is located at LAT. N37°48'47.9", LONG. W107°36'41.0" at an elevation of 10,420 feet. The draining adit is believed to be on the Jess claim. The adit drains approximately 2.5 to 5 gpm. The mine drainage was sampled as site DM-77. The waste rock was not sampled.

This mine drainage is an insignificant source of metals to Arrastra Creek. During low-flow, the mine drainage produces less than 5 grams of dissolved metals each day. During high-flow, the mine drainage produces less than 23 grams of dissolved metals each day. No reclamation is recommended for this site.

Argentine Tunnel

The Argentine Tunnel is located across Arrastra Creek from the Ezra R Mine (Figure 39). The mine site is located at LAT. N37°48'41.9", LONG. W107°36'54.0" at an elevation of 10,040 feet. The draining adit is believed to be on the Adams Placer claim. The adit drains approximately 15 to 20 gpm. The mine drainage was sampled as site DM-78. The waste rock was not sampled.

This mine drainage is an insignificant source of metals to Arrastra Creek. During low-flow and high-flow, the mine drainage produces less than 5 grams of dissolved metals each day. Most of the flow from this adit is believed to be derived from the Little Giant stream. The stream from Little Giant Basin infiltrates into the debris fan above this site then reappears as a series of springs. No reclamation is recommended for this site.

Mill Tailings #40

Scattered piles of mill tailings are located adjacent to Arrastra Creek between the confluence of the two streams from Little Giant Basin (Figure 39). All the mill tailings are located on the west side of Arrastra Creek at LAT. N37°48'56.7", LONG. W107°37'05.6" at an elevation of 9,960 feet. The mill tailings pile is believed to be on the Adams Placer claim. The mill tailings pile was sampled as site #40.

The scattered mill tailings piles contain approximately 500 cubic yards of gray to yellow silt and sand sized material. There may be more mill tailings covered by debris flow material or mixed in the alluvium of Arrastra Gulch. The mill tailings are eroded during high-flow events when Arrastra Creek braids in this flat part of the valley. The mill tailings are mildly acid forming with high concentrations of copper and zinc. Selected results from the leachate analysis are given below.

Tailings Site #40

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb ppb	Zn ppb
4.61	75	53	228	2319	BDL	3034	2454	35816

The mill tailings should be removed from the valley bottom and disposed in a relatively dry location. One possible disposal site is in the colluvium adjacent to the access road into this site. This site is located near the crushed quonset building.

Royal Tiger Mine

Location

The Royal Tiger Mine is located in upper Arrastra Basin on the southeast side of Silver Lake at an elevation of approximately 12,320 feet. Access to the mine is by foot only. This site is believed to be on the Royal Tiger claim. This site was sampled as water quality station DM-63 and waste rock sampling site #50 (Figure 39). The site is located at LAT. N37°47'18.7", LONG. W107°36'13.6".

Geology and Mine Workings

The Royal Tiger Mine is believed to have developed the southeastern extension of the Nevada-Silver Lake structure. The Tiger Vein strikes N35°W and dips NE 80° to 75°, which is steeper than the Silver Lake vein farther northwest. Underground workings in the Royal Tiger extend upwards on the vein on at least 10 levels, with extensive stoping continuing between nearly all levels, and holed to surface in several areas (Figure 40). On the lower levels of the mine, the vein is split into two branches, separated by 30 to 40 feet of barren rock. These branches converge in the upper workings, separated only by irregular stringers of country rock (Burbank, 1933). The structure continues southeastwards, where adits driven into the headwall of Royal Tiger Basin, also connected with it. It dies out on the upper slopes of the ridge between Royal Tiger and Spencer Basins. The vein produced lead ore containing some tetrahedrite, and rare gold. Ransome reported one specimen from the mine had visible gold (Ransome,1901).

The Royal Tiger main adit level is about 164 ft above the lake surface, at an elevation of 12,360 ft. The portal is collapsed, but has a 3 "steel drain pipe coming through the caved materials, which continues to discharge to Silver Lake. Two other short adits near lake level have been mostly covered over by waste rock from the huge main adit dump.

About 800 feet in from the portal on the main level, maps show a winze that connects with two deeper levels. These levels are driven at a depth below that of the water level in adjacent Silver Lake.

Mine Wastes:

The waste rock pile contains approximately 18,000 cubic yards yellow waste rock containing chalcopyrite, galena, pyrite and sphalerite. The waste rock pile covers a large area due to the

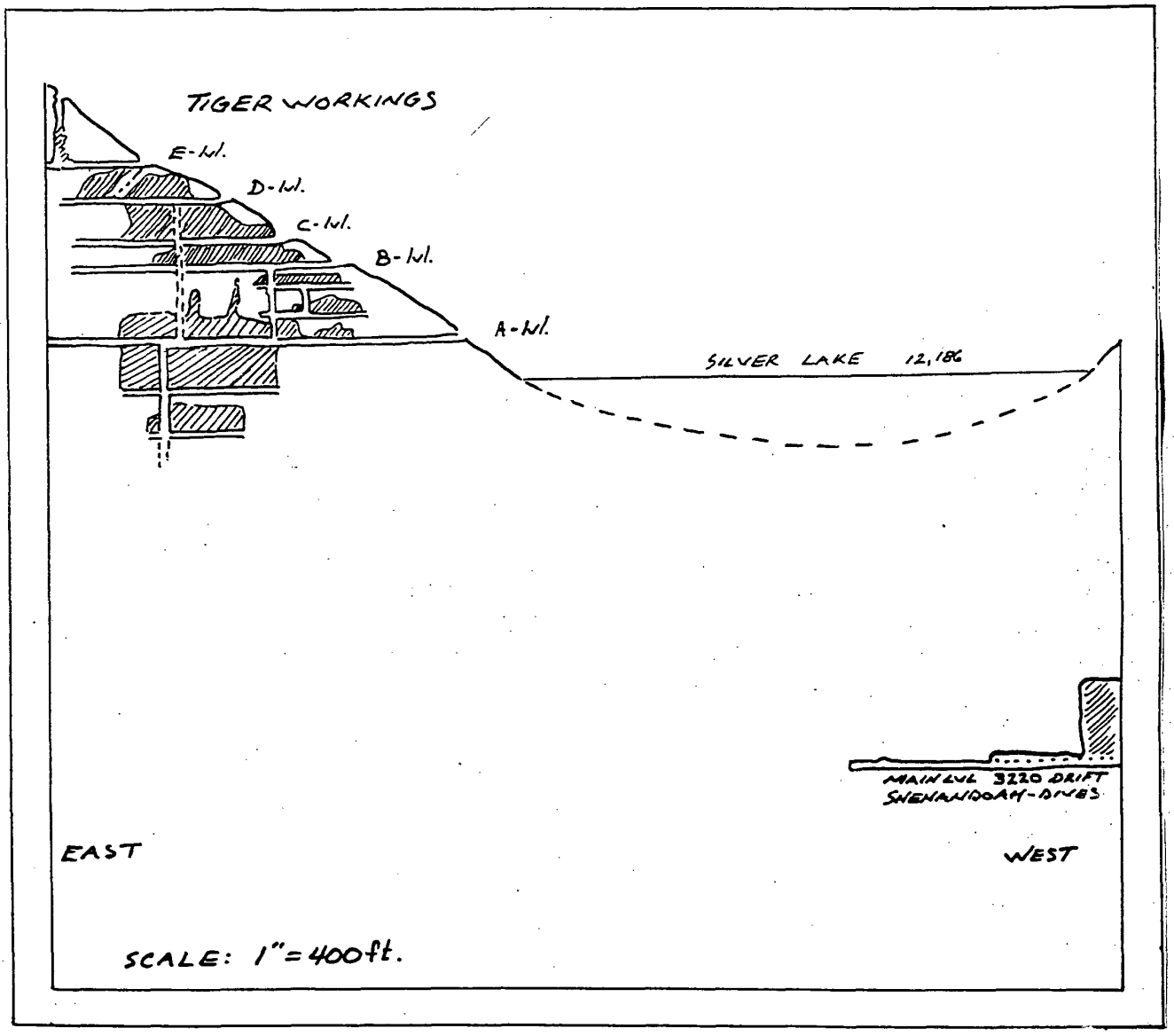

Figure 40. Stope map of the Royal Tiger Workings, Silver Lake area

Reproduced from Shenandoah-Dives Mining Co., Progress Report for the Silver Lake Unit, 1952

steep slope surrounding the mine. Leachate results show this waste to be high in copper, lead and moderately high in zinc. There is some flow from the slopes above that enters this pile. There is a small vegetation kill zone below the waste rock pile. Selected results from the leachate analysis are given below.

Royal Tiger Mine

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb ppb	Zn ppb
4.49	10.2	112	9	168	12	791	7612	1335

Historic Structures

The remains of a loadout structure and the portal structure are partially standing. The mill structure has been virtually demolished by avalanches. There are considerable pieces of equipment and other scattered debris.

Geologic Constraints to Reclamation

The site is virtually inaccessible to any kind of heavy equipment. Avalanche and rockfall hazard is severe. Any reclamation work will have to be done using materials and equipment packed in on the steep old pack trail, or via helicopter lifts. There is no soil or unconsolidated materials, other than talus and mine waste rock.

Water Quality Impacts

Water quality impacts from this site come from the mine drainage and the waste rock. The waste rock contributes metal during snow melt and thunderstorm events. Snowmelt at this elevation occurs over a 2 to 3 month period, so the impacts from this pile could be significant.

The drainage from this mine is conveyed from the mine adit by an iron pipe to the southwest side of the waste rock pile. There is a large vegetation kill zone below the end of the pipe. The mine drains between 3 to 50 gpm of acidic water. The dissolved copper loading from this mine site is larger than measured in-stream below Silver Lake. Also, during low-flow, the zinc loading from this site is larger than measured below Silver Lake, indicating that some of the metals are precipitating in Silver Lake. Compared to all the other identified mining related sources of metals in the Animas River below Eureka, this site produces over 15% of the dissolved metals and over 16% of the zinc during high-flow. During low-flow, this mine produces slightly over 1% of the dissolved metals. The measured metal loadings from this mine are given below.

Sampling Station DM-63

Flow Regime	Diss. Al g/day	Diss. Cd g/day	Diss. Cu g/day	Diss. Fe g/day	Diss. Pb g/day	Diss. Mn g/day	Diss. Zn g/day
Low -Flow	98.16	0.64	23.87	5.87	37.79	110.60	168.20
High-Flow	2409.81	19.79	359.73	215.24	371.41	1470.16	3057.06

Reclamation Options

Reducing the metals contribution from this site will be difficult and costly. Access to the site is poor, plus deep snow makes reclamation feasible only during late July, August, and September. A diversion structure should be constructed to divert upland runoff away from the waste pile. The diversion structure can be constructed by hand, if necessary.

The mine workings of this mine should be investigated to determine whether all or a portion of the mine drainage can be eliminated. If the flow cannot be eliminated, there is the possibility that water entering the mine workings can be conveyed out the mine before it becomes contaminated.

Treatment of the mine drainage would be problematic because of the severe winters in this area. A settling pond could be constructed to remove a portion of the metals. This could be done by lifting a small excavator into the site using a helicopter. An anoxic limestone drain would add to the effectiveness of the settling pond. All materials for the anoxic limestone drain would have to be conveyed by helicopter. All the other treatment methods considered in this report would not be cost effective.

Iowa Mine

Location

The Iowa Mine is located in upper Arrastra Basin on the west side of Silver Lake at an elevation of approximately 12,210 feet. Access to the mine is by foot only. This site is believed to be on the Melville or Lake claim. Three mine drainages were sampled at this site. The lower draining adit was sampled as water quality station DM-62 and waste rock sampling site #49 (Figure 39). A second adit on the main level was sampled as water quality station DM-79. An upper level draining adit was sampled as water quality station DM-61. The main level site is located at LAT. N37°47'25.1", LONG. W107°36'26.9".

Geology and Mine Workings

The Iowa Mine developed a complex of veins in the footwall of the Silver Lake vein and dike on the west side of Silver Lake (Figure 41). The workings developed the Iowa, Melville, Stelzner, Royal, and Black Diamond veins that dip and strike as shown in Figure 42.

The Iowa main level portal is located 80 feet above lake level on the west side of Silver Lake. The first mill was located adjacent to the portal on the shore of Silver Lake, discharging tailings directly into the lake. The first Iowa mill was replaced just a few years later in 1895 by a more modern, efficient mill in lower Arrastra Gulch (Marshall, 1996). Ore was delivered from the Iowa Mine via an aerial tram system to the mill in lower Arrastra Gulch.

Adits on at least three upper levels, (Iowa B, C, and D levels), were driven into the west basin wall between Kendall Peak and Round Mountain to develop other veins as noted above (DM-61, MW #48). Extensive stoping was carried nearly to surface along several sections of the veins in the upper workings, and there are numerous breached and open stope workings, as well as open shafts along the structure and its associated branching veins (Figure 43). It is probable that much of the discharge from the draining adits just above lake level enters shafts and collapsed stopes as snowmelt and infiltration from the big snowfield that lies above the workings at the foot of Kendall Peak. This snowfield persists well into summer in most years.

Lower levels of the vein complex were mined through the Silver Lake Crosscut after 1942. On this level, the Iowa vein appears to have merged with the East Iowa, and the Melville, Black Diamond and Royal veins cannot be differentiated (Varnes, 1963). An ore shoot several hundred feet in strike length on the Iowa Vein complex was mined upwards over 700 feet from above the intersection with the Silver Lake Crosscut. At least 10 different levels were developed on this shoot in the 1940's, extending to above the old Iowa "B"-level in the mountain adjacent to the lake.

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Page 105 of 237

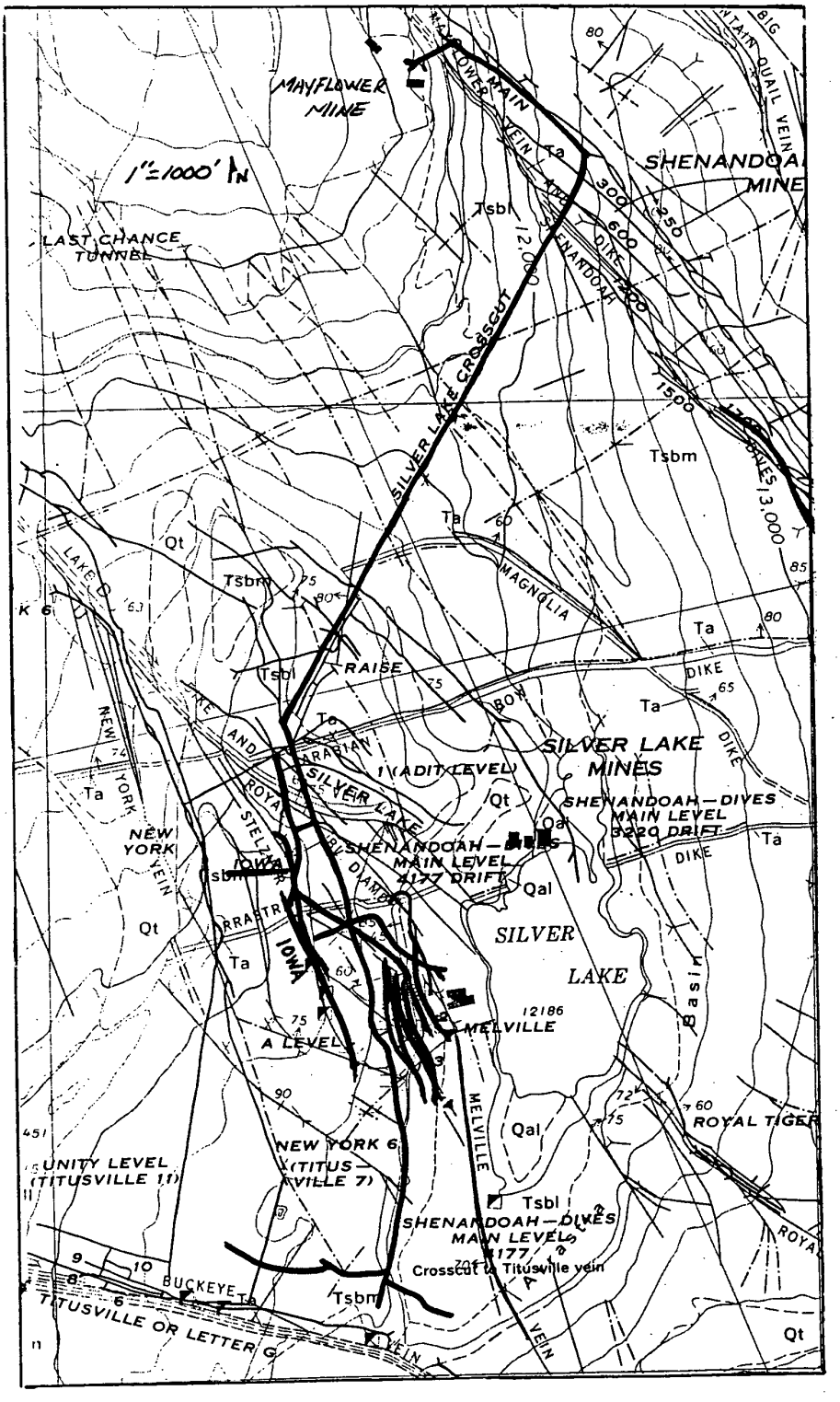

Figure 41. Map showing workings on the Iowa and Melville Veins

Heavy lines show workings and connection to Silver Lake Crosscut. From Varnes, 1963

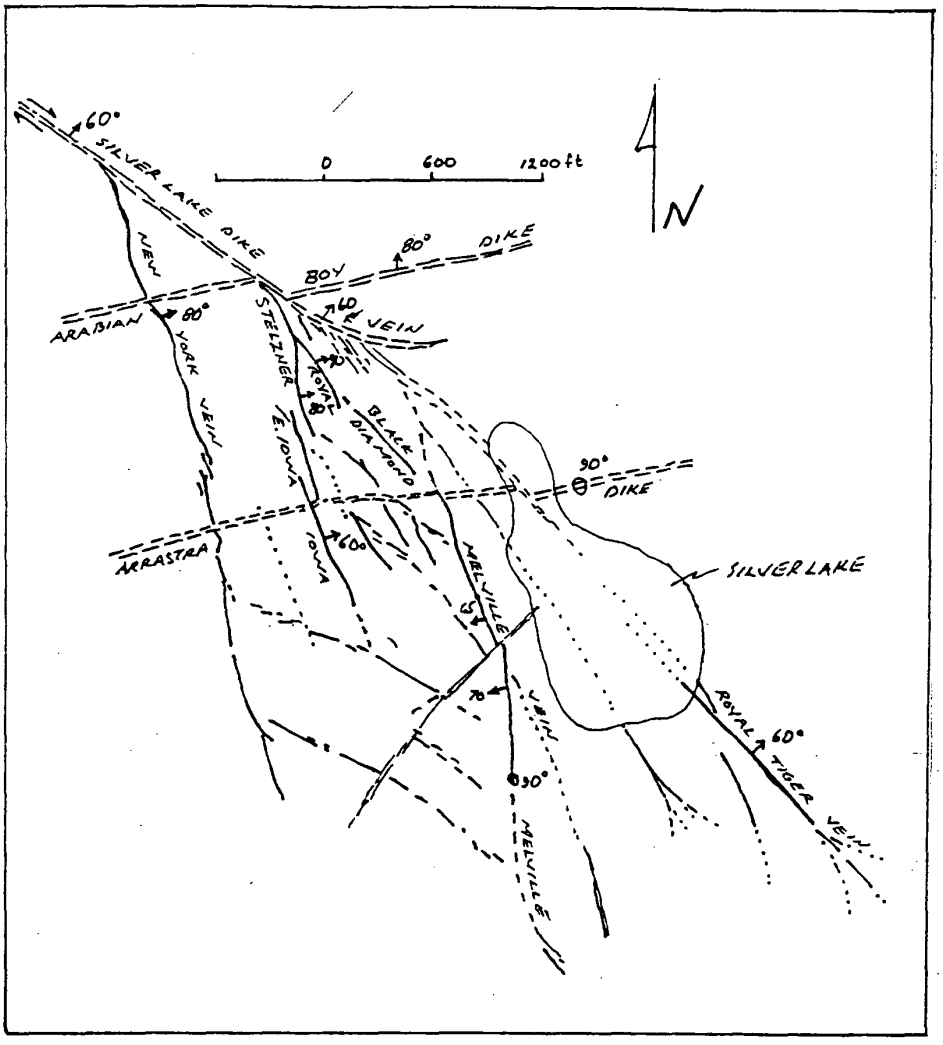

Figure 42. Detailed map of the Iowa-Melville vein complex, Silver Lake area

Reproduced from Burbank, 1933, Fig. 2

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Page 107 of 237

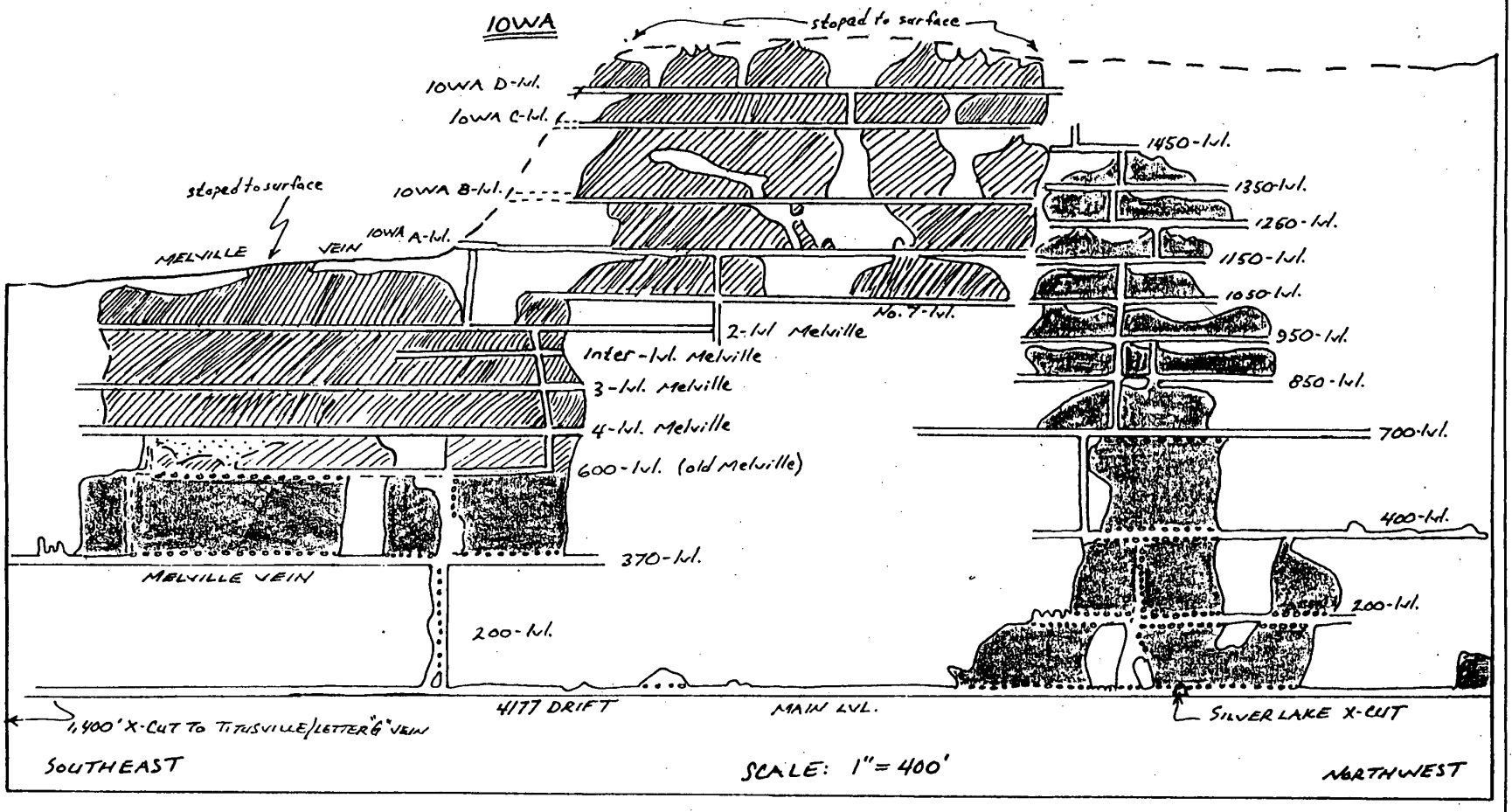


Figure 43. Stope map of part of the Iowa-Melville Vein, Arrastra Basin

Reproduced from Shenandoah-Dives Mining Co., Progress Report for the Silver Lake Unit, 1952

In 1953 and 1954, under contract for the Defense Mineral Exploration Administration, (DMEA), the 4177 drift along the Melville vein off the Silver Lake Crosscut level was extended 1,400 feet further southwards, crosscutting to the Titusville vein. Deep exploration of this structure included 1,620 feet of drifting and 1,200 feet of core drilling, but only very low grade mineralization was found, and the project was discontinued in 1954.

Mine Wastes:
Several large waste rock piles remain on the slopes above Silver Lake, and fine sandy mill tailings are visible on the bottom of Silver Lake at the Iowa mill site. Upper dumps above the level of glacial scouring had abundant secondary copper mineralization, including azurite, cuprite, and tenorite(?), with crystalline calcite. Thick, crusty gossan-stained zones mark the positions of the veins above the ice level on Kendall Peak.

The waste rock pile at the lower adit contains approximately 27,000 cubic yards of gray to yellow waste rock containing chalcopyrite, bornite, sphalerite and some galena. The main level waste rock pile extends into Silver Lake. There is considerable flow onto the waste rock pile from the slopes above, and the mine drainage from station DM-62 flows over and through the waste rock. There are waste rock piles located on several levels above the main haulage level. All the waste piles have similar mineralogy. Leachate results show this waste to have a moderately high zinc level. Selected results from the leachate analysis are given below.

Iowa Mine

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb ppb	Zn ppb
5.01	9.4	BDL	66	14	5	1958	1024	4982

Historic Structures
The mill structure has been demolished by avalanches, but as at the Silver Lake Mine, there is a lot of remaining mill machinery, tools, and artifacts. A great deal of old metal artifacts and equipment can be found, including drill parts, drill steels, shovels, containers, tram parts, and steam boilers, piping, fittings, rails, and hand tools. A complete historic survey should be completed before disturbing this site.

Geologic Constraints to Reclamation
The site is virtually inaccessible to any kind of heavy equipment. Avalanche and rockfall hazard is severe. Any reclamation work will have to be done using materials and equipment packed in on the steep old pack trail, or via helicopter lifts. There is no soil or unconsolidated materials, other than mine waste rock. There is a rock cliff between the mine site and Silver Lake, making it difficult to obtain room for any cleanup effort.

Water Quality Impacts
Water quality impacts from this site come from the mine drainage and the waste rock. Adit DM-61 was dry during the low-flow period and was flowing approximately 1 gpm of pH 4.9 water during high-flow. Flows measured at adit DM-62 varied from less than 1 to 45 gpm. The pH of the drainage from adit DM-62 was 3.2 during high-flow and 7.3 during low-flow. Adit DM-79 had measured flows of between 1 and 20 gpm of near neutral drainage.

A portion of the drainage from adit DM-62 appears to come from runoff water entering shallow workings near the mine entrance. When the snowfield immediately above the adit melts late in the summer, there is evidence of partial cave-ins where water can enter the mine workings. Compared to all the other identified mining related sources of metals in the Animas River below Eureka, the three draining mines at this site produce less than 1% of the dissolved metals of the zinc during high-flow and low-flow. The measured metal loadings from this mine are given below.

Sampling Station DM-61

Flow Regime	Diss. Al g/day	Diss. Cd g/day	Diss. Cu g/day	Diss. Fe g/day	Diss. Pb g/day	Diss. Mn g/day	Diss. Zn g/day
High-Flow	1.42	0.15	5.23	0.08	27.42	4.26	27.19

Sampling Station DM-62

Flow Regime	Diss. Al g/day	Diss. Cd g/day	Diss. Cu g/day	Diss. Fe g/day	Diss. Pb g/day	Diss. Mn g/day	Diss. Zn g/day
Low -Flow	BDL	0.01	0.05	BDL	0.04	0.03	2.15
High-Flow	BDL	0.37	3.82	3.97	5.19	4.91	94.63

Sampling Station DM-79

Flow Regime	Diss. Al g/day	Diss. Cd g/day	Diss. Cu g/day	Diss. Fe g/day	Diss. Pb g/day	Diss. Mn g/day	Diss. Zn g/day
Low -Flow	1.93	0.23	1.97	0.28	4.74	0.66	36.50
High-Flow	7.37	2.10	27.60	BDL	43.30	9.43	477.91

The waste rock contributes metal during snow melt and thunderstorm events. Snow melt at this elevation occurs over a 2 to 3 month period, so the impacts from this pile could be significant, especially since there is a long period where water runs onto the main level pile as the snow field above melts.

Reclamation Options

Reducing the metals contribution from this site will be difficult and costly. Access to the site is poor, plus deep snow makes reclamation feasible only during late July, August, and September. A diversion structure should be constructed to divert upland runoff from the snowfields away from the waste pile. The diversion structure can be constructed by hand, if necessary.

The drainage from the upper adit, sampled as site DM-61, is a minor source of metals. No reclamation of this site is recommended. The main level mine workings should be investigated to determine whether all or a portion of the mine drainage can be eliminated. If there are shallow inflows from the area where partial cave-ins were observed, the ground surface overlying the workings should be sealed to prevent infiltration into the mine workings. If the flow cannot be eliminated, there is the possibility that some or all of the water entering the mine workings can be conveyed out the mine before it becomes contaminated.

Silver Lake Mine

Location

The Silver Lake Mine is located in upper Arrastra Basin on the northwest side of Silver Lake at an elevation of approximately 12,236 feet. Access to the mine is by foot only. The open mine adit is not draining. The view at the Silver Lake Mine is dominated by the remnants of the mill and the mill tailings which extend into and across the northern portion of Silver Lake. The mill tailings were sampled as site #47 (Figure 39). The mill tailings site is believed to be on the Grechen or Maxwell claim. The mill tailings site is located at LAT. N37°47'35.5", LONG. W107°36'23.1".

Geology and Mine Workings

Underground workings at the Silver Lake Mine were extensive (Figure 44). The Nevada-Silver Lake vein runs N57°W, dipping N60°E under Round Mountain, and was stoped extensively from at least 6 levels. On surface, the vein is marked by a prominent gossan-stained zone as much as 40 feet wide (Varnes, 1963). This same structure continues southeastward beneath Silver Lake, and is believed to continue in the Royal Tiger workings (Figure 38). From the farthest northwest exposure to the slopes of Round Mountain above Silver Lake, the vein follows the footwall of a prominent andesite quartz-latite dike.

The Silver Lake 1-Adit portal is located 50 feet above the lake level on the southeast side of Round Mountain (Figure 44). It is open, and leads into the main level workings. Silver Lake Mill No. 1 was located adjacent to the portal on the shore of Silver Lake. This was a primitive mill built in 1890, later replaced in 1900 by a more modern, efficient mill "No. 2", in the Animas River valley. Ore was delivered from the Silver Lake mine via an aerial tram system to the silver lake angle station, then on down to Mill No. 2 in the Animas valley below. Stope maps show that ore from the levels above the Silver Lake No. 1 level was mined prior to the 1940's.

The Silver Lake vein ranges in width from 2 to 20 feet. The product has been dominantly a low-grade lead-silver ore, and the principal minerals are pyrite, sphalerite, galena, chalcopyrite, gray copper, and chalcopyrite in a quartz gangue. There is little gold in most of the ore (Varnes, 1963).

In the 1940's, ASARCO contracted with the Shenandoah-Dives Mining Company to drive a 4,200 ft crosscut tunnel ("Silver Lake Crosscut") from their main haulage level to access the lower levels of the Silver Lake Vein, and other veins in the Silver Lake area. The vein was intersected 3,220 feet from the turnoff on the Shenandoah-Dives main level, and drifts were turned in both directions on the vein for a combined 3,000 feet.

Maps from 1952 suggest the upper Silver Lake workings may have been connected to the Silver Lake Crosscut 950 feet below (Figure 45). The "0" Raise was being driven upwards from the intersection of the Silver Lake Vein and crosscut from the Shenandoah-Dives / Mayflower workings. It is not known if the final connection was ever made, but the raise had reached the elevation of the lowest old level, 130 ft. away in 1952. The last time these workings were active was in 1959, when Standard Uranium reopened the Shenandoah-Dives workings, and tried to rework the Silver Lake Crosscut area (Marshall, 1996).

Water draining from the Silver Lake vein into the Silver Lake Crosscut would ultimately empty into the "zero" shaft near the portal of the main level of the Shenandoah-Dives/ Mayflower workings. The main portal of the Mayflower is sealed. The zero shaft would dump water down 400 feet through the "base level", the "-250" level, bottoming below the "-400" level, which is well

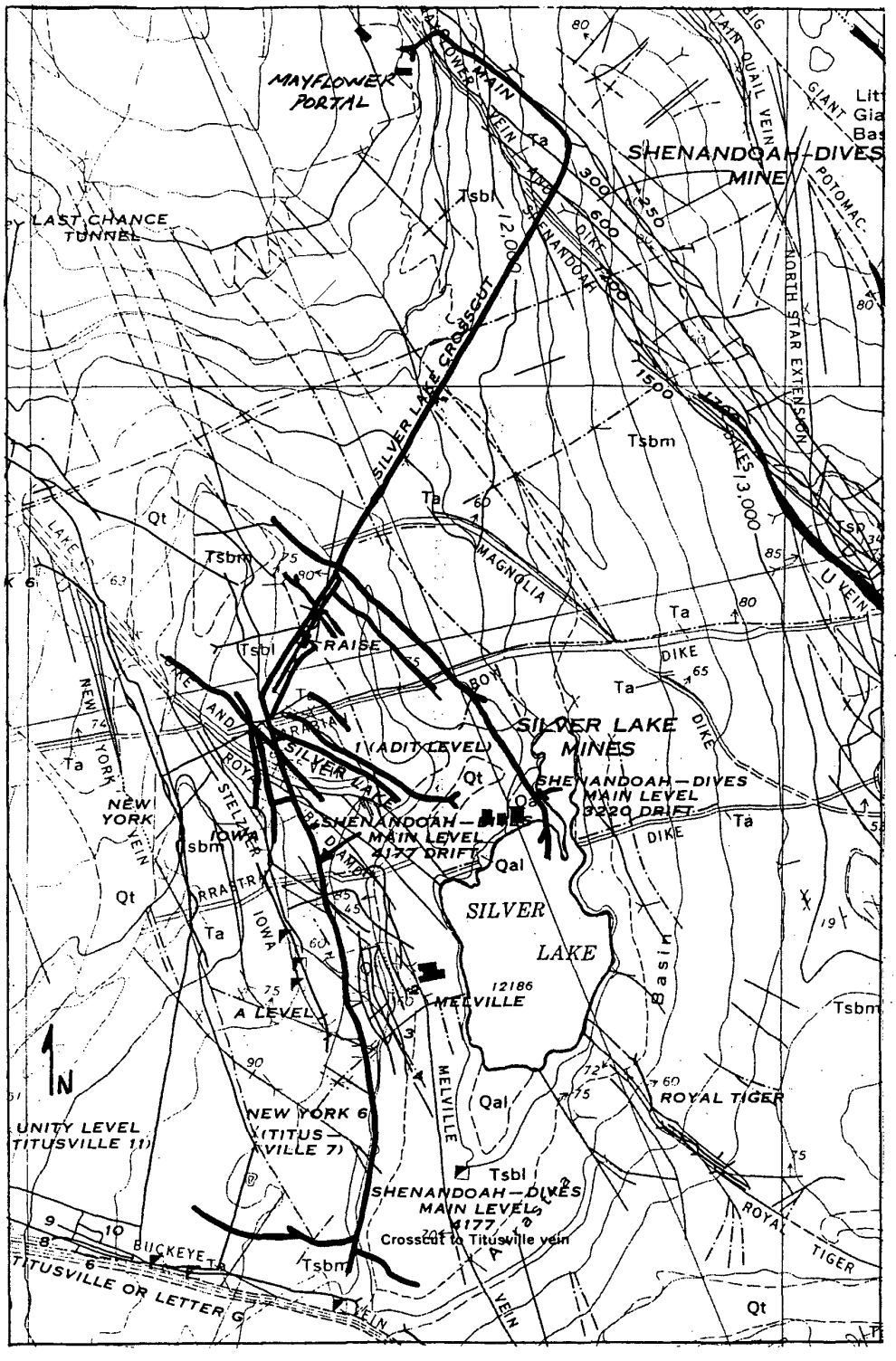


Figure 44. Map of Silver Lake Workings, Arrastra Basin

From Varnes, 1963, Plate 2

Scale, 1 inch = 1,000 ft.

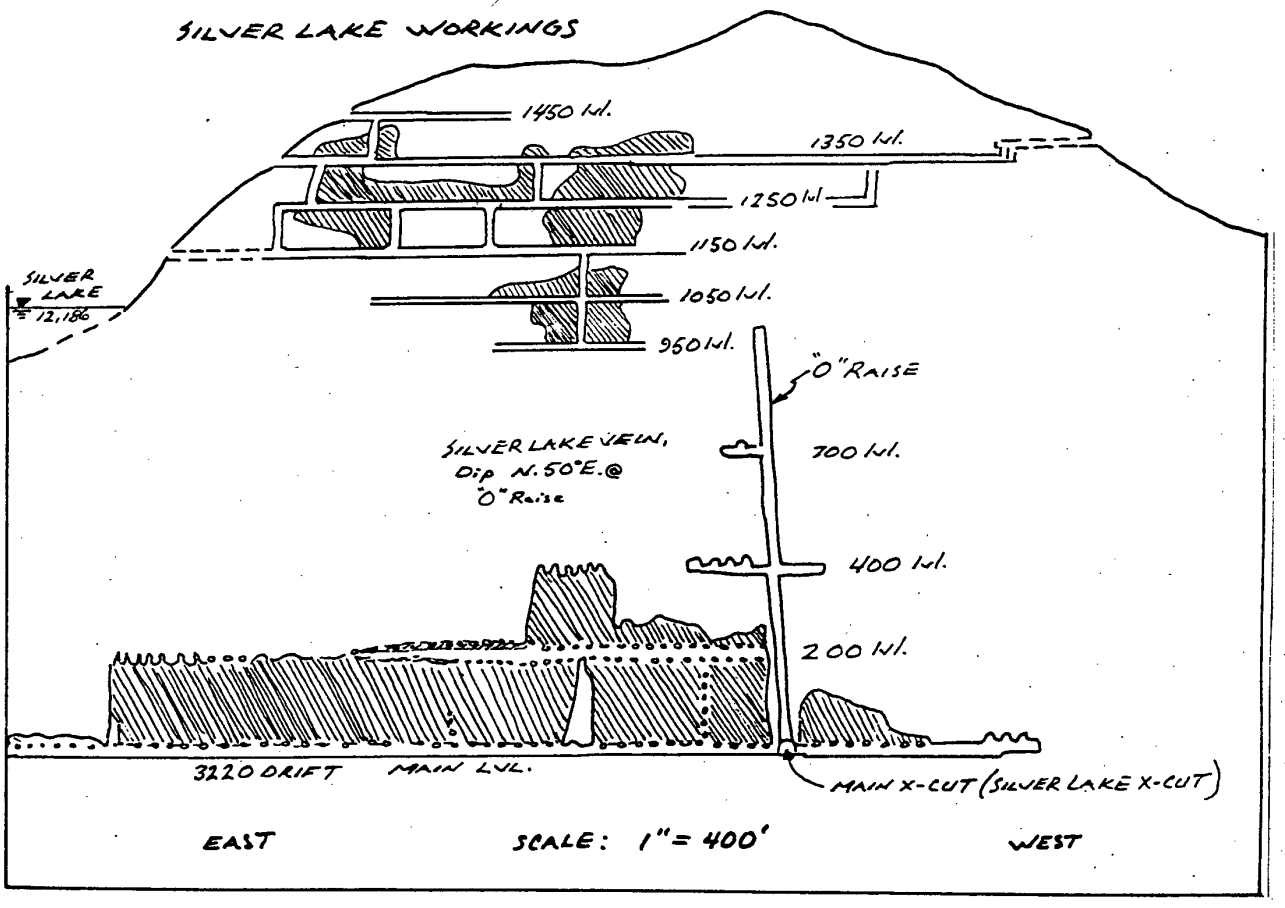


Figure 45. Stope map of part of the Silver Lake Vein, Arrastra Basin

Reproduced from Shenandoah-Dives Mining Co., Progress Report for the Silver Lake Unit, 1952

below the valley floor elevation of lower Arrastra Gulch. Any water from the Silver Lake Mine is thus infiltrating out the bottom of the Shenandoah-Dives Complex into the groundwater system in the country rock.

Mine Wastes:
The mill tailings pile contains approximately 50,000 cubic yards, with most of the tailings being underwater in Silver Lake. Bones from the miners' trash are stained with green copper throughout the surface of the mill tailings. All the remaining historic structures are located on the tailings pile. The mill tailings are moderately high in copper and zinc. Selected results from the leachate analysis are given below.

Silver Lake Mill Tailings

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb ppb	Zn ppb
5.68	3	19	15	65	55	643	110	1729

Historic Structures
There are several structures still standing at this site and numerous remnants of historic structures. Portions of the stamp batteries are still in place although many of the stamps have fallen out of the wooden frames. Some of the tram towers are also still in place. There are many historic structures in varying states of repair, and probably the most complete set of remaining mining machinery, tools, and artifacts of any site in the Silverton District. Owing to the isolation and steep, difficult hike in to the site, there is little opportunity for people to carry things off, and so it all remains. A great deal of old metal artifacts and equipment can be found, including strings of mine cars, drill parts, drill steels, shovels, clothing, containers, milling machinery, car parts, tram parts, and steam boilers, piping, fittings, rails, and hand tools. A complete historic survey should be completed before disturbing this site.

Geologic Constraints to Reclamation
The site is virtually inaccessible to any kind of heavy equipment. Avalanche and rockfall hazard is severe. Any reclamation work will have to be done using materials and equipment packed in on the steep old mule trail, or via helicopter lifts. There is no soil or unconsolidated materials, other than mine waste rock.

Water Quality Impacts
The amount of metals leached from these tailings is unknown. The tailings that are underwater are probably an insignificant source of metals, but the surface of the tailings pile is subject to weathering. There is a large increase in zinc loading below Silver Lake during the high-flow period. Approximately 52% of the dissolved zinc loading can be attributed to the draining mines around Silver Lake. There is also likely to be additional loading from the waste rock piles at the Royal Tiger, Iowa and Silver Lake Mines. However, it is likely that a large portion of the zinc load comes from the Silver Lake Mill Tailings.

Reclamation Options
Reducing the metals contribution from this site will be difficult and costly. Access to the site is poor, plus deep snow makes reclamation feasible only during late July, August, and September. A diversion structure should be constructed to divert upland runoff from the mill tailings and most of the waste rock. Another option is to bury all the mill tailings underwater in Silver Lake. However, this would result in destruction of most of the historic structures at the site.

A non-destructive method to reduce the metals loading would be to cement the tailings in-place to several feet below the water line. However, this cost for injecting the cementing agent would probably approach one million dollars for a small reduction in metals. Because of the high cost of reclamation at this site, no reclamation is currently recommended. Prior to undertaking any reclamation at this site, additional investigations must be done to determine the heavy metals contribution from this site.

Unity Tunnel

Location

The Unity Tunnel is located in the cliffs immediately below Woodchuck Basin at an elevation of approximately 11,600 feet. Access to the mine is by foot only. The Last Chance Tunnel is believed to be connected with the Unity Tunnel. The Last Chance Tunnel is at an elevation of approximately 11,050 feet. The Unity Tunnel is believed to be on the Unity claim. The Last Chance Tunnel is believed to be on the Professor Winkler claim. The Unity Tunnel is not draining, but water is running into the mine through a collapsed drift, then exiting from the Last Chance adit. The drainage from the Last Chance adit was sampled as water quality site WB-3. The stream was sampled above the Unity Tunnel as water quality site WB-2. The waste rock at the Unity Tunnel was sampled as site #45 (Figure 39). The upper adit of the Unity Tunnel is located at LAT. N37°48'11.0", LONG. W107°37'16.3".

Geology and Mine Workings

The Unity Tunnel crosscut adit was driven south 37° W, in under Woodchuck Basin to connect with workings on the Nevada-Silver Lake, and New York vein systems under Round Mountain. There are over 6,000 feet of drift and crosscut workings on this level, which eventually extended all the way to the Titusville vein south of Silver Lake. Extensive stoping occurred on the New York and Silver Lake structures, but apparently not on the Nevada vein. Ore from the Unity Tunnel was sent down to the angle station by aerial tram, then transferred onto a second aerial tram for the trip down to the Silver Lake No. 2 Mill, in the Animas River.

The Unity tunnel has twin portals (Y-shaped) at the surface. The adit is driven just below the contact of the Burns Formation and underlying Eureka Rhyolite at an elevation of 11,600 ft. (Figure 46). The west branch of the Y- portal has collapsed under the stream draining Woodchuck Basin, and was intercepting an estimated 100 gpm or more of stream flow in August. Rockfall and sloughage have partially dammed the mouth of both portal branches, causing the intercepted flow to run back into the workings. It is assumed the intercepted flow runs down into lower workings connected to this level, possibly including the Last Chance workings located below it in the cliffs (Figure 47).

In the 1940's, ASARCO contracted with the Shenandoah-Dives Mining Company to drive a 4,200 ft crosscut tunnel from their main haulage level to access the lower levels of the Silver Lake Vein, and other veins. This connection is known as the Silver Lake Crosscut. The Unity Tunnel is believed to be connected by stopes and raises to the Silver Lake Crosscut leading from the Shenandoah-Dives/ Mayflower workings, so there is the possibility the water may eventually enter deeper levels of those workings via this connection. Water flowing out the Silver Lake Crosscut would ultimately empty into the "zero" shaft near the portal of the main level of the Mayflower workings. The main portal of the Mayflower is sealed. The zero shaft would dump water down 400 feet through the "base level", the "-250" level, bottoming below the "-400" level, which is well below the valley floor elevation of lower Arrastra Gulch. Water from the Shenandoah-Dives/ Mayflower workings is thus infiltrating out the bottom of the Shenandoah-Dives Complex into the groundwater system in the country rock.

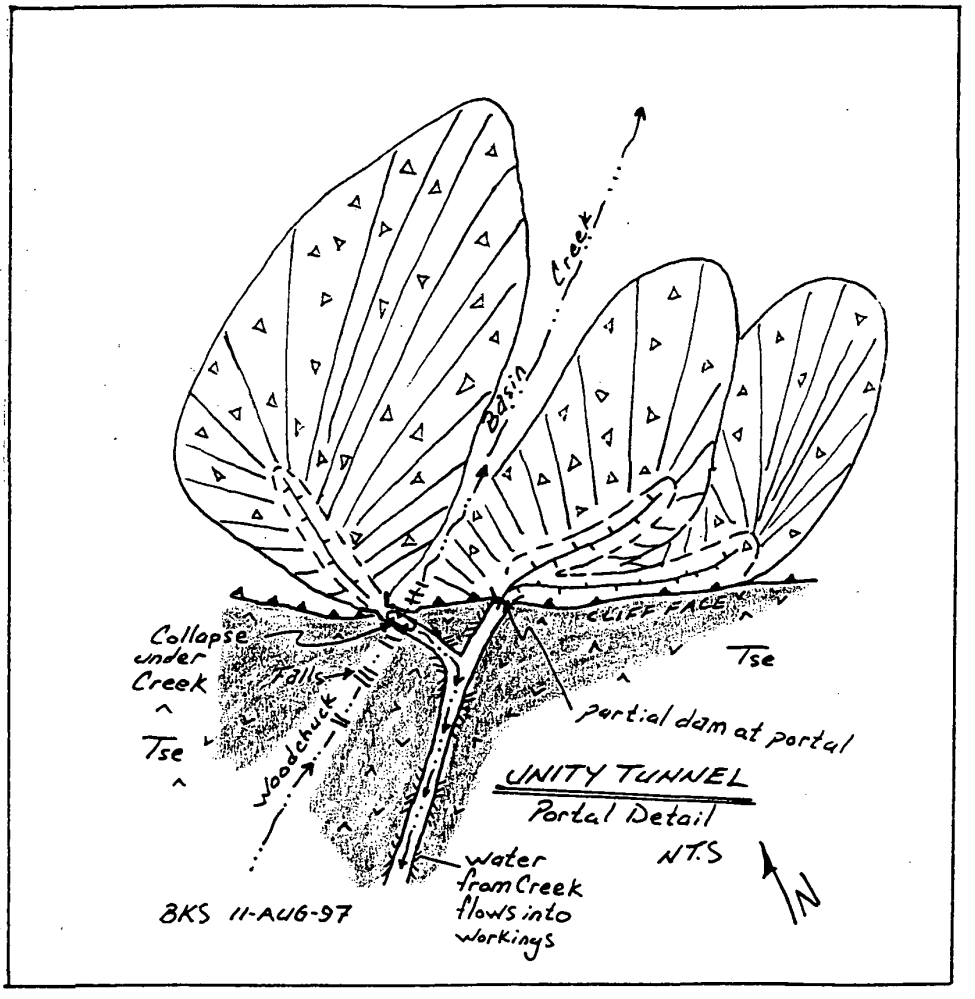


Figure 46. Detail of the Unity Tunnel portal

Collapse under creek collects water; debris at portals causes water to flow back into the underground workings

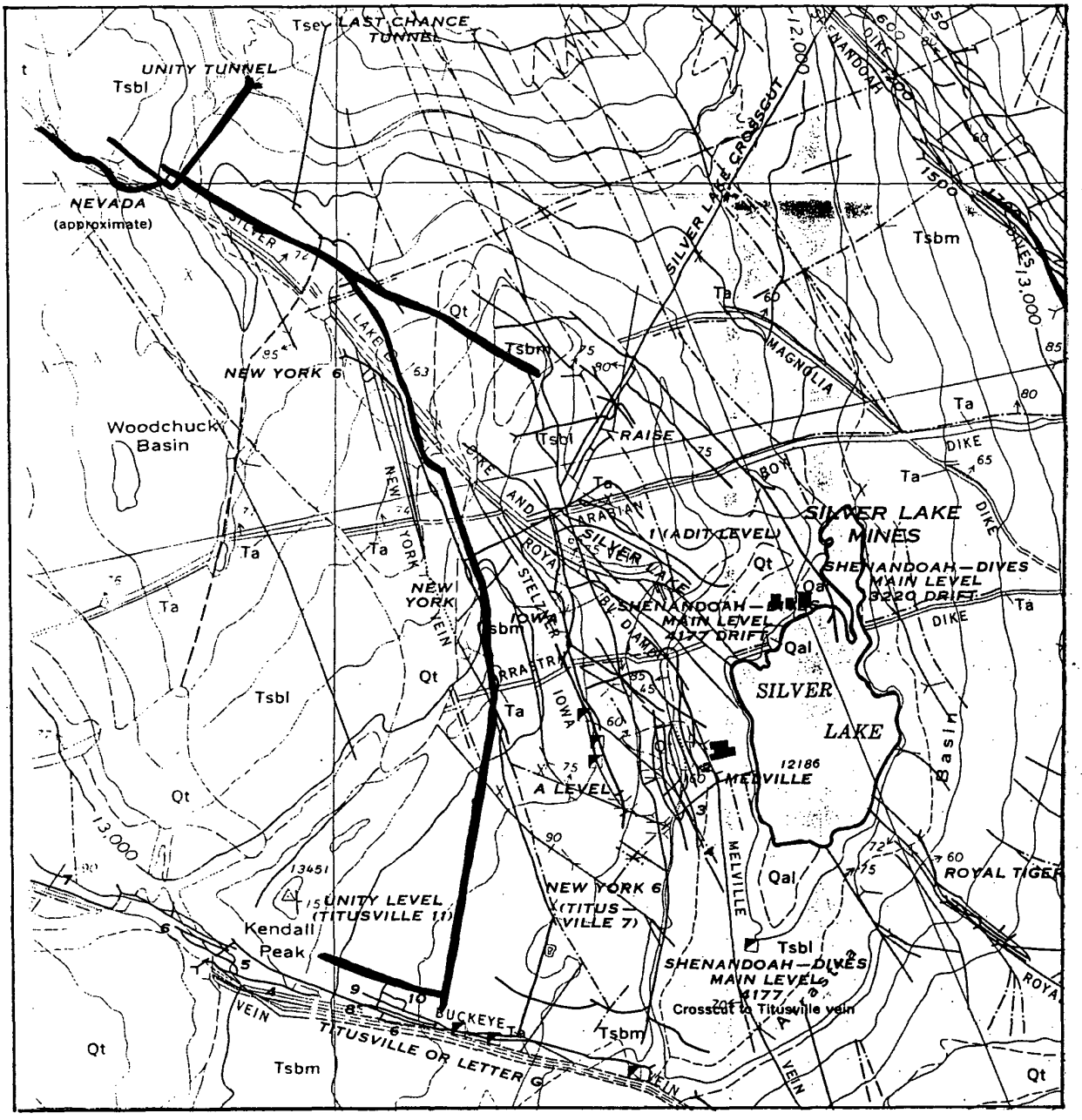


Figure 47. Map of workings on the Unity Tunnel level

Unity Tunnel level shown in bold lines.
From Plate 2, Varnes, 1963

Mine Wastes:
The waste rock at the Unity Tunnel is mostly country rock as is reflected in the leachate analysis. There is some mineralized rock on the waste pile containing chalcopyrite, bornite, some galena and some sphalerite. The waste rock at the lower adit appeared to be completely country rock. The waste rock pile at the upper adit contains approximately 35,000 cubic yards. The stream from Woodchuck basin bifurcates the waste rock pile. The stream has eroded the waste rock down to bedrock. Additional erosion of the pile would only occur during a flood flow or if a portion of the pile slumps into the stream. The waste rock appears to be an insignificant source of metals. Selected results from the leachate analysis are given below.

Unity Tunnel

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb ppb	Zn ppb
5.96	2.4	207	BDL	51	373	326	162	135

Historic Structures
There are remnants of several structures on the site. A great deal of old metal artifacts and equipment remain on the dumps, including drill parts, steels, tools, steel sharpening forge/ hammer set up, car parts, tram parts, and an old steam boiler. There are numerous avalanche shields located near the tunnel site.

Geologic Constraints to Reclamation
The site is virtually inaccessible to any kind of heavy equipment. Avalanche and rockfall hazard is severe, and the site is set in dangerous, steep cliffs. Any reclamation work will have to be done using materials and equipment packed in on the almost non-existent remains of an old pack trail, or via a helicopter. Steep cliffs above the portal might even preclude direct helicopter access.

Water Quality Impacts
Leaching of metals from the waste rock from this site is probably insignificant. During high-flow, the water quality as a portion of the stream flow passes through the mine workings remains relatively unchanged. During low-flow, there is an increase in zinc concentration as water flows through the mine workings. A comparison of the metals concentration is given below:

Sampling Station WB-2

Flow Regime	Diss. Al ug/l	Diss. Cd ug/l	Diss. Cu ug/l	Diss. Fe ug/l	Diss. Pb ug/l	Diss. Mn ug/l	Diss. Zn ug/l
Low -Flow	BDL	BDL	BDL	BDL	BDL	BDL	63
High-Flow	BDL	BDL	BDL	8	3.8	8.1	64

Sampling Station WB-3

Flow Regime	Diss. Al ug/l	Diss. Cd ug/l	Diss. Cu ug/l	Diss. Fe ug/l	Diss. Pb ug/l	Diss. Mn ug/l	Diss. Zn ug/l
Low -Flow	BDL	0.6	6	BDL	9.3	1	130
High-Flow	BDL	BDL	BDL	BDL	BDL	BDL	59

Reclamation Options

The collapsed drift should be sealed to prevent water from entering the mine workings. This seal can be constructed as part of a safeguard to prevent unauthorized access into the mine workings

ANIMAS RIVER BELOW EUREKA

Location

The Animas River is approximately 8.5 miles long between the townsite of Eureka and the confluence with Mineral Creek. The stream elevation varies between 9,840 feet at Eureka to 9,239 feet at the confluence with Mineral Creek.

Animas River Copper

While the concentration of most metals in the Animas River are lower during the high-flow period, measured copper concentrations were higher during high-flow. During low-flow, dissolved copper concentration is generally the highest at Eureka, then drops below detection limits below Maggie Gulch (Figure 21). The dissolved copper concentration remained below detection limits until sampling station LA-9 at the Lackawanna Bridge (Figures 21 and 34). Below Eureka, dissolved copper loading increased through sampling station LA-3 located between Minnie Gulch and Maggie Gulch (Figures 22 and 36). The source of the increased loading is probably the mill tailings located adjacent to the Animas River. Even during low-flow, most of the tailings are saturated.

During high-flow, dissolved copper concentration rises slightly between sampling stations UA-12 and LA-1, which bracket Eureka Gulch, then fall until sampling station LA-6, above Arrastra Gulch (Figures 23 and 35). Below Arrastra Gulch, dissolved copper concentration increases to sampling station LA-8 below Boulder Creek then declines to sampling station A-68, above Cement Creek. Dissolved copper loading increases below station UA-12 to station LA-7 below Arrastra Gulch (Figures 24 and 37). Below sampling station LA-7, dissolved copper loading decreases to A-68, above Cement Creek.

Because flow could not be measured at most of the Animas River sampling stations, overall loading has to be looked at from a broad view. The largest dissolved copper load increase occurred between Eureka and Cunningham Gulch, where there was an increase of slightly over 10 pounds per day. In the stream segment below Cunningham Gulch to immediately below Arrastra Gulch, the increase in dissolved copper loading was slightly less than 10 pounds per day.

Animas River Zinc

In general, dissolved zinc concentration in the Animas River falls below the Eureka townsite during both low-flow and high-flow (Figures 21, 23, 34 and 35). In most cases, zinc concentrations are lower during high-flow than during low-flow.

During low-flow, dissolved zinc concentration was relatively unchanged by the flow from Eureka Gulch. As the Animas River passed through the braided area between sampling sites LA-1 and LA-2, there was again very little change in dissolved zinc concentration. Dissolved zinc

concentrations fell following dilution from the clean streams in Minnie and Maggie Gulch. Below Cunningham Gulch and the Howardsville mill tailings, there was a slight increase in dissolved zinc concentration. With the large diluting flow from Cunningham Gulch, a decrease in dissolved zinc concentration would be expected, indicating that there is a large zinc input from the Howardsville mill tailings. From Howardsville to above Boulder Creek, there was very little change in dissolved zinc concentration. Below Boulder Creek there was a general increase in dissolved zinc concentration to above the Lackawanna Bridge.

During low-flow, dissolved zinc loading increased below the confluence of Eureka Gulch consistent with the zinc load measured in Eureka Gulch (Figure 22). From stations LA-1 to LA-2, there was a measured increase of almost 9 pounds of dissolved zinc per day. Most of this increased load is probably due to the scattered remnants of the Sunnyside mill tailings. A reduction in dissolved zinc loading was measured below Minnie Gulch. This may be due to a portion of the flow going underground, since there was also a drop in total zinc loading. Also, the dissolved zinc load measured at station LA-4 was consistent with the loading from Minnie and Maggie Gulch. Between sampling stations LA-4 and LA-5, there was a measured increase in dissolved zinc loading of almost 30 pounds per day. Most of this increase in loading is probably from the Howardsville mill tailings. Between stations LA-5 and LA-6 there was a measured increase of approximately 7 pounds of dissolved zinc per day (Figure 36). Below Arrastra Gulch, there was a measured increase in dissolved zinc loading of 12 pounds per day. This increase is greater than the loading measured at the mouth of Arrastra Gulch. The source of this increased loading is unknown. Between stations LA-7 and LA-8, there was a slight increase in dissolve zinc loading. Between station LA-8 and LA-9, the dissolved zinc load increased by over 30 pounds per day. The source of most of this zinc is unknown. From station LA-9 to A-68, the dissolved zinc load remained relatively unchanged. At station A-72, the dissolved zinc loading was slightly lower than the combined loads from A-68, CC-48, and M-34, indicating that some dissolved zinc may precipitate in this area.

During high-flow, dissolved zinc concentration above Eureka Gulch was higher than that measured in Eureka Gulch. As a result, dissolved zinc concentration fell below Eureka Gulch, but then increased as the Animas River braided through the wide valley to sampling site LA-2. Dissolved zinc concentrations dropped below the diluting flows from Minnie Gulch, Maggie Gulch and Cunningham Gulch. The dissolved zinc concentration remained relatively unchanged through the canyon between Howardsville and Arrastra Gulch. The dissolved zinc concentration continued to drop to sampling station LA-7, above Boulder Creek, then increased through sampling station LA-9.

High-flow dissolved zinc loading can only be looked at between large segments of the Animas River, because flow measurements could not be taken at many of the sampling sites. Between Eureka and the Howardsville Bridge, there was a dissolved zinc load increase of approximately 392 pounds per day (Figure 24). The tributaries and measured mining sources in this area make up only 43% or approximately 169 pounds of this total. Between the Howardsville Bridge and the Arrastra Gulch Bridge, the dissolved zinc load increased by 17 pounds per day (Figure 37). Virtually all this load increase can be attributed to the flow from Arrastra Gulch. Between the Arrastra Gulch Bridge and the Lackawanna Bridge, the dissolved zinc load increased by 380 pounds per day. The tributaries and measured mining sources in this area make up a load of almost 13 pounds per day or 3% of the total. Between the Lackawanna Bridge and A-68, there was a drop in dissolved zinc load of 312 pounds per day. At first glance, it appears that the measurement at the Lackawanna Bridge (LA-9) is in error. However, the total zinc load between LA-9 and A-68 remained relatively stable, while the dissolved fraction reduced dramatically.

Geologic Setting

From Eureka to Silverton, the Animas River valley is carved in volcanic flows of the Burns Formation. The valley follows the structural margin of the Silverton Caldera along the ring-fault structure, which separates the caldera from the rest of the volcanic field. On the north side of the valley, dacite and rhyodacite flows and breccias of the Burns Formation outcrop from the base of the valley wall to the summits of the highest ridges in the central caldera. On the south side, Eureka Tuff underlying the Burns rocks is exposed in the lower valley walls from Eureka to the mouth of Maggie Gulch.

Most areas of the ring-fracture system are not economically mineralized (Varnes, 1963). Narrow zones of iron and manganese oxides, with stringers of quartz are common on the ring faults, and other structures concentric to the caldera margin. Although many adits were driven to prospect these structures, base metal sulfides were only found in a few areas, and only in small amounts.

At Silverton, the wide, park-like valley occupied by the Animas River is underlain by a late to middle aged Tertiary intrusive stock. This hypabyssal intrusive porphyritic quartz-monzonite stock underlies the valley and both sides of the river from Silverton to the narrow mouth of the canyon at the Champion Mine. It also forms the northern slopes and summit of Sultan Mountain. Along the valley floor, it outcrops at the foot of Sultan Mountain from the Little Dora mine to the Champion mine, the northern half of Anvil Mountain and along the west foot-slope of Kendall Mountain from Silverton to the mouth of the Canyon at the Champion Mine. It is inferred to underlie the broad river valley at Silverton, beneath a relatively thick deposit of river alluvium.

This intrusive body is younger than the volcanic sequence of andesites and dacites- to-rhyodacites that occupy the main part of the Silverton Caldera. The rock was intruded into the southern margin of the caldera along the trend of ring-faults which run beneath the river valley, and which broadly define and separate the caldera structure from the surrounding Paleozoic and pre-Cambrian section. It crosscuts and interfingers with the andesites, dacites, rhyodacites, and volcanic ash-flow tuffs of the caldera, as well as the Paleozoic sedimentary section on Sultan Mountain. Except in thin dikes and veins, the main body of the intrusive was not found in contact with pre-Cambrian rocks at the surface.

In outcrop, the quartz monzonite is medium to fine-grained, with a well-defined joint system. The rock weathers and breaks along sharp uniform joints, which intersect to create a characteristic blocky, angular talus on steep outcrops. The porphyry can often be traced on aerial photographs by the pervasive talus deposits it forms below most outcrops. Outcrops within the body of the unit are generally massive, having joint sets on a larger spacing. Rock exposed along the contacts of the stock are finely veined and shattered, resulting in a higher degree of weathering and an almost continuous mesh-like pattern of macro-fractures.

The brecciated, shattered nature of the intrusive contact in some areas, combined with crosscutting relations along associated veins and dikes, suggests a dilative, forceful intrusion of the stock into the margin of the Silverton Caldera, and adjacent Paleozoic section. This highly jointed structural fabric, intrusive post-caldera relationship of the stock, as well as its position between the caldera and the Precambrian section down stream, suggest the stock could have an important structural association to groundwater flow systems associated with the Animas River before it enters the canyon below Silverton.

A narrow section of lower Mississippian, upper Devonian and upper Cambrian sedimentary rock is exposed in a steeply plunging narrow band on the canyon walls of the Animas River in the vicinity of the Champion Mine. This thin remnant of the basal Paleozoic section is buried under the alluvial valley floor of the river where it crosses beneath the axis of the valley at the Champion Mine. The section continues in a narrow band along the southwestern slopes of Kendall Mountain on the east side of the canyon, between the pre-Cambrian Irving group and the overlying volcanic tuffs and flow-rocks of the Silverton Caldera that form Kendall Mountain. There are numerous pits and quarries in the carbonate members of the section in this area.

Paleozoic formations in the lower section include the Leadville Limestone, Ouray Limestone and Elbert Formation, and the Ignacio Quartzite. The Ignacio can be traced along a pre-Cambrian angular-unconformity in the cliffs above the canyon all the way to Elk Park.

From the east shoulder and upper slopes of Sultan Mountain southward, the upper Paleozoic section occupies the broad "Molas Pass Plateau", on the west side of the Animas Canyon to Elk Park. These sedimentary sandstone, shale, and limestone rocks include the lower Permian and Pennsylvanian Rico, Hermosa, and Molas formations. Molas Creek drains a watershed underlain by these carbonate and clastic sediments

The Animas River canyon is cut in pre-Cambrian rock units from just inside the mouth of the canyon at the Champion Mine, all the way to Rockwood, near Hermosa. From railroad milepost 495.25 to Elk Park, the canyon is cut in pre-Cambrian meta-sedimentary and meta-volcanic gneiss, amphibolite, schist, slate, and quartzite. The section to Elk Park includes the Irving Formation, and the Uncompahgre Quartzite. Where the Animas River valley encounters the resistant pre-Cambrian rock section, the river is abruptly forced into an extremely steep–walled canyon.

An angular unconformable erosion surface forms the contact between the Precambrian section and the overlying upper-Cambrian Ignacio Quartzite. The erosion surface can be traced along the west canyon walls downstream of the Champion Mine. It is characterized by a smooth, undulating surface carved in the meta-sedimentary Irving Formation, beneath a quartz-cobble and pebble conglomerate at the base of the Ignacio sediments. Locally, the contact has been structurally offset several feet across younger vein/ dike structures associated with the porphyry intrusive on the flanks of Sultan Mountain, indicating a dilative emplacement of the veins. In all areas examined, compositional layering of the underlying Irving metamorphic complex is sharply discordant to the overlying Cambrian sediments.

Surficial Geology

A thick deposit of glacial outwash and alluvium underlies the flat, broad floor of the Animas River valley from Eureka to Howardsville. Braided sections of the stream in this reach indicate the fluvial process is dominated by an abundance of sediment. Large debris and alluvial fans cover the valley floor at the mouths of all the steeper tributary gulches on both sides of the valley, including at Minnie and Maggie Gulches, and Porcupine, Brendel, Otto, Cataract, Hematite, Swansea, Idaho and Boulder Gulches.

Downstream from Howardsville to below the confluence of Arrastra Gulch, the river enters a narrow bedrock canyon section carved into the valley floor. On the lower valley slopes in this canyon reach are extensive deposits of glacial till and colluvium. The hummocky deposits form heavily forested, bench-like shoulders above the valley bottom along the footslopes of King Solomon, Hazelton, and Kendall Mountains. These deposits also mantle the lower slopes of

Storm Peak and Anvil Mountain on the north side of the valley at Silverton, near the cemetery. Alluvium and outwash again underlie the wide valley floor at Silverton from the confluence of Cement Creek to the mouth of the Animas Canyon at the Champion Mine.

Animas River Site Descriptions

Mine sites in this area selected by DMG and ARSG for reclamation feasibility studies include: the Eureka Mill Tailings, mill tailings near the mouth of Minnie Gulch, the Kitti Mack mill tailings, the Auburn Tunnel, an unknown mine sampled as site DM-37, an unknown mine sampled as site DM-38, the Hamlet Mine, the Howardsville mill tailings, the Progressive Mine, the Silver Star Mine, the Little Nation Mine, the Joseph Neff Mine, the Valley Forge Mine, mill tailings near the Mayflower Mill, the Aspen Mine, the Blair Mountain Tunnel, mill tailings at the mouth of Blair Gulch, the Last Chance Mine, the Mighty Monarch Mine, ARD-3, ARD-4, and the Little Casino Mine. These sites are shown on Figures 3 and 6. The mines are situated on privately owned patented mining claims and public land. Coordinates of each site are given in the individual site descriptions, which follow below.

Whereas the mining wastes in the Animas River above Eureka are probably a minor source of heavy metals, the mining wastes, particularly the mill tailings, below Eureka appear to play a major role in water quality. The draining mines below Eureka appear to be, overall, minor sources of heavy metals compared to the mill tailings. Several of the draining mines contribute minimal or insignificant quantities of heavy metals. These sites include the Progressive Mine, the Silver Star Mine, the Joseph Neff Mine, the Valley Forge Mine, the Little Casino Mine, the Blair Mountain Tunnel, the Last Chance Mine, the Idaho Mine, and the Champion Mine. Each of these sites will be discussed briefly below. The remaining sites will be discussed in detail below.

Progressive Mine

This mine is located directly north of the Howardsville tailings impoundments on a south facing slope (Figure 4). There is an old mining road leading to the site. The mine drainage was not sampled during low-flow because there was only seepage from the mine adit. The mine site is located at LAT. N37°50'32.6", LONG. W107°35'42.5" at an elevation of 10,160 feet. The site is believed to be on the Progressive claim. The draining adit was sampled as water quality site DM-42. The waste rock pile was sampled as site #18.

The mine drains from 0 to 98 gpm. This mine drainage is a minor source of metals. The mine drainage produces less than 40 grams of metals per day, most of which is zinc. The mine drainage passes over a portion of the waste rock pile, then infiltrates into the talus below. Natural processes probably remove some of the heavy metals as the water moves through the talus. The waste rock at this site does have elevated levels of zinc. There probably is minimal leaching of zinc from the waste rock in the short, moss-lined channel leading from the mine adit. The mine site is relatively dry, so leaching of metals from precipitation is probably minor. No reclamation is recommended for this site.

Silver Star Mine

The Silver Star Mine is located approximately 100 yards northeast of the confluence of Hematite Gulch and the Animas River (Figure 4). There is a well-traveled dirt road to the site. The mine site is located at LAT. N37°50'18.6", LONG. W107°35'49.5" at an elevation of 9,720 feet. The draining adit is believed to be on the Silver Star or Bonanza claim. The adit drains approximately 46 to 85 gpm. The mine drainage was sampled as site DM-43. The waste rock was not sampled because it appeared to be principally country rock mixed with colluvium.

This mine drainage is an insignificant source of metals to the Animas River. During both low-flow and high-flow, the zinc concentration in the mine drainage was lower than the NEC. No reclamation is recommended for this site.

Joseph Neff Mine

The Joseph Neff Mine is located on the south side of the Animas River near the beginning of the narrow canyon between Howardsville and Arrastra Gulch (Figure 5). The mine is accessed by wading the Animas River. Dense willows prevent access to this site along the south side of the river from Howardsville. The draining mine was not sampled during June or July, 1999 because of high flow in the river. Mine drainage was observed to be flowing from the adit during this time. The mine site is located at LAT. N37°49'45.9", LONG. W107°36'38.2" at an elevation of 9,560 feet. The draining adit is believed to be on the Joseph Neff claim. The adit was draining approximately 6 gpm during low-flow. The mine drainage was sampled as site DM-75. The waste rock was not sampled.

This mine drainage is a minor source of metals to the Animas River. During low-flow, the mine drainage produced less than 75 grams of metals per day. The mine drainage is principally a source of iron and manganese. The mine drainage does not contact the waste rock pile. The mine drainage is intercepted by the remnants of a flume and passed around the site into a wetland area. No reclamation is recommended for this site.

Valley Forge Mine

The DM-57 approximately 50 yards northeast of the Arrastra Gulch Bridge. The mine site is located at LAT. N37°49'41.5", LONG. W107°37'27.9" at an elevation of 9,600 feet. The draining adit is believed to be on the Valley Forge Extension claim. The adit drains approximately 50 to 240 gpm. The mine drainage was sampled as site DM-57. There is virtually no waste rock at this site.

This mine drainage is an insignificant source of metals to the Animas River. Iron and copper concentrations were below detection limits during both high-flow and low-flow. Zinc concentrations were well below the NEC during high-flow and low-flow. No reclamation is recommended for this site.

Little Casino Mine

The Little Casino Mine is located northeast of the Christ of the Mines shrine north of Silverton. The mine site is located at LAT. N37°49'01.3", LONG. W107°40'14.6" at an elevation of 9,880 feet (Figure 5). The draining adit is believed to be on the Little Casino claim. The adit drains approximately 0.5 gpm. The mine drainage was sampled as site DM-73. The waste rock was sampled as site #56.

This mine drainage is an insignificant source of metals to the Animas River. The mine drains less than 0.5 gpm, resulting in an insignificant metals load. However, there is a pond located below this mine that appears to be mine drainage water. The mine drainage may be entering a fracture system and flowing under or through the waste rock pile. The source of this water should be investigated further. No reclamation can currently be recommended for this site.

Blair Mountain Tunnel

The Blair Mountain Tunnel is located on the east side of Blair Gulch about 100 yards south of the horse trail along the Animas River (Figure 5). Access to the site is by foot only. The mine

site is located at LAT. N37°49'14.4", LONG. W107°38'15.5" at an elevation of 9,600 feet. The draining adit is believed to be on an unpatented claim. The adit drains approximately 50 gpm. The mine drainage was sampled as site DM-65 The waste rock was not sampled.

This mine drainage is principally a source of iron, and a minor source of zinc. The mine drainage flows over the partially vegetated waste rock pile into a beaver pond, then subsequently into Blair Gulch. By the time the drainage reaches the beaver pond, most of the iron had precipitated. The high iron to zinc ratio probably causes coprecipitation of zinc. No reclamation is recommended for this site.

Last chance Mine

The Last Chance Mine is located along the Swansea Gulch Road (Figure 5). The mine drainage has to flow for approximately ¼ mile before it enters the Animas River. The mine site is located at LAT. N37°48'45.2", LONG. W107°38'43.7" at an elevation of 10,180 feet. The draining adit is believed to be on the Last Chance claim. The adit drains approximately 120 to 125 gpm. The mine drainage was sampled as site DM-66. The waste rock was sampled as site #55.

This mine drainage is principally an iron source, and a minor source of zinc. During low-flow, the zinc concentration was below the NEC. During high-flow, the zinc concentration increased to 70 ug/l. Because of the long flow path to the Animas River, most of the metals are probably precipitated. The steep flow path results in considerable aeration of the drainage, which will help to precipitate the iron and allow for coprecipitation of zinc. No reclamation is recommended for this site.

Idaho Mine

The Idaho Mine is located in Idaho Gulch on the flanks of Kendall Mountain at an elevation of approximately 9,920 feet (Figure 5). The site is accessed by a side road off the Kendall Mountain road. The mine drainage was not sampled in this investigation, but was sampled by CDPH&E in 1991 and 1992 as site # A-69. The waste rock pile was sampled as site #58. The mine site is located at LAT. N37°47'08.6", LONG. W107°39'00.9". The site is believed to be on the Idaho and Idaho No. 1 claims.

The mine drains from 70 to 700 gpm. This mine drainage is a minor source of metals. The principle metal of concern found in the mine drainage is zinc. CDPH&E measured a maximum dissolved zinc concentration of 58 ug/l. The waste rock at this site exhibits elevated levels of zinc and copper. The mine drainage bypasses the waste rock, so there should be very little leaching from the mine drainage. There is also very little run-on water that enters the waste pile from above. No reclamation is recommended for this site.

Champion Mine

The Champion mine is located southwest of Silverton on the west side of the Animas River (Figure 5). The lower adit of the Champion mine is at an elevation of 9,246 feet. The lower adit, known as the Pittsburg Tunnel is accessed by a dirt road off highway 550 west of Silverton. The upper adit, known as the Champion 4 level is located immediately below highway 550 at an elevation of approximately 9,980 feet. Access to the Pittsburg Tunnel is by foot only. The drainage from the lower adit was not sampled in this investigation. The lower adit drainage was sampled by CDPH&E as site A-71 in 1991 and 1992. The drainage from the upper adit was not sampled during low-flow because there was only seepage from the mine adit. The drainage was sampled as site DM-76 during the high-flow event. The mine site is located at LAT.

N37°47'23.3", LONG. W107°40'05.1". The Champion 4 level adit is believed to be on the Dives and Thunder claims. The Pittsburg Tunnel is believed to be on the Bryan and Neglected claims.

The Champion Mine developed veins in the intrusive porphyry stock beneath Sultan Mountain. The intrusive rock is generally well jointed along sharp, planar, persistent surfaces, which intersect to create a continuous system of fractures conducive to ore deposition.

Mineralized, major faults have been discovered and mined within the intrusive stock. Maps of the Hercules and little Dora workings beneath Sultan Mountain indicate northwest-southeast trending veins dipping steeply northeast were mined for hundreds of feet on several levels. These major veins had numerous branching minor fault veins, which were also followed and mined. A nearly vertical joint face exposed for several hundred feet in a cliff outcrop near the Champion workings was mineralized with one inch of quartz, pyrite, sphalerite, and galena, but did not show any signs of shearing or movement between the surfaces prior to mineralization.

The Drainage from both mine adits is minor sources of metals to the Animas River. The drainage from the upper adit is a source of copper and zinc. The watercourse below the upper adit is locally known as Malachite Falls because of the green copper staining along the steep drainage. However, because of the low flow from this adit (0 to 5 gpm), the metals loading from this mine is minor. The mine drainage enters the debris fan at the base of the steep watercourse, then enters a wetland before reaching the Animas River.

The drainage from the lower adit is also a minor source of heavy metals. The adit flows from 60 to 130 gpm. The mine drainage is principally a source of zinc. The maximum zinc concentration measured by the CDPH&E was 330 ug/l. No reclamation is currently recommended for this site.

Eureka Mill Tailings

Location

The Eureka mill tailings consists of scattered tailing piles along both sides of the County Road in the park area below the Eureka townsite. Most of the mill tailings are at an elevation of approximately 9,805 feet. The tailings piles are believed to be principally on the Eureka townsite claims. Water quality stations LA-1 and LA-2 bracketed this site. The mill tailings piles were sampled as site #8 (Figure 7). The stream gravels mixed with mill tailings were sampled as site # 64. The mixed stream gravels and mill tailings are located along the valley bottom north of the remaining piles. The tailings piles east of the road are located near LAT. N37°51'30.5", LONG. W107°34'40.1". The tailings piles west of the road are located near LAT. N37°52'00.6", LONG. W107°34'04.4".

Mine Wastes:

The scattered mill tailings piles cover approximately 3 to 3.5 acres up to 8 feet in depth. Most of the mill tailings are gray in color, but there is some occasional yellow material. Most of the mill tailings contain principally sand-sized material. The scattered mill tailings piles contain approximately 12,500 cubic yards. There is approximately 7,500 cubic yards south of the road and approximately 5,000 cubic yards north of the road. During most of the year, the mill tailings along the south side of the road are saturated. During high-flow, the Animas River braids through these piles, which results in metal being leached. Selected results from leachate testing are given below.

Eureka Mill Tailings

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb ppb	Zn ppb
4.69	72	298	272	495	43	3806	525	39203

The mill tailings eroded from the original pile are mixed with stream gravels throughout the braided portion of the Animas River. The analysis of the leachate from the mixed material shows that there are elevated zinc and manganese in the material. Selected results from the leachate testing are given below.

Eureka Mill Tailings Mixed With Stream Gravels

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb ppb	Zn ppb
6.17	4	272	2	22	218	949	53	578

Water Quality Impacts

These mill tailings are high in leachable zinc and have elevated levels of cadmium, copper and manganese. During low-flow, there is a dissolved zinc loading increase between sampling stations LA-1 and LA-2 of almost 9 pound per day. Most of this increase is probably due to leaching of the mill tailings. The mill tailings on the east side of the road are generally wet throughout most of the year from shallow ground water. During high-flow, the Animas braids throughout the mill tailings piles and the mixture of stream gravels and mill tailings. During high-flow, the water quality samples were taken at different times, but indicate there is an increase in dissolved zinc loading of at least 140 pound per day through this segment. Data collected by the CDPH&E in 1992 and 1993 shows an dissolved zinc load increase of 76 and 73 pounds per day in this segment. The 1992 data was collected in June, but the measured flows were approximately half those measured during this investigation.

The mill tailings on the south side of the road appear to be a larger source of zinc than the mill tailings north of the road. The deeper tailings south of the road exhibited reducing conditions, while all the tailings north of the road were oxidized. Reducing conditions in the mill tailings indicates that a portion of the tailings are wet for a long period. The Colorado School of Mines sampled the surface water and ground water in the tailings south of the road. The surface water was reported to have zinc concentrations of 2,000 to 3,000 ug/l. The ground water was reported to have zinc concentrations or 5,000 to 15,000 ug/l.

Reclamation Options

There are only two options to reduce the metals loading from this site: 1) remove the mill tailings; and 2) channelize the Animas River. By removing the mill tailings, the majority of the source would be eliminated. There are several suitable disposal sites nearby in the talus west of the river. The mill tailings can be encapsulated, then covered with the fines in the talus.

The easiest way to reduce leaching of the mill tailings mixed with stream gravels is to construct a new channel for the Animas. The stream channel would require frequent maintenance since this valley is a depositional area. Once the stream channel is constructed, the barren area should be covered with soil from one of the nearby debris fans then revegetated.

Another reclamation option for the mill tailings mixed with stream gravels is to dredge the gravels and remove the fine material by screening. This would remove the soil as well as the mill tailings. The soil can be replaced with material from the nearby debris fans.

Mill Tailings Near Minnie Gulch

Location

The remnants of a small tailings pile is located immediately east of the confluence of Minnie Gulch and the Animas River (Figure 7). There is also a small pile located across the Animas from the confluence. Most of the mill tailings are at an elevation of approximately 9,805 feet. The tailings piles are believed to be on the French Placer claim. Water quality stations LA-2 and LA-3 bracketed this site. The mill tailings piles were sampled as site #9 (Figures 3 & 4). The main tailings pile is located near LAT. N37°51'45.0", LONG. W107°34'23.4".

Mine Wastes:

The two tailings piles are mostly gray in color with some yellow sulfide material. The rocks around the mill tailings are heavily stained with manganese. Water from the slopes above flows onto and through the main tailings pile. Most of the mill tailings have been washed away and/or covered with debris from Minnie Gulch. The main pile contains approximately 350 cubic yards of sandy mill tailings. The volume of tailings across the Animas is estimated to be 50 cubic yards. The mill tailings across the Animas are partially vegetated, but there is a vegetation kill zone around the main pile. Leachate analysis of the mill tailings shows the material to be mildly acid forming and high in leachable zinc and cadmium. Selected results from leachate testing are given below.

Minnie Gulch Tailings

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb ppb	Zn ppb
5.33	176	374	1104	317	52	4573	1052	77378

Water Quality Impacts

Given the close proximity of the tailings to the Animas River and Minnie Gulch, there are probably direct impacts to the Animas River during precipitation events and snowmelt. Because of the quantity of flow in the Animas River at this point, it is doubtful that there would be any measurable impact to water quality.

Reclamation Options

The main pile of mill tailings should be removed to an appropriate disposal area. The small pile of mill tailings across the Animas should be treated in-place. A road would have to be constructed across the Animas to access the small pile. Also, there would be considerable destruction of vegetation established around the mill tailings. The small amount of mill tailings can be mixed by hand with a fly-ash/ cement mixture to encapsulate the material.

Kitti Mack Mill Tailings

Location

The Kitti Mack mill tailings pile is located adjacent to the county road near the confluence of the Animas River and Maggie Gulch. The mill tailings pile is at an elevation of approximately 9,740 feet. The tailings piles are believed to be on the French Placer claim. The mill tailings piles were sampled as site #13 (Figure 7). The main tailings pile is located near LAT. N37°51'32.2", LONG. W107°34'14.1".

Mine Wastes:
The mill tailings pile covers an area of approximately 7 acres. The mill tailings cover the valley to a maximum depth of about 6 feet. Some of the tailings have been eroded toward the Animas by wind and water. Where rocks are exposed, there is considerable manganese staining. The pile contains approximately 23,000 cubic yards of sandy mill tailings. The mill tailings are high in leachable copper and lead, and moderately high in zinc. Selected results from leachate testing are given below.

Kitti Mack Tailings

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb ppb	Zn ppb
4.54	9.6	416	13	1102	559	1	3444	2370

Water Quality Impacts
Water quality impacts from this site come during the spring when this low area is saturated and from road runoff. The drainage from the road has been diverted around the main part of the pile, but still passes through the northwest corner of the pile. Based upon the leachate test result, the main metal of concern from this pile is probably copper.

Reclamation Options
This tailings pile should be reclaimed in-place or moved to an appropriate disposal area. Because the tailings are relatively shallow, the footprint of this pile can be reduced dramatically. The mill tailings can be consolidated in the southeast corner of the existing pile. This spot is higher than where water currently moves through the pile. The tailings can be either encapsulated with a liner material, or simply capped. If no liner is used, it is recommended that a coarse gravel base be constructed prior to depositing tailings to allow water to flow under the pile during the spring. The mill tailings can be capped with debris flow material from one of the nearby fan deposits.

Some of the organic soil underlying the mill tailings must be removed along with the mill tailings. The organic soil under mill tailings is probably saturated with heavy metals. The organic soil can be utilized as a sub-base for the soil cap.

Auburn Tunnel

Location
The Auburn Tunnel is located on the southeast-facing slope across the valley from Middleton at an elevation of approximately 10,045 feet (Figure 4). Access to the mine is by a 4-wheel drive road on the north side of the Animas River. This site is believed to be on an unpatented claim. This site was sampled as water quality station DM-36 and waste rock sampling site #12. The site is located at LAT. N37°51'30.5", LONG. W107°34'47.7".

Geology and Mine Workings
The Auburn Tunnel is driven northwest into the valley wall of the Animas River at an altitude of 10,040 ft. The adit is driven into colluvium and glacial drift, and has collapsed at the portal. A heavy flow of 80 to 100 gpm issues from near the back of the heading, about 15 ft. above the dump surface level. This suggests a significant impounded mine pool is backed up behind the portal blockage.

Little is known of the workings. There are no obvious veins or structures visible in the ground above the portal. The workings are extensive, judging from the size of the dump, however, no strongly mineralized material was noted in the waste. The majority of the material appeared to be altered, hematite-stained country rock of the Burns Formation. Most areas of the ring-fracture system are not economically mineralized (Varnes, 1963).

Mine Wastes:
The waste rock pile contains approximately 3,100 cubic yards yellow waste rock. Much of what appears to be a waste rock pile, from a distance, is colluvium excavated from around the adit. The top of the waste rock is covered with colluvium and is partially vegetated with pioneer species. The mine drainage flows between the waste rock and the colluvium pile. Leachate analysis shows that this waste rock would be a minor source of metals. Selected results from the leachate analysis are given below.

Auburn Tunnel

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb Ppb	Zn ppb
4.28	6.4	118	2	85	55	1	BDL	292

Historic Structures
A rock retaining wall and scattered debris are all that remain at this site.

Geologic Constraints to Reclamation
The site lies next to a huge, active avalanche track and runout zone in Otto Gulch. Trees, branches, and wooden debris on the dump indicate frequent, large avalanches impinge on the site.

A large, active debris fan lies adjacent to the dump along Otto Gulch. There is an abundant and continuously replenishing source of coarse material to use for dump capping, but it will probably require extensive amending.

Water Quality Impacts
Although the waste rock is not high in leachable metals, there is probably some leaching that occurs. The mine drainage braids over the top of the waste rock pile, then flows through the notch between the colluvium pile and the waste rock pile. It is unknown whether the waste pile removes or adds metals to the mine drainage.

The mine adit drains between 80 to 110 gpm of pH 7.6 water. The mine drainage is a minor source of iron and zinc to the Animas River. The mine drainage flows down the slope and intersects the access road to the site. Four-wheelers have caused the mine drainage to flow down the road rather than the historic channel. This causes the precipitated metals to be constantly churned up. Compared to all the measured sources of metals in the Animas River below Eureka, this site produces less than 1% of the dissolved metals during low-flow and high-flow. The measured metal loadings from this mine are given below.

Sampling Station DM-36

Flow Regime	Diss. Al g/day	Diss. Cd g/day	Diss. Cu g/day	Diss. Fe g/day	Diss. Pb g/day	Diss. Mn g/day	Diss. Zn g/day
Low -Flow	BDL	BDL	BDL	98.07	1.19	162.85	88.56
High-Flow	BDL	BDL	2.85	113.53	BDL	142.42	86.34

Reclamation Options
The mine drainage should be channeled across the colluvium into the historic flow channel. Also, where the drainage crosses the access road, the drainage should be diverted into the historic channel. A series of small settling ponds can be constructed along this channel to precipitate most of the iron and zinc. This site is a minor source of metals to the Animas and should be considered a low priority for reclamation.

Unknown Mine DM-37

Location
This Mine is located in an aspen grove on the southeast-facing slope across the Animas River from Middleton at an elevation of approximately 10,000 feet. Access to the mine is by foot only. This site is believed to be on an unpatented claim. This site was sampled as water quality station DM-37 and waste rock sampling site #14 (Figure 4). The site is located at LAT. N37°51'18.0", LONG. W107°34'53.0".

Geology and Mine Workings
The prospect adit is totally collapsed, and overrun by talus. The dump is fairly small, suggesting this prospect intersected a discrete water-bearing inflow zone. A heavy sludge of iron hydroxides coats the drainage channels and top of the dump at the spring. The total flow disappears into loose, gravelly alluvial fan materials before reaching the Animas River.

Little is known of the workings. There are no obvious veins or structures visible in the ground above the portal. The adit may have prospected structures running parallel to the caldera margin in the cliff walls. Workings are not extensive, judging from the size of the dump. No strongly mineralized material was noted in the waste, the majority of which appeared to be altered, hematite- stained country rock of the Burns Formation. Most areas of the ring-fracture system are not economically mineralized (Varnes, 1963).

Mine Wastes:
The waste rock pile contains approximately 1,700 cubic yards yellow waste rock containing galena, pyrite and sphalerite. The top of the waste pile is vegetated with willows. There is a small vegetation kill zone below this dump and along the mine drainage flow path. Leachate testing shows this waste rock is a minor source of metals. Selected results from the leachate analysis are given below.

Site #14

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb Ppb	Zn ppb
4.66	3.4	46	BDL	6	68	489	BDL	29

Historic Structures
No historic artifacts were found at this site.

Water Quality Impacts
The mine drains between 34 to 43 gpm of pH 7.3-7.5 water. The mine drainage is principally a source of iron. The mine drainage infiltrates into the soil before reaching the Animas River. Virtually all the iron and most of the zinc are probably precipitated before the water reaches the Animas River. The measured metal loadings from this mine are given below.

Sampling Station DM-37

Flow Regime	Diss. Al g/day	Diss. Cd g/day	Diss. Cu g/day	Diss. Fe g/day	Diss. Pb g/day	Diss. Mn g/day	Diss. Zn g/day
Low -Flow	BDL	BDL	BDL	1091.87	BDL	133.84	12.55
High-Flow	BDL	BDL	BDL	1022.70	0.15	121.46	11.70

Reclamation Options

The mine drainage from this site is a minor source of metals to the Animas River. A settling pond could be constructed near the mine to aid in precipitation of the iron and zinc from this mine. However, because natural processes are probably already treating the mine drainage, no reclamation is recommended for this site.

Unknown Mine DM-38

Location

This Mine is located on the southeast-facing slope across the Animas River from Middleton at an elevation of approximately 9,900 feet (Figure 4). There is an old overgrown access road to the site off the 4-wheel dive road on the north side of the Animas River. This site is believed to be on an unpatented claim. This site was sampled as water quality station DM-38. The waste rock pile was not sampled. The site is located at LAT. N37°51'05.8", LONG. W107°34'54.1".

Mine Wastes:

The waste rock pile at this site appears to be principally country rock. Most of the waste rock was covered with talus from excavation of the adit face. The waste rock pile is partially vegetated.

Historic Structures

No historic artifacts were found at this site.

Water Quality Impacts

The mine drains between 15 to 35 gpm of pH 7.3-7.5 water. The mine drainage flows into coarse talus below the mine adit. The talus may create a direct channel into the Animas River. The mine drainage is a minor source of iron and zinc. The measured metal loading from this mine are given below.

Sampling Station DM-38

Flow Regime	Diss. Al g/day	Diss. Cd g/day	Diss. Cu g/day	Diss. Fe g/day	Diss. Pb g/day	Diss. Mn g/day	Diss. Zn g/day
Low -Flow	BDL	BDL	BDL	36.51	BDL	24.62	11.23
High-Flow	BDL	BDL	BDL	71.89	0.07	37.97	26.72

Reclamation Options

The mine drainage from this site is a minor source of metals to the Animas River. A settling pond could be constructed near the mine to aid in precipitation of the iron and zinc from this mine.

Hamlet Mine

Location

The Hamlet Mine is located south of the county road immediately east of Maggie Gulch at an elevation of approximately 9,880 feet. Access to the mine is via a short 4-wheel drive spur road off the county road. This site is believed to be on the Hamlet or Hamlet Extension claim. This site was sampled as water quality station DM-39 and waste rock sampling site #15 (Figure 4). The site is located at LAT. N37°51'07.7", LONG. W107°34'25.4".

Geology and Mine Workings

The Hamlet workings developed a northwest-striking fault vein radiating from a strand of the caldera ring-fault structure beneath the Animas River Valley at Middleton. The radial fault strikes N.40°W., and dips steeply northeast, to nearly vertical. The fault is cut by a large late intrusive dike-like granite porphyry body which was intruded parallel to the adjacent and underlying caldera ring-fault structure cutting through the steep west flank of Galena Mountain. Southeast of the porphyry body, the fault can again be followed up the northwest shoulder of Galena Mountain in Burns Formation dacite, nearly to the ridge crest.

Workings on at least 6 adit levels developed the vein, though it is unclear if all the levels were interconnected. It is known that workings were extensive on several levels. The lowest adit level has a large mine dump, and continues to drain the structure.

The porphyry body was intersected in all but the uppermost adit levels. Inspection of the dumps showed an abundance of altered and weakly to strongly pyritized porphyry rock, mixed with vein waste and minor amounts of country rock. Material examined on the dump suggests that pyritized and silicified stockwork ores may have formed within the shattered, altered margins of the intrusive porphyry.

Mine Wastes:

The waste rock pile contains approximately 10,700 cubic yards of yellow waste rock containing some pyrite and sphalerite. Leachate results show this waste to be moderately high in copper and high in zinc. There is some flow from the slopes above that enters this pile, but most of the runoff is directed down the access road. Selected results from the leachate analysis are given below.

Hamlet Mine

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb Ppb	Zn ppb
5.22	15.8	75	29	396	26	2	70	7409

Historic Structures

This site has a standing loadout structure and shed, and portions of the tram from the upper levels of the mine are still standing.

Geologic Constraints to Reclamation

The lower draining adit site is on heavily timbered slopes, and is generally safe from avalanche and geologic hazards, except for some areas of steep slopes on the access trail. Colluvial soils and glacial debris several to tens-of-feet thick mantle the site.

Water Quality Impacts

Water quality impacts from this site come from the mine drainage and the waste rock. The waste rock contributes metal during snowmelt and thunderstorm events.

The drainage is ditched around most of the waste rock. A portion of the mine drainage does infiltrate into the waste rock pile. Most, if not all, of the drainage that infiltrates re-emerges into the drainage channel near the bottom of the pile. The mine drains between 150 to 190 gpm of pH 7.6 water. During high-flow, the measured dissolved zinc concentration increase by a factor of 4 compared to low-flow with a five-fold increase in zinc load. Dissolved iron followed the opposite trend, with the dissolved iron concentration and load higher during low-flow. This indicates that the added flow during high-flow comes into a different portion of the mine workings. Compared to all the other identified mining related sources of metals in the Animas River below Eureka, this site produces about 2% of the dissolved metals. During high-flow, this mine drainage produces about 2.5% of the zinc from mining related sources. The measured metal loadings from this mine are given below.

Sampling Station DM-33

Flow Regime	Diss. Al g/day	Diss. Cd g/day	Diss. Cu g/day	Diss. Fe g/day	Diss. Pb g/day	Diss. Mn g/day	Diss. Zn g/day
Low -Flow	BDL	BDL	BDL	170.83	BDL	444.47	81.77
High-Flow	BDL	1.03	16.27	6.90	BDL	698.16	444.64

Reclamation Options

During most times of the year, the mine drainage can be effectively treated with a settling pond. The settling pond can be located below the mine near the county road. The high iron to zinc ratio and relatively high pH should result in precipitation of the iron and co-precipitation of the zinc. However, during high-flow, the amount of iron in the drainage would be insufficient for zinc co-precipitation. For this period, a portion of the zinc can be removed by constructing a limestone adsorption bed below the settling pond.

The mine workings should be investigated to determine whether all or a portion of the mine drainage can be eliminated or intercepted before it becomes contaminated. In particular the changes that occur between low-flow and high-flow should be documented.

A diversion ditch should be constructed to direct all the upland water onto the access road. The drainage channel leading from the mine adit should be improved to prevent leaching of any metals from the waste rock pile.

Howardsville Mill Tailings

Location

The Howardsville mill tailings piles are located immediately north and east of the town of Howardsville at an elevation of approximately 9,680 feet. A portion of the tailings pile are currently part of a permitted milling operation. The tailings piles are believed to be on the Howardsville Placer claim. The mill tailings piles were not sampled. The leachate from a portion of the mill tailings was sampled as water quality site ARD-2 (Figure 28). The tailings piles are bracketed by water quality stations LA-4 and LA-5 (Figure 4). Sampling site ARD-2 is located at LAT. N37°50'17.0", LONG. W107°35'48.1".

Mine Wastes:
The mill tailings pile covers an area of approximately 15-20 acres. The mill tailings were not sampled. The majority of the mill tailings is currently under permit.

Water Quality Impacts
Iron entering the Animas River at station ARD-2 has stained the banks with red-orange precipitate for about ¼ mile. The iron is the most visible sign of heavy metals from this site, but the copper and zinc loading is a greater problem, overall.

Between sampling stations LA-4 and LA-5, there was a measured increase in dissolved zinc loading of almost 30 pounds per day during low-flow. The inputs from Cunningham Gulch, Hematite Gulch and DM-43 accounts for slightly over 2 pounds of this amount. The measured loading at ARD-2 was 12.2 pounds per day, leaving approximately 16 pound of dissolved zinc per day unaccounted for. Most of this increase in loading is probably from the Howardsville mill tailings. A portion of the water entering the Animas River at station ARD-2 was not measured. Some of the water infiltrates into the alluvium. It is also likely that there is some groundwater from the mill tailings that flows to the Animas River. Compared to all the other identified mining related sources of metals in the Animas River below Eureka, this site produces almost 75% of the dissolved metals and almost 69% of the dissolved zinc at low-flow.

The loading from this site could not be directly measured in the high-flow sampling because the flow in the Animas River was too high to safely gauge. The dissolved zinc and iron loads were lower during the high-flow sampling than during low-flow. However, the CDPH&E measured a load of almost 18 pounds of zinc per day during June of 1992.

Reclamation Options
The drainage from this site is probably the largest single source of metals in the Animas River. Additional investigations should be conducted before reclamation is undertaken. The investigations should focus on the where the heavy metals originate. There may be a specific portion of the tailings piles that is the main source of the metals. Groundwater monitoring wells will have to be installed to determine the magnitude of the groundwater component.

As a temporary measure, a settling pond can be constructed to reduce the impacts from this site. The pH is high enough and there is a high enough iron concentration in the leachate to allow for co-precipitation of some of the zinc.

Little Nation Mine

Location
The Transformer Level of the Little Nation Mine is located south of the Animas River approximately 200 yards south of the Cunningham Gulch/ Animas River confluence (Figures 4 and 28). The portal of the mine is at an elevation of approximately 10,091 feet. Presently, there is only foot access to the mine, although it is a short distance from an existing road. This site is believed to be on the Royal Charter claim. This site was sampled as water quality station DM-56. The waste rock was not sampled. The site is located at LAT. N37°49'53.4", LONG. W107°35'59.0".

Geology and Mine Workings
The Little Nation Mine (also known as the Royal Charter), is one of the few that worked structures within the ring faults zone (Varnes, 1963). Three adit levels drifted on several

discontinuous overlapping veins that trend S50°W, dipping 60° to 75° northeast (Figure 48). The mine produced about 12,300 tons of silver-lead ore.

The lower "Transformer Level" adit (DM-56) is at 10,091 ft. elevation. It drifts on a mostly barren fault structure for over 650 feet, and does not encounter any good ore. The face ends in a 40 ft. section of highly fractured, iron-stained rock, with a large diffuse water inflow, 660 feet from the portal. This level was not connected to the next higher adit 194 feet above.

The middle or "Charter Level" adit has the most extensive workings, and is still connected to the mill at Howardsville by an aerial tram cable. It drifts over 1,150 feet, stepping eastward twice through short crosscuts to follow the overlapping veins. Good sulfides were stoped from several areas of the vein on this level. About 800 feet from the portal, a 232 ft. raise connects to the upper level. Ore was passed down this raise for transport on the aerial tram to the mill.

The upper most "Nation Level", at 10,517 ft. elevation, encountered the best ore shoot. At 250 feet from the portal, a 3 ft. wide zone of sulfide ore was followed for over 400 feet on strike, and stoped in several locations. There are over 1000 feet of workings on this level.

Historic Structures

There are no historic structures at this site other than scattered debris.

Geologic Constraints to Reclamation

The lower draining adit site is on heavily timbered slopes, and is generally safe from avalanche and geologic hazards, except for some areas of steep slopes on the access trail. Colluvial soils and thick glacial debris several to tens-of-feet thick mantle the site.

Water Quality Impacts

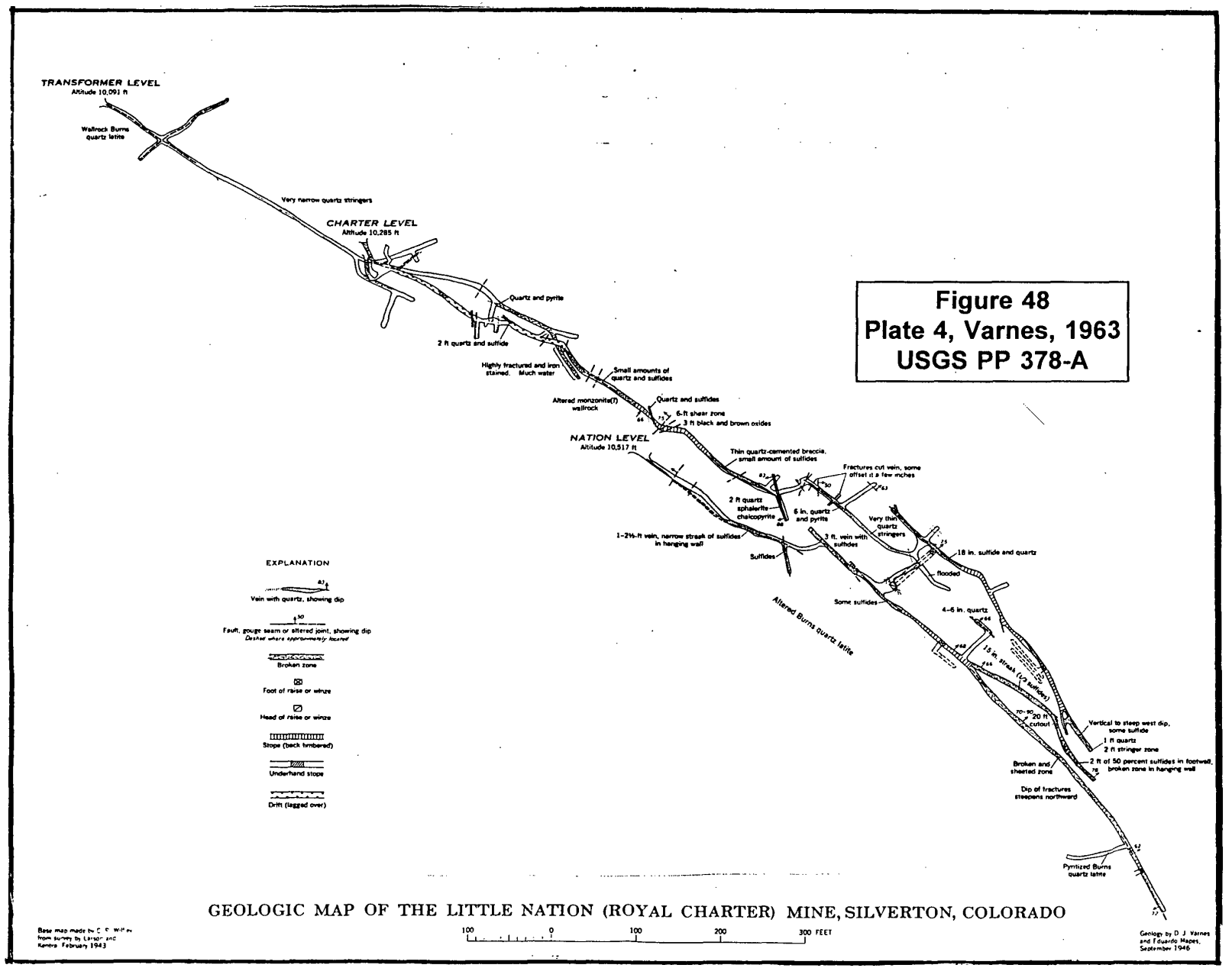
The mine drainage from this site is principally a source of dissolved iron, although the zinc load from this site is one of the largest found in the Animas River below Eureka. The mine drainage flows over the waste rock pile into a small wetland area. The wetland contains several inches of accumulated iron precipitate. The mine drains between 60 to 105 gpm of pH 6.6 to 7.0 water. During high-flow, the measured dissolved zinc and iron loading from this mine is about twice that found during low-flow. Compared to all the other identified mining related sources of metals in the Animas River below Eureka, this site produces about 7-8% of the dissolved metals. During high-flow and low-flow, this mine drainage produces about 2% of the dissolved zinc from mining related sources. The measured metals loading from this mine are given below.

Sampling Station DM-33

Flow Regime	Diss. Al g/day	Diss. Cd g/day	Diss. Cu g/day	Diss. Fe g/day	Diss. Pb g/day	Diss. Mn g/day	Diss. Zn g/day
Low -Flow	24.13	0.30	BDL	1841.66	0.47	426.91	171.90
High-Flow	101.61	0.89	7.83	4082.01	1.55	696.81	354.34

Reclamation Options

According to mining records, the mine drainage originates at a fault near the face of this drift. The fault is approximately 600 feet beyond the portal. These mine workings should be investigated to determine whether grouting can seal the water-bearing fractures, or a bulkhead seal can be constructed.


TRANSFORMER LEVEL
Altitude 10,091 ft
Wallrock Burns quartz latite
Very narrow quartz stringers
CHARTER LEVEL
Altitude 10,285 ft
Quartz and pyrite
2 ft quartz and sulfide
Highly fractured and iron stained. Much water
Small amounts of quartz and sulfides
Altered monzonite(?) wallrock
Quartz and sulfides
6-ft shear zone
3 ft black and brown oxides
NATION LEVEL
Altitude 10,517 ft
Thin quartz-cemented breccia, small amount of sulfides
Fractures cut vein, some offset it a few inches
2 ft quartz sphalerite chalcopyrite
6 in. quartz and pyrite
Very thin quartz stringers
1-2½-ft vein, narrow streak of sulfides in hanging wall
3 ft. vein with sulfides
Sulfides
18 in. sulfide and quartz
flooded
Some sulfides
Altered Burns quartz latite
4-6 in. quartz
15 in. streak (1/2 sulfides)
20 ft cutout
Vertical to steep west dip, some sulfide
1 ft quartz
2 ft stringer zone
2 ft of 50 percent sulfides in footwall, broken zone in hanging wall
Broken and sheeted zone
Dip of fractures steepens northward
Pyritized Burns quartz latite
EXPLANATION
Vein with quartz, showing dip
Fault, gouge seam or altered joint, showing dip
Dashed where approximately located
Broken zone
Foot of raise or winze
Head of raise or winze
Stope (back timbered)
Underhand stope
Drift (lagged over)
Figure 48
Plate 4, Varnes, 1963
USGS PP 378-A
GEOLOGIC MAP OF THE LITTLE NATION (ROYAL CHARTER) MINE, SILVERTON, COLORADO
100 0 100 200 300 FEET
Base map made by C. C. Wilson from survey by Larson and Kentro February 1943
Geology by D. J. Varnes and Eduardo Mapes, September 1946

The most cost-effective method to treat this mine drainage is to construct a settling pond or a series of settling ponds below the mine site. The relatively high pH and high iron/zinc ratio along with the aeration that occurs below the mine will significantly reduce the zinc loading from this site and virtually eliminate the iron and copper loading. The settling pond should be designed for a minimum residence time of 24 hours.

Additional zinc removal could be done in a sulfate reducing wetland or limestone adsorption bed constructed below the settling pond.

The waste rock pile is partially vegetated. No reclamation is currently recommended for the waste pile.

Mill Tailings Site #20

Location

A small mill tailings pile is located on the north side of the Animas River approximately 150 yards below the Howardsville Bridge at an elevation of approximately 9,600 feet (Figures 7 and 28). The tailings pile is believed to be on the Royal Charter claim. The mill tailings pile was sampled as site #20. Water quality stations LA-5 and LA-6 bracket the tailings piles. The tailings pile is located at LAT. N37°49'54.3", LONG. W107°36'12.7").

Mine Wastes:

The tailings pile contains approximately 1,200 cubic yards of yellow to gray, sandy and silty material. Leachate results show this waste to be moderately high in copper and zinc. There is some flow from the slopes above that enters this pile. Selected results from the leachate analysis are given below.

Site #20

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb Ppb	Zn ppb
5.45	13.6	264	38	169	272	1	222	7702

Water Quality Impacts

Water quality impacts from this site principally occur during snowmelt and precipitation events. The mill tailings are not in direct contact with the Animas River, but are immediately adjacent to the stream channel. There may be some ground water during wetter periods of the year when there is also some leaching. The mill tailings are probably partially responsible for the increase in zinc and iron loading between sampling stations LA-5 and LA-6.

Reclamation Options

The mill tailings should be moved to an appropriate disposal site. Alternatively, the small amount of tailings could be mixed with fly ash and cement to encapsulate the tailings. The cemented tailings then could be capped with soil from the nearby alluvial terrace deposit.

Mill Tailings Site #39

Location
A small mill tailings pile is located on the south side of the Animas River near the beginning of the narrow portion of the Animas River between Howardsville and Arrastra Gulch. The mill tailings are believed to be derived from the Contention Tram from Little Giant Basin. The mill tailings are at an elevation of approximately 9,560 feet. Access to the site is by foot only. The only access to the site is by wading the Animas River. The tailings pile is believed to be on an unpatented claim. The mill tailings pile was sampled as site #39 (Figure 8). Water quality stations LA-5 and LA-6 bracket the tailings piles. The tailings pile is located at LAT. N37°49'56.5", LONG. W107°36'38.8".

Mine Wastes:
The tailings pile contains approximately 350 cubic yards of sandy, gray material. The mill tailings average about one foot in depth. Willows have grown through the tailings in many places. Leachate results show this waste to be high in copper and zinc. The mill tailings are wet most of the year from a series of springs emitting from the slope above this site. The rocks along the bank of the Animas are heavily stained with iron and manganese at this site. Selected results from the leachate analysis are given below.

Site #39

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb Ppb	Zn ppb
4.77	72	1217	152	2184	41	1728	950	22153

Water Quality Impacts
This small tailings pile is leached during most of the year by groundwater and flow from nearby springs. The mill tailings are probably partially responsible for the increase in copper, iron and zinc loading that occurs between sampling sites LA-5 and LA-6.

Reclamation Options
Because of access problems, the mill tailings must be reclaimed in-place. Constructing a diversion ditch to intercept groundwater and runoff can divert most of the water passing through the tailings. A small excavator can be lifted into the site by a helicopter, or the ditch can be dug by hand. The mill tailings should be amended by adding fly ash and cement to reduce leaching from precipitation and snowmelt.

Mill Tailings Across from Mayflower Mill

Location
A small mill tailings pile is located across the road from the entrance to the Mayflower Mill, near the junction of County Road 110 and Arrastra Gulch. The mill tailings are at an elevation of approximately 9,570 feet. The mill tailings extend from the road to about 100 feet downslope. The mill tailings appear to be spillage from the Mayflower Mill. The tailings pile is believed to be on the Genoa claim. The mill tailings pile was sampled as site #53 (Figure 8). The tailings pile is located at LAT. N37°49'36.2", LONG. W107°37'45.3".

Mine Wastes:
The tailings pile contains approximately 750 cubic yards of sandy, yellow material. The mill tailings vary in depth from about one inch to two feet. A portion of the mill tailings have flowed

into an aspen grove. Many of the aspens have been killed by the mill tailings. Leachate tests show this waste to be high in manganese and zinc. The mill tailings are in a relatively dry area, but are subject to erosion from water running off the adjacent road. There are a series of gullies and rills throughout the tailings pile. Selected results from the leachate analysis are given below.

Site #53

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb Ppb	Zn ppb
6.06	40	59	83	47	18	15345	BDL	15814

Water Quality Impacts

Water quality impacts from this site are probably minimal. However, some of the mill tailings have eroded onto the banks of the Animas River below. The mill tailings near the bank are subject to much more leaching.

Reclamation Options

Because of the small amount of tailings at this site, the best solution is to removal. The soils under the mill tailings can be amended and revegetated. Alternatively, the mill tailings can be capped in-place. If capped in-place, a diversion ditch should be constructed adjacent to the road to intercept any run-on water.

Mill Tailings Near Mouth of Blair Gulch

Location

A small mill tailings pile is located across the Animas River from the old powerhouse at the mouth of Blair Gulch. Access to this site is by foot only. The mill tailings are at an elevation of approximately 9,400 feet. A portion of the mill tailings are under water all year. An old, inactive beaver pond has been built on the mill tailings at the mouth of Blair Gulch. The tailings pile is believed to be on the Riverside claim. The mill tailings pile was sampled as site #66 (Figure 8). The tailings pile is located at LAT. N37°49'16.6", LONG. W107°38'22.0".

Mine Wastes:

The tailings pile contains approximately 3,750 cubic yards of fine to sandy, gray material. The rocks on the edge of the Animas River are heavily stained with manganese along the boundaries of the tailings pile. A series of seeps was observed along the contact of the mill tailings and the river gravels. The beaver dam floods approximately 25% of the mill tailings. Leachate tests show this waste to be high in cadmium, copper, manganese and zinc. Selected results from the leachate analysis are given below.

Site #66

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb Ppb	Zn ppb
4.04	117	4556	232	1934	BDL	13599	843	38681

Water Quality Impacts

Water quality impacts from this site occur year-round. The mill tailings are continually leached by water flowing from Blair Gulch. This site is probably partially responsible for the increase in copper and zinc loading between sampling stations LA-8 and LA-9.

Reclamation Options
Removal is the only reclamation option for this site. The drainage from Blair Gulch should be diverted away from the site prior to removal. A road crossing of the Animas River will have to be constructed, or a road will have to be constructed to the site from near the Lackawanna Bridge. Following removal, a pond should be constructed to support the surrounding wetland vegetation.

Aspen Mine

Location
The Amy Tunnel of the Aspen Mine is located south of the Animas River on the slopes of Kendall Mountain at an elevation of approximately 9,760 feet (Figures 5 and 8). The mine can be accessed by a 4-wheel drive road off the Swansea Gulch road or by a spur road from Arrastra Gulch. This site is believed to be on the Aspen Group claims. This site was sampled as water quality station DM-64. The waste rock was sampled as site #52. The site is located at LAT. N37°49'16.2", LONG. W107°37'49.8".

Geology and Mine Workings
The Aspen Mine developed what may be the northwest extension of the Shenandoah-Dives vein system (Varnes, 1963). The workings drifted on a N25°W trending structure, on at least 5 adit levels. The lowest level, known as the Amy Tunnel, is driven southeast from the Animas river valley at an elevation of 9,760 feet. It is caved at the portal, but still drains a large flow of water. It crosscuts 1,300 feet to intersect the vein beneath the Legal Tender Tunnel. The Legal Tender Tunnel and 4 other adits accessed the Aspen vein structure higher up on the southwest wall of lower Arrastra Gulch.

The Aspen Vein was mined across a zone of concentric ring-faults parallel to the caldera margin, which runs across the mouth of Arrastra gulch (Figure 49). These faults strike N68°E, and may have been the sites for large water inflows from the deep subsurface.

The ores of the Aspen Mine consisted of galena, sphalerite, chalcopyrite, and tetrahedrite in pockets and bunches, and even a little native silver in the upper mine levels. The gangue is quartz, with considerable amounts of green fluorite (Ransome,1901).

Historic Structures
There are no historic structures at this site other than scattered debris.

Mine Wastes:
The waste rock pile contains approximately 20,000 cubic yards of yellow waste rock containing chalcopyrite, pyrite, galena and sphalerite. Leachate results show this waste to be high in cadmium, copper and zinc. There is some flow from the slopes above that runs onto this pile. Selected results from the leachate analysis are given below.

Aspen Mine

pH s.u.	Total Acidity mg/l	Al ppb	Cd ppb	Cu ppb	Fe ppb	Mn ppb	Pb Ppb	Zn ppb
4.84	33	456	103	1290	111	1056	3001	16290

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Page 141 of 237

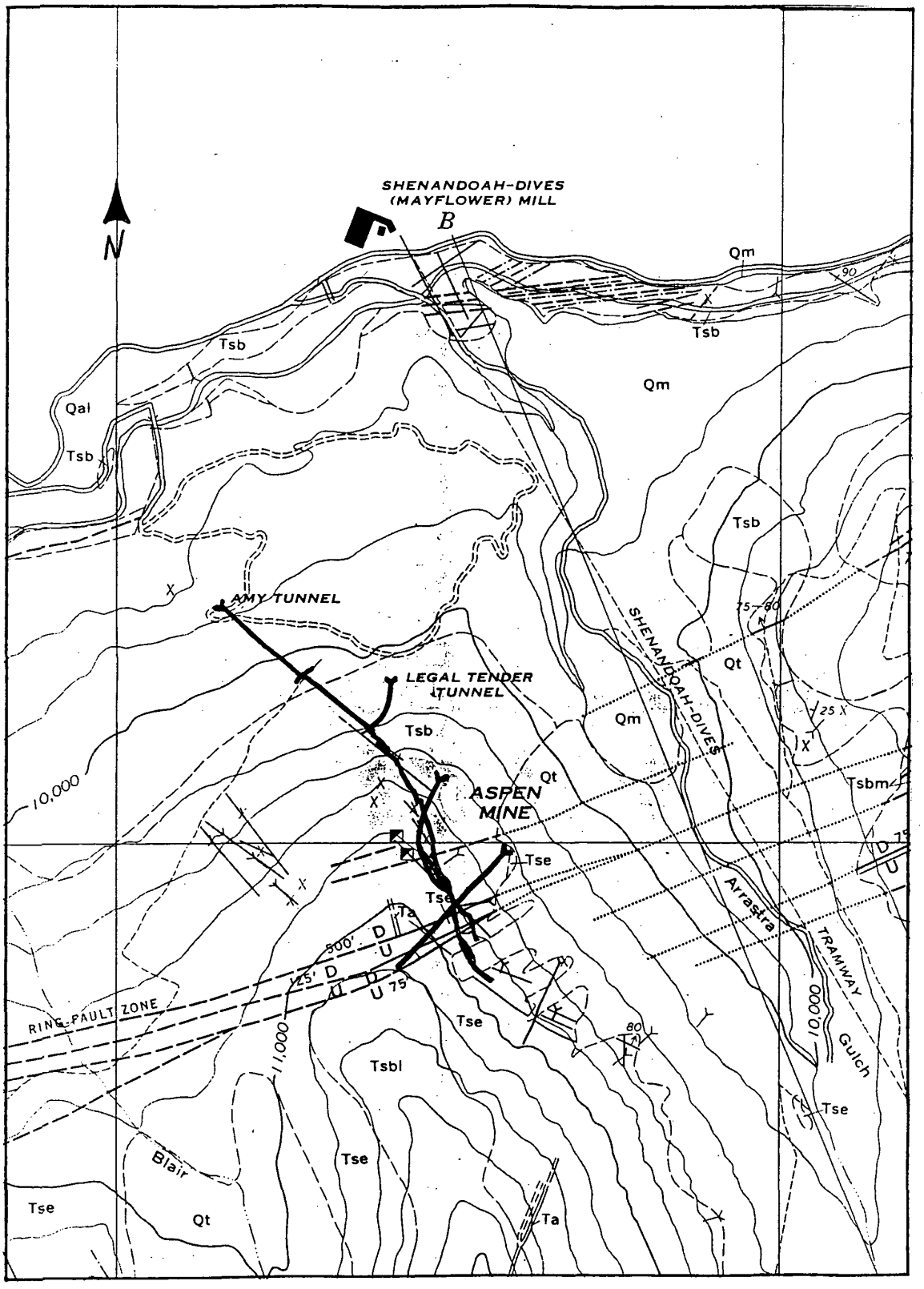

Figure 49. Map of Aspen Mine workings

From Plate 2, Varnes, 1963
USGS PP 378-A. Scale 1"=1,000 ft.

Geologic Constraints to Reclamation

The lower draining adit site is on heavily timbered slopes, and is generally safe from avalanche and geologic hazards, except for some areas of steep slopes on the access trail. Potentially unstable colluvial soils and thick glacial debris several to tens-of-feet thick mantle the site.

Water Quality Impacts

This mine site presents a real quandary. The mine drainage flows over the waste rock pile into a series of beaver ponds. Brook trout have been observed to live in the beaver ponds. The mine drainage was sampled at the mouth of the adit in this investigation. Previously, CDPH&E sampled the effluent from the beaver ponds immediately above the Animas River. The lowest dissolved zinc concentration that CDPH&E measured was 500 ug/l. Dissolved zinc concentrations measured at the adit in this investigation were 593 ug/l and 1,574 ug/l during low-flow and high-flow, respectively. These zinc concentrations should be lethal to the brook trout in the beaver ponds.

CDPH&E measured the dissolved cadmium concentration in the effluent from the beaver ponds at 2.8 to 3.2 ug/l. The cadmium concentrations measured in this study, at the mine adit, were 3.7 and 5.5 ug/l during low-flow and high-flow, respectively. These cadmium concentrations are above the chronic toxicity level. In addition, the copper concentrations measured in this investigation and measured by CDPH&E are marginal.

The mine drains between 190 to 325 gpm of pH 7.0+ water. During high-flow, the measured dissolved zinc and iron loading from this mine is about four times that found during low-flow. Compared to all the other identified mining related sources of metals in the Animas River below Eureka, this site produces about 8-15% of the dissolved zinc. The measured metal loadings from this mine are given below.

Sampling Station DM-64

Flow Regime	Diss. Al g/day	Diss. Cd g/day	Diss. Cu g/day	Diss. Fe g/day	Diss. Pb g/day	Diss. Mn g/day	Diss. Zn g/day
Low -Flow	BDL	2.68	5.15	BDL	BDL	2.06	610.63
High-Flow	BDL	9.74	33.29	BDL	BDL	25.68	2787.31

Reclamation Options

Access to this site for construction is poor. Presently, the best access is from Arrastra Gulch across a low water crossing. The roads to this site would have to be significantly improved for construction of any treatment system.

During construction, reclamation at this site may have adverse effects on the existing fishery in the beaver ponds below the mine. At a minimum, the mine drainage should be conveyed around the waste rock pile. The mine drainage can be ditched around the waste pile on the east side. The ditch should be lined because of the coarse textured soils in the area. Channeling the mine drainage should have minimal impacts on the beaver ponds below. A diversion ditch should also be constructed to collect run-on water from above. This ditch can be constructed to flow into the mine drainage channel.

Treatment of the mine drainage will be difficult and costly. Because of the close proximity of this site to Silverton, a sulfate reducing wetland would not be a viable option. Excess hydrogen sulfide generated by the sulfate reducing system could be smelled in Silverton.

The most reliable method of treatment will be a neutralization plant. The only practical way to power a neutralization plant at this site is by electric power. Electric service would have to be brought in from across the Animas River. There is probably insufficient drop between the mine adit and the beaver ponds to provide enough electricity from a hydroelectric plant. Also, solar power would probably not work because of the north facing aspect of the site.

One possible "passive" option is aqueous lime injection. A portion of the mine drainage can be passed through a pond containing an alkaline agent, such as lime or kiln dust. The highly alkaline effluent can then be added to the remainder of the mine drainage. A series of small settling ponds can be constructed down the slope to the beaver ponds, or the beaver ponds can be used as settling ponds. This should be effective in removing most of the copper and cadmium, and a portion of the zinc. This type of system requires frequent maintenance to change the amount of flow into the lime pond. Also, additional alkaline agent will have to be added at least two times each year.

Another treatment option is a large limestone bed. The mine drainage is very low in iron and aluminum, which should prevent armoring. The mine drainage can be passed through a series of lined trenches or ponds with turbulent drops between the ponds. The trenches should be constructed with a minimum of 400 cubic yards of limestone. This will allow for a residence time of 2 hours during high-flow and about 4 hours during low-flow. The limestone should be placed as a graded fill, with larger limestone (4-6") on the bottom grading to 1" limestone at the top. Each pond or trench in series should have a primary spillway constructed of perforated pipe at the bottom leading to a riser pipe, which will control the height of the water in each cell. This will prevent channeling of the water across the top of the limestone. Each pond or trench should also have an emergency spillway in the event that a pipe plugs or freezes. This should increase the pH of the drainage enough to precipitate some of the cadmium, copper and zinc.

Mighty Monarch Mine

Location

The Mighty Monarch Mine is located on the south side of the Animas River across from Silverton (Figure 5). The mine site is at an elevation of approximately 9,477 feet. A spur road off the Kendall Mountain road accesses the mine. This site is believed to be on an unpatented claim. This site was sampled as water quality station DM-67. The waste rock was not sampled. The site is located at LAT. N37°48'21.5", LONG. W107°40'10.1".

Geology and Mine Workings

The Mighty Monarch is driven on a short vein near the contact of the Burns Formation with the large, late intrusive porphyry stock along the margin of the caldera at Silverton. The vein strikes N14°W, and is vertical. Rock exposed along the contacts of the nearby stock are finely veined and shattered, resulting in a higher degree of weathering and an almost continuous mesh-like pattern of macro-fractures. The brecciated, shattered nature of the intrusive contact in some areas may have resulted in stockwork ore bodies associated with the contact margins.

Little else is known of the workings in this mine. It appears to have been little more than a prospect.

Historic Structures

There are no historic structures at this site other than scattered debris.

Geologic Constraints to Reclamation
The site lies directly in a major avalanche chute on the northwest slopes of Kendall Mountain. Avalanche hazard is severe. Bedrock is near surface, at the portal, but glacial debris and colluvium mantle slopes just north of and adjacent to the site.

Water Quality Impacts
The mine drainage from this site is principally a source of dissolved zinc. The mine drainage flows over the waste rock pile and infiltrates into the colluvium. The mine drainage surfaces near the Kendall Mountain road below, enters a small wetland, then flows into the Animas River. The mine drains between 10 to 30 gpm of pH 7 to 7.4 water. During high-flow, the flow measured at the adit was actually less than during the low-flow sampling. This indicates that there is a large lag time before snowmelt water enters the mine workings. Compared to all the other mining sources measured in the Animas River below Eureka, this site produces less than 1% of the dissolved metals. The measured metal loadings from this mine are given below.

Sampling Station DM-67

Flow Regime	Diss. Al g/day	Diss. Cd g/day	Diss. Cu g/day	Diss. Fe g/day	Diss. Pb g/day	Diss. Mn g/day	Diss. Zn g/day
Low -Flow	BDL	0.30	BDL	7.36	BDL	132.59	78.27
High-Flow	BDL	0.08	BDL	2.30	BDL	66.72	50.52

Reclamation Options
The most cost-effective method to treat this mine drainage is to construct an anoxic limestone drain in the mine adit, followed by a settling pond. The mine drainage should be conveyed across the waste rock pile into a settling pond constructed near the Kendall Mountain road. The increased pH and alkalinity of the water should significantly lower the zinc concentration. The settling pond should be designed for a minimum residence time of 24 hours.

The waste rock pile is partially vegetated. No reclamation is currently recommended for the waste pile.

Springs Near Lackawanna Bridge

Location
There are three springs located below the county road between the area just east of the road to the Lackawanna Bridge and the Silverton Lakes Campground. Two of the springs were sampled as sites ARD-3 and ARD-4 during the high-flow sampling event (Figure 5). Sampling site ARD-3 originates east of the road to the Lackawanna Bridge, on the north side of the Animas River. Site ARD-3 was sampled at the culvert under the road to the Lackawanna Bridge. Sampling Site ARD-4 is located on the south side of the Silverton Lakes Campground. A third spring is located on the west side of the Silverton Lakes Campground. This spring is the largest of the three. This site was not sampled.

Water Quality Impacts
The source of these springs is unknown. There is no surficial evidence of mining impacts in the area except near the western spring, which was not sampled. At the western spring, there are piles of material that may be smelter waste or mill tailings.

The springs at ARD-2 and ARD-3 are high in dissolved zinc and manganese. Also, the spring at ARD-3 is high in dissolved cadmium. The dissolved metals loading from these two sites is virtually equal to that measured at Howardsville tailings site ARD-2. The measured metal loadings from this site are given below.

Sampling Station ARD-3

Flow Regime	Diss. Al g/day	Diss. Cd g/day	Diss. Cu g/day	Diss. Fe g/day	Diss. Pb g/day	Diss. Mn g/day	Diss. Zn g/day
High-Flow	143.56	1.60	1.40	6.52	0.44	7924.12	793.08

Sampling Station ARD-4

Flow Regime	Diss. Al g/day	Diss. Cd g/day	Diss. Cu g/day	Diss. Fe g/day	Diss. Pb g/day	Diss. Mn g/day	Diss. Zn g/day
High-Flow	378.22	0.13	2.95	409.86	1.81	7073.63	363.16

Reclamation Options

Additional investigations should be conducted in this area to determine the source of the metals in the three springs. Investigations may have to include some groundwater wells. Surface observations indicate that the western spring may be a larger source of heavy metals than the springs sampled as sites ARD-3 and ARD-4. No reclamation can currently be recommended for this site.

RECOMMENDATIONS FOR FURTHER INVESTIGATION

This investigation focused only on the metals contributions of surface mine waste and surface mine portal discharge sources in the Animas River below Eureka. The mining-related groundwater sources were not considered here and have not, as yet, been investigated. Groundwater flow from the mines currently provides an unquantified pathway for contamination to enter the streams. Data on groundwater qualities and quantities are essential to understand the hydrologic system and metals migration in the Animas River. It is therefore recommended that drill holes and wells be placed near some of the mines exhibiting likely interactions with the groundwater system to collect additional data. Some of the mines in this category include the Hamlet Mine, Ben Franklin, Bavarian, and Little Casino Mine.

Unexplained metals loading in certain stream segments should be investigated further. There is a large increase in zinc loading in the stream segment between stations EG-9 and EG-10, in Eureka Gulch, that should be investigated further to determine if the loading source can be identified.

Several unanswered questions also remain about some of the mining sites discussed. These issues were discussed in the narrative for each individual site in this report. In most cases, the unanswered question must be investigated prior to a final decision on the best reclamation option. In many cases, the answer to the question may simply involve a water sample. However, in some cases, the answer may be more involved to better understand the site hydrology. For easy reference, these questions are consolidated and reviewed below.

South Fork Mines – The mine drainage from the two adits sampled as waste rock sites #16 and #17 should be sampled during low-flow and high-flow.

Highland Mary Mill Tailings - Additional sampling of the Highland Mary mill tailings should be done to determine whether the tailings can be used as a neutralizing/diluting agent for reclamation of acid forming sites in other portions of the Upper Animas Watershed.

Eureka Mill Tailings – Groundwater wells should be installed in the tailings south of the road, to determine the seasonal flow through the tailings and water quality of the groundwater.

Howardsville Mill Tailings – Groundwater wells should be installed to determine what impacts the mill tailings piles have on the Animas River. Also, the source of the water measured at sampling station ARD-2 should be investigated further.

Springs Near Lackawanna Bridge – The sources of the springs near the Lackawanna Bridge and the characteristics of the springs needs to be investigated further. These springs may be one of the largest sources of heavy metals in the Animas River below Eureka.

ANALYSIS OF RESULTS

Both natural and mining related metals loading affect water quality in the Animas River. One important aspect of this investigation was to quantify the relative contribution of surface mine waste and surface mine portal discharge sources from potential mining-related groundwater sources and natural background metals inflows to the Upper Animas River. A simple model can be used to provide some indication of the potential for water quality improvement if surface wastes and portal discharges were addressed.

To do this, dissolved zinc was selected as the parameter to be used to determine the relative percentage of metals that can be attributed to mining-related sources. Zinc was chosen because it is found in virtually all the mine drainages in the Animas River below Eureka, because there is a high correlation between zinc and other heavy metals of concern, and because it is a "conservative" metal, meaning that it is not readily precipitated. Therefore, the measured dissolved zinc load from the mine drainages will be approximately equal to the dissolved zinc load measured in the stream below the sources if there are no natural zinc sources or inflows of mining impacted groundwater. For example, between water quality stations EG-6 and EG-7, where there is only an inflow from the relatively clean Parsons Gulch, the dissolved zinc load, during low-flow, remained virtually the same. In contrast, dissolved iron, which is an example of a "non-conservative" metal, decreased to below detection limits in the same stream segment. This shows that iron is precipitating in the stream channel.

Dissolved manganese was not chosen because it was found that, during high-flow, much of the dissolved manganese precipitated along the main stem of the Animas River.

The relative contributions from mining-related surface discharge sources were investigated in the Animas River below Eureka at water quality station LA-9 above the confluence with Cement Creek. This station was chosen because the majority of the metals loading to the Animas River occurs above this point and during the high-flow sampling, a large portion of the dissolved zinc precipitated below this point. The measured low-flow dissolved zinc load at LA-9 was approximately 151 pounds per day. To determine the contributions from mining sources between Eureka and station LA-9, the 44 pounds of daily dissolved zinc measured at station UA-12 must be subtracted out, leaving a total of 107 pounds. At station LA-9, the upstream draining mines can account for about 5 lb/day, or about 5% of the dissolved zinc load. In contrast, the two sites ARD-1 and ARD-2 where dissolved zinc contributions from mining waste could be directly measured can account for about 12.5 pounds of dissolved zinc, or about 12% of the load.

The high-flow zinc load at station LA-9 was 1190 lb./day. Subtracting out the daily zinc load of 401 pounds at station UA-12 leave a total of 789 pounds. The mine drainages upstream of LA-9 can account for a maximum of about 25 lb/day, or about 3% of the dissolved zinc load. The daily dissolved zinc load from stations ARD-1 and ARD-2 can account for as much as 12 lb./day or 1.5% of the load at LA-9. This leads to a conclusion that the mine portal discharges above Eureka contribute 3 to 5% of the dissolved heavy metals at LA-9.

Quantification of heavy metals contribution by the mine waste is difficult. In general, surface mine waste will only contribute heavy metals to surface water during spring snowmelt and during thunderstorms. The leachate data collected on selected waste materials in the Upper Animas River indicates that about one to two orders of magnitude more heavy metals are available for leaching in the mining waste than in the background materials. There are approximately 708 mine features shown on the USGS Quadrangle map. If we assume that the average disturbance at a mining site is between 0.05 acres (45' x 45') and 0.1 acres (66' x 66'), the mining sites make up approximately 0.1% to 0.2% of the planar surface area. If one to two orders of magnitude (10 to 100 times) more metals are leached from the mining site, this would mean that 2 to 20% (0.1% or 0.2% X 10 or 100) of the metals loading during snowmelt and precipitation events comes from the mining wastes. The lower percentage of 2% is probably most appropriate, since the majority of the mining sites are far away from the nearest receiving stream, the majority of the mining sites in Cunningham Gulch, Minnie Gulch and Maggie Gulch are highly buffered, snowmelt occurs at different times in different areas depending upon the elevation and aspect, and only a portion of the runoff enters the stream. In many areas the heavy metals are attenuated by natural processes, particularly where there are only a few, small mining sites. In some areas such as Silver Lake, where there is a high concentration of mining features, the heavy metals contribution from mine waste piles may approach the 20% level.

Most of the mill tailings piles are probably sources of metal during the entire year. In general, the mill tailings piles are located in the bottoms of valleys where there is a perennial groundwater source. Metals inputs from most of the tailings sites cannot be estimated from the water quality data. There is direct evidence that the Howardsville mill tailings and the Eureka mill tailings, including the mixture of tailings and stream gravels are major sources of zinc and other heavy metals. The remaining mill tailings make up about 0.03% of the planar area of the watershed between sampling stations LA-9 and UA-12. In general, the zinc concentrations found in the mill tailings were 3 orders of magnitude more than found at un-mined sites. Therefore, following the analogy described above, the mill tailings, other than the Howardsville and Eureka tailings can be responsible for as much as 3% of the zinc load at sampling station LA-9.

During high-flow, there is an increase of at least 76 pounds of dissolved zinc per day between sampling stations LA-1 and LA-2 and possibly as much as 140 pounds. All or virtually all this loading increase is attributable to the Eureka Mill Tailings and scattered tailings mixed with stream gravels. The zinc loading in this area is 9.6% to 17.7% of the dissolved zinc measured at sampling station LA-9. During low-flow, there is a loading increase of almost 9 pounds of dissolved zinc per day in this same segment. This loading is 6% of the dissolved zinc load at sampling site LA-9. CDPH&E measured an increase in zinc loading in a slightly shorter segment of over 73 pounds of dissolved zinc per day in July of 1993. By assuming that there was no flow increase between Eureka Gulch and the CDPH&E sampling site upstream of Edith Gulch, there was an indirectly measured a load increase of 76 pound per day during June of 1992. The flow measured by CDPH&E at the same station as UA-12 was approximately 52% of the flow measured during this investigation. Assuming that there is a direct correlation between load and flow, this would correspond to a dissolved zinc load increase of 146 pounds per day.

There was a direct measurement of a portion of the dissolved zinc input from the Howardsville mill tailings at sampling station ARD-2. The dissolved zinc loading at this station was 12.2 pounds per day during low-flow and 9.7 pounds per day during high-flow. However, the loading increase between sampling stations LA-4 and LA-5, during low-flow, was almost 30 pounds per day. Less than 3 pounds per day of this loading increase can be attributed to inflows from Cunningham Gulch, Hematite Gulch and the mine drainages in this segment. The majority of the increased loading is may be from the Howardsville mill tailings. A loading increase of approximately 27 pounds per day is 17.9% of the dissolved zinc load at station LA-9.

During the high-flow sampling, the flow at station LA-4 could not be safely measured. However, subtracting the measured inflows from Cunningham Gulch, Hematite Gulch and the mine drainages, indicates that there was an increased dissolved zinc load of 155 pounds per day through this segment. Due to differences in the times when the stations were sampled, a reliable estimated loading from this segment cannot be made. Additional sampling should be done during high-flow to determine the loading from the Howardsville tailings. The CDPH&E data shows a dissolved zinc load increase of 13.5 lb./day in July of 1993 and 22 lb./day in September 1991 in the same segment as sampling stations LA-4 and LA-5. CDPH&E did not measure the flows at the stations bracketing the Howardsville mill tailings during June of 1992.

CDPH&E sampled the same station as ARD-2. Their dissolved zinc loading results were 5.6 lb./day in September 1991, 17.9 lb./day in June1992, 2.1 lb./day in October 1992 and 15.0 lb./day in July1993. The 17.9 lb./day load measured in June of 1992 was 4.7% of the incremental load measured at station A-68.

Adding the estimated contributions from waste rock piles, mill tailings piles and adit discharges, the estimated mining contribution is 32% during low-flow and high-flow. Using best management practices, reclamation of all the mining sources would probably result in a average metals loading reduction of about 80%. Therefore, if all the mining sites were reclaimed, the potential reduction in metals loading at sampling site LA-9 would be about 26%. Additional reduction of metals due to geochemical processes in the stream could further reduce the loading at the Eureka Townsite.

CONCLUSIONS

Based upon the analysis of data collected during this investigation, the following conclusions can be made.

1. The majority of the zinc loading between Eureka and Silverton comes from the mill tailings piles at Eureka and Howardsville.

2. Dissolved copper concentrations are generally above chronic aquatic toxicity limits in the Animas River below Eureka during high-flow. During low-flow, copper concentrations are generally above chronic aquatic toxicity limits below Arrasta Gulch. The principal source of the copper throughout the basin appears to be from natural sources and groundwater inflows to the river.

3. Dissolved zinc concentrations are generally higher during low-flow, while dissolved copper concentrations are generally higher during high-flow.

4. The mining sites in the Minnie Gulch, Maggie Gulch and Cunningham Gulch watersheds should be considered low priorities for reclamation. There would be very little improvement in the water quality of these streams by reclaiming any of the mine sites.

5. The mine drainage sources discharging at the surface, mill tailings piles and mine waste piles in the Upper Animas River contribute an estimated 32 % of the heavy metals in the Animas River below Eureka. The remaining load is a combination of natural background inflows, other anthropomorphic inflows and mining-related contaminated groundwater inflows. Groundwater characterization must be done before the remaining unknown loading sources can be partitioned.

6. The estimated annualized heavy metals contribution from mining sites in the Upper Animas River is 32%. If all the mining sites are reclaimed, the reduction in loading from the individual sites would vary, but would probably average about 80%. Therefore, if all the reclamation activities were completed, the overall loading reduction would be about 26%. Additional reduction of metals due to geochemical processes in the stream could further reduce the loading downstream.

7. Reclamation of the mining-related sources in the Upper Animas River is an important step in accomplishing the goal of improving the water quality in the Animas River Below Silverton. However, because of the high percentage of metals loading from natural and unknown sources in this drainage, reclamation of sites in the other watersheds in the Animas River Basin must also be conducted.

8. Table 3 is a brief synopsis of the reclamation recommended at this time at each of the sites discussed in this report. Detailed discussion of these recommended actions is provided in the text.

Table 3. Brief Synopsis of Reclamation Actions Recommended at This Time

Site	Recommended Action			
	Additional Investigation	Mine Drainage Reclamation	Waste Rock Reclamation	No Action at this time
EUREKA GULCH SITES				
Sunnyside Mine			X	
Clipper Mine			X	
Ben Franklin Prospect		X	X	
Ben Franklin Mine		X	X	
Bavarian Mine				X
Midway Mine DM-34				X
South Fork Mine 16				X
South Fork Mine 17				X
Moonbeam Mine		X		
Ransom Mine				X
MINNIE GULCH SITES				
Esmerelda Mine				X
Caledonia Mine				X
Kitti Mack Mine				X
Midway Tunnel				X
Unknown Prospect DM-72				X

SDMS-1261223
Page 151 of 237

Site	Recommended Action			
	Additional Investigation	Mine Drainage Reclamation	Waste Rock Reclamation	No Action at this time
MAGGIE GULCH SITES				
Queen of Maggie Mine				X
Iron Mask Mine				X
Little Maud Mine				X
Cunningham Gulch Sites				
Bradley Tunnel				X
Innis Tunnel				X
Highland Mary Mill Tailings				X
Green Mountain Mine				X
Shenandoah-Dives Mine				X
Spotted Pup Mine				X
Pride of the West Mine				X
Emma Mine				X
Buffalo Boy Mill Tailings				X
Old Hundred Mine				X
Old Hundred Mill Tailings				X
Hidden Treasure Mine				X
Smuggler Mine				X
Unknown Mine DM-50				X
Oyama Tunnel				X
Buffalo Boy Mine				X
Antiperiodic Mine				X
Gary Owen Mine				X
ARRASTRA GULCH SITES				
Royal Tiger Mine		X	X	
Iowa Mine		X	X	
Silver Lake Mill Tailings				X
Unity Tunnel		X		
Last Chance Tunnel		X		
Gold Lake Mill Tailings			X	
Solomon Mine				X
Black Prince Mine				X
Ezra R Mine			X	
Argentine Tunnel				X
Jess Mine				X
Mill Tailing Site #40			X	
ANIMAS RIVER BELOW EUREKA SITES				
Eureka Mill Tailings			X	
Mill Tailings Near Minnie Gulch			X	
Kitti Mack Mill Tailings			X	
Hamlet Mine		X		
Auburn Tunnel		X		
Unknown Mine DM-37				X
Unknown Mine DM-38				X
Progressive Mine				X
Silver Star Mine				X
Howardsville Mill Tailings			X	
Little Nation Mine		X		
Mill Tailings Site #20			X	
Mill Tailings Site #39			X	

SDMS-1261223
Page 152 of 237

Site	Recommended Action			
	Additional Investigation	Mine Drainage Reclamation	Waste Rock Reclamation	No Action at this time
Valley Forge Mine				X
Aspen Mine		X		
Blair Mountain Tunnel				X
Mill Tailings near Mayflower Mill			X	
Mill Tailings at Mouth of Blair Gulch			X	
Springs Near Lackawanna Bridge				X
Last Chance Mine				X
Mighty Monarch Mine		X		
Little Casino Mine				X
Idaho Mine				X
Champion Mine				X

SDMS-1261223
Page 153 of 237

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SDMS-1261223
Page 155 of 237

APPENDIX 1 – LOW-FLOW DATA

Animas River Below Eureka
Low-Flow Data

Site #	Description	Sample Time	Flow cfs	pH s.u.	Cond. umhos/cm	Temp. Deg C	Tot. Ag ug/l	Diss. Ag ug/l	Tot. Al ug/l	Diss. Al ug/l	Tot. As ug/l
UA-12	Animas above Eureka Confluence	1432	19.679	7.7	145	13.1	BDL	BDL	416	95	BDL
LA-1	Animas below Eureka Confluence	1401	24.01	7.68	178	12.3	BDL	BDL	350	97	BDL
LA-2	Animas above Minnie Confluence	1315	28.72	7.07			BDL	BDL	158	91	BDL
LA-3	Animas below Maggie Confluence	1220	28.403	7.77	170		BDL	BDL	160	80	BDL
LA-4	Animas above Howardsville Tails	1304	46.736	7.5	207	12.7	BDL	BDL	85	54	BDL
LA-5	Animas below Cunningham	1115	64.035	7.7	180		BDL	BDL	68	53	BDL
LA-6	Animas above Arrastra	1117	76.905	7.79	209	8.9	BDL	BDL	119	59	1
LA-7	Animas above Boulder	1020	76.757	7.74	210		BDL	BDL	138	51	BDL
LA-8	Animas below Boulder Creek	1010	76.216	7.6	215	7.8	BDL	BDL	114	47	BDL
LA-9	Animas below Mayflower Tails	940	82.278	7.53	241		BDL	BDL	162	62	1.5
EG-1	Eureka Gulch above Sunnyside	1035	0.083	7.52	121	11.2	BDL	BDL	B	BDL	BDL
EG-2	Eureka Gulch Headwaters	1125	0.125	6.04	233	12.6	BDL	BDL	268	273	BDL
EG-3	Eureka Gulch above Confluence	1000	0.355	7.42	140	6.9	BDL	BDL	B	BDL	BDL
EG-4	Eureka Gulch above Confluence	940	0.071	6.66	175	9.7	BDL	BDL	45	BDL	1.1
EG-5	Eureka Gulch below Tunnel	1440	0.419	7.82	233		BDL	BDL	67	63	BDL
EG-6	Eureka Gulch below Terry Tunnel	1400	0.887	7.76	216		BDL	BDL	86	71	BDL
EG-7	Eureka Gulch above South Fork	1200	1.395	7.01	265		BDL	BDL	B	66	BDL
EG-8	South Fork above Eureka Gulch	1110	2.63	7.46	333	7	BDL	BDL	275	50	BDL
EG-9	Eureka Gulch below South Fork	1010	4.643	7.32	260		BDL	BDL	179	BDL	BDL
EG-10	Eureka Gulch above Animas	1440	5.314	7.73			BDL	BDL	157	93	BDL
EG-11	Duplicate of EG-4	940	0.071	6.66	175	9.7	BDL	BDL	BDL	BDL	BDL
MI-1	Minnie Gulch above Esmerelda	1225	2.138	8.26	63	12.2	0.2	BDL	80	BDL	1.2
MI-2	Minnie Gulch below Esmerelda	1145	2.27	8.24	165	11.7	BDL	BDL	85	BDL	BDL
MI-3	Minnie Gulch above Tributary	1105	3.043	7.91	190	8.3	BDL	BDL	BDL	BDL	BDL
MI-4	Tributary containing Kitti Mack	1040	0.472	8.1	180	3.3	BDL	BDL	BDL	BDL	1.1
MI-5	Minnie Gulch below Tributary	1020	4.402	7.83	169	7.8	BDL	BDL	63	BDL	1
MI-6	Minnie Gulch above Animas	945	4.684	7.75	100	8	BDL	BDL	161	44	BDL
MA-1	Maggie Gulch above Draining Mine	1430	0.93	7.74	90	13.4	BDL	BDL	371	204	1.3
MA-2	Maggie Gulch below Upper Mines	1400	1.259	7.68	106	13.3	BDL	BDL	377	213	BDL
MA-6	Maggie Gulch above Animas	1310	5.062	8	140	12.8	BDL	BDL	300	BDL	1.5
MA-7	Duplicate of MA-6	1300	5.062	8	140	12.8	BDL	BDL	148	BDL	1.3
CU-1	Cunningham Gulch below Spencer Creek	1430	5.398	8.17	84	12.7	BDL	BDL	102	BDL	BDL
CU-2	Cunningham Gulch above Royal Tiger	1345	7.084	8.23	90	12.1	BDL	BDL	91	BDL	1
CU-3	Cunningham Gulch below Highland Mary Tails	1310	5.347	8.2	92	13.5	BDL	BDL	118	BDL	1.6
CU-4	Cunningham Gulch below Dives Creek	1210	7.992	8.15	101	3.2	BDL	BDL	55	BDL	1.4
CU-5	Cunningham Gulch above Stony Gulch	1110	8.901	7.95	57	10.2	BDL	BDL	98	BDL	BDL
CU-6	Cunningham Gulch below Stony Gulch	1030	9.536	8.09	115	9.7	BDL	BDL	207	BDL	BDL
CU-7	Cunningham Gulch above Animas	930	16.417	7.47	157	8.1	BDL	BDL	112	BDL	BDL
CU-8	Duplicate of CU-1	1440	5.398	8.17	84	12.7	BDL	BDL	54	BDL	BDL
CU-9	Duplicate of CU-6	1040	9.536	8.09	115	9.7	BDL	BDL	74	BDL	BDL
RG-1	Rocky Gulch below Buffalo Boy	1523	0.213	8.22	195	13.6	BDL	BDL	56	BDL	BDL
RG-2	Rein Gulch above waste piles	1443	0.067	8.33	294	13.9	BDL	BDL	61	BDL	BDL
RG-3	Rein Gulch below waste piles	1421	0.075	8.06	296	11.7	BDL	BDL	B	BDL	BDL
RG-4	Rocky Gulch below Rein Gulch	1332	0.4	8.06	229	13.6	BDL	BDL	61	BDL	1.6
RG-5	Duplicate of RG-4	1332	0.4	8.06	229	13.6	BDL	BDL	65	BDL	BDL
SG-1	Stony Gulch headwaters	1800	0.238				BDL	BDL	82	BDL	1
SG-2	Stony Gulch below draining mines	1500	0.648	7.88	242		BDL	BDL	93	BDL	1.6
SG-3	Stony Gulch above Cunningham Gulch	1743	1.817	8.11	227		BDL	BDL	95	BDL	1.4
SG-4	Duplicate of SG-3	1746	1.817	8.11	227		BDL	BDL	87	BDL	1.3
LG-1	Little Giant headwaters (main stream)	1134	0.413	7.65	101	9.7	BDL	BDL	59	BDL	BDL
LG-2	Little Giant below lakes (main stream)	1105	0.539	8.27	71	13.5	0.2	BDL	B	BDL	BDL
LG-3	Little Giant below Big Giant Mine (second stream)	1040	0.12	6.86	77	7.8	BDL	BDL	642	BDL	1.3
LG-4	Little Giant above Arrastra (main stream)	955	0.241	7.69	308	6.6	BDL	BDL	BDL	BDL	BDL
AB-1	Arrastra above Silver Lake	1305	0.372	5.15	114	3.9	BDL	BDL	BDL	BDL	1.7
AB-2	Arrastra below Silver Lake	1055	0.468	7.6	45	12.7	BDL	BDL	BDL	BDL	1.4
AB-4	Arrastra below Woodchuck	1445	6.69	8.01	148	5.2	BDL	BDL	54	BDL	BDL

Animas River Below Eureka
Low-Flow Data

Site #	Description	Sample Time	Flow cfs	pH s.u.	Cond. umhos/cm	Temp. Deg C	Tot. Ag ug/l	Diss. Ag ug/l	Tot. Al ug/l	Diss. Al ug/l	Tot. As ug/l
AB-5	Arrastra below Little Giant	1355	4.98	8.04	162	8.7	BDL	BDL	BDL	BDL	BDL
AB-6	Arrastra above Animas	1250	6.835	7.8	161	10.3	BDL	BDL	88	BDL	BDL
WB-2	Woodchuck before flowing into Unity Tunnel	1715	0.111	6.26	86	9	BDL	BDL	BDL	BDL	1.8
WB-3	Drainage from lower portal of Unity Tunnel	1645	0.022	6.71	314	5	BDL	BDL	BDL	BDL	BDL
DB-1	Dives Basin above Cunningham Gulch	1610	0.204	8.21	181	10.8	BDL	BDL	BDL	BDL	BDL
HG-1	Hematite Gulch above Animas	1223	1.22	8.22	204	10.2	BDL	BDL	44	BDL	BDL
BG-1	Boulder Gulch above Animas	1403	1.243	7.91			BDL	BDL	40	BDL	BDL
BL-1	Blair Gulch above Animas	1330	0.2	7.36	275	13.7	BDL	BDL	95	BDL	1.3
SW-1	Swansea Gulch above Animas	1130	1.675	7.5	113		BDL	BDL	176	BDL	BDL
DM-32	Ben Franklin Prospect	1135	0.022	6.06	718	11.4	BDL	BDL	232	139	1.3
DM-33	Bavarian Mine Drainage	1236	0.001	3.29	496	8	0.4	0.3	120	131	BDL
DM-34	Midway Mine Drainage	1350	0.007	7.26	1452	11.5	BDL	BDL	BDL	BDL	BDL
DM-35	Moonbeam Mine Drainage	1527	0.067	7.56	546	8.6	BDL	BDL	BDL	BDL	1.4
DM-36	Aubum Tunnel Drainage	1045	0.243	7.72	954		BDL	BDL	78	BDL	1.5
DM-37	Unknown Draining Mine in Aspens	1200	0.095	7.48	678		BDL	BDL	B	BDL	BDL
DM-38	Unknown Draining Mine across from Maggie Gulch	1600	0.034	7.59	568		BDL	BDL	B	BDL	BDL
DM-39	Hamlet Mine Drainage	945	0.331	7.56	863		BDL	BDL	B	BDL	2.8
DM-40	Esmerelda Mine Drainage	1250	0.035	8	780	8.1	BDL	BDL	46	BDL	BDL
DM-43	Silver Star Mine Drainage	1352	0.103	7.7	780		BDL	BDL	BDL	BDL	1.9
DM-44	Hidden Treasure Mine Drainage	1500	0.008	6.8	301	6.3	BDL	BDL	54	BDL	BDL
DM-45	Old Hundred Mine Drainage	1350	1.146	8.22	498	11.6	BDL	BDL	BDL	BDL	1.7
DM-46	Smuggler Mine Drainage	1245	0.023	7.65	313	5.9	BDL	BDL	BDL	BDL	1.4
DM-47	Emma Mine Drainage	1651	0.036	7.54	605	9.5	BDL	BDL	BDL	BDL	2
DM-49	Oyama Tunnel Mine Drainage	1550	0.072	7.69	387	5.6	BDL	BDL	41	BDL	2.5
DM-50	Unknown Draining mine near top of Stony Pass	1545	0.002	7	209	3.9	BDL	BDL	102	BDL	4.1
DM-51	Pride of the West Mine Drainage	1150	0.227	8.57	352	7.6	BDL	BDL	84	BDL	BDL
DM-52	Green Mountain Mine Drainage	1630	0.008	8.3	238	5.5	BDL	BDL	BDL	BDL	BDL
DM-53	Innis Tunnel Drainage	1115	0.053	7.84	304	8	BDL	BDL	68	BDL	2
DM-54	Bradley Tunnel Drainage	1025	0.003	7.67	345	3.4	BDL	BDL	411	BDL	1.2
DM-56	Little Nation Mine Drainage	1512	0.137	7.01	577		BDL	BDL	83	72	BDL
DM-57	Valley Forge Mine Drainage	1018	0.111	7.39	337	10.6	BDL	BDL	61	BDL	BDL
DM-58	Ezra Mine Drainage	1255	0.011	7.67	216	4.9	BDL	BDL	BDL	BDL	1
DM-59	King Solomon Mine Drainage	1055	0.001	7.71	98	3.4	BDL	BDL	BDL	BDL	BDL
DM-60	Black Prince Mine Drainage	1140	0.061	7.85	62	4.7	BDL	BDL	531	BDL	BDL
DM-62	Iowa Mine Drainage	1144	0.001	7.32	41	9.6	BDL	BDL	BDL	BDL	BDL
DM-63	Royal Tiger Mine Drainage	1232	0.007	4.88	350	6.9	BDL	BDL	5752	5733	BDL
DM-64	Aspen Mine Drainage	1200	0.421	7.07	747	9.4	BDL	BDL	BDL	BDL	1.5
DM-65	Blair Mountain Tunnel Drainage	1315	0.06	6.95	852	14.4	BDL	BDL	BDL	BDL	5.4
DM-66	Last Chance Mine Drainage	1402	0.277	7.37	293	8.3	BDL	BDL	BDL	BDL	1.1
DM-67	Mighty Monarch Mine Drainage	1455	0.064	7.41	349	8.9	BDL	BDL	BDL	BDL	2.6
DM-69	Ransom Mine Drainage	1625	0.061	7.61	1263	10.1	BDL	BDL	BDL	BDL	BDL
DM-71	Queen of Maggie Mine Drainage	1430	0.007	4.61	230	7.2	BDL	BDL	B	BDL	4.7
DM-72	Unknown Draining mine in Lower Minnie Gulch	1030	0.001	3.84	513	6.7	BDL	BDL	1675	1687	BDL
DM-73	Little Casino Mine Drainage	1537	0.004	7.57	395	6.7	BDL	BDL	57	BDL	1.2
DM-74	Midway Tunnel Drainage	1157	0.018	7.56	1167	12.8	BDL	BDL	B	56	BDL
DM-75	Joseph Neff Mine Drainage	1103	0.013	5.48	505	10.5	BDL	BDL	1485	1450	1.1
DM-77	Jess Mine Drainage	1410	0.006	7.93	385	6.4	BDL	BDL	66	BDL	BDL
DM-78	Argentine Tunnel Drainage	1325	0.041	8.17	369	6.3	BDL	BDL	B	BDL	1.2
DM-79	South Iowa Adit	1350	0.002	5.15	114	3.9	BDL	BDL	445	394	BDL
ARD-1	Acidic drainage from waste pile in Eureka	1207	0.007	3.25	838	14.2	2.3	2.1	4598	4572	BDL
ARD-2	Acidic drainage from Howardsville Tails	1430	0.38	6.24	819		BDL	BDL	670	605	1.4
A-72	Animas Gage	1540	201	7.21			BDL	BDL	1102	BDL	2.3
A-72	Animas Gage 7-8-98	1000	795	6.89	560	8.7		BDL		BDL	
A-68	Animas above Cement Creek	1015	83	6.89	233	8.8	BDL	BDL	160	BDL	1
M-34	Mineral Creek Gage	1555	88	7.3			BDL	BDL	1426	54	4.6
C-48	Cement Creek Gage	1700	17	3.47	1254	20.9	BDL	BDL	4705	4920	5.4

Animas River Below Eureka
Low-Flow Data

Site #	Description	Diss. As	Tot. Ba	Diss. Ba	Tot. Be	Diss. Be	Tot. Cd	Diss. Cd	Tot. Co	Diss. Co	Tot. Cr
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
UA-12	Animas above Eureka Confluence	BDL	12	11	BDL	BDL	2.3	1.8	BDL	BDL	BDL
LA-1	Animas below Eureka Confluence	BDL	12	12	BDL	BDL	1.8	1.4	8	BDL	BDL
LA-2	Animas above Minnie Confluence	BDL	12	12	BDL	BDL	1.2	1.1	BDL	BDL	BDL
LA-3	Animas below Maggie Confluence	BDL	22	20	BDL	BDL	1.2	0.7	BDL	BDL	BDL
LA-4	Animas above Howardsville Tails	BDL	22	21	BDL	BDL	0.6	BDL	BDL	BDL	BDL
LA-5	Animas below Cunningham	BDL	26	26	BDL	BDL	0.6	BDL	BDL	BDL	BDL
LA-6	Animas above Arrastra	BDL	27	25	BDL	BDL	0.7	BDL	BDL	7	BDL
LA-7	Animas above Boulder	1.3	27	25	BDL	BDL	0.7	0.7	BDL	BDL	BDL
LA-8	Animas below Boulder Creek	BDL	26	24	BDL	BDL	0.7	0.6	BDL	BDL	BDL
LA-9	Animas below Mayflower Tails	BDL	26	24	BDL	BDL	0.8	0.6	BDL	BDL	BDL
EG-1	Eureka Gulch above Sunnyside	BDL	18	18	BDL	BDL	BDL	BDL	BDL	BDL	BDL
EG-2	Eureka Gulch Headwaters	BDL	16	16	BDL	BDL	10.8	10	BDL	BDL	BDL
EG-3	Eureka Gulch above Confluence	BDL	16	15	BDL	BDL	BDL	BDL	BDL	BDL	BDL
EG-4	Eureka Gulch above Confluence	BDL	18	17	BDL	BDL	2.9	3.3	BDL	BDL	BDL
EG-5	Eureka Gulch below Tunnel	BDL	18	18	BDL	BDL	1.1	1	BDL	BDL	BDL
EG-6	Eureka Gulch below Terry Tunnel	1.5	14	14	BDL	BDL	1	0.9	BDL	BDL	BDL
EG-7	Eureka Gulch above South Fork	BDL	15	14	BDL	BDL	0.6	BDL	BDL	8	BDL
EG-8	South Fork above Eureka Gulch	1.2	12	12	BDL	BDL	BDL	BDL	BDL	BDL	BDL
EG-9	Eureka Gulch below South Fork	BDL	13	13	BDL	BDL	BDL	BDL	BDL	BDL	BDL
EG-10	Eureka Gulch above Animas	BDL	13	14	BDL	BDL	1	0.9	BDL	BDL	BDL
EG-11	Duplicate of EG-4	1.6	17	17	BDL	BDL	2.6	2.8	BDL	BDL	BDL
MI-1	Minnie Gulch above Esmerelda	BDL	106	103	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MI-2	Minnie Gulch below Esmerelda	BDL	100	96	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MI-3	Minnie Gulch above Tributary	BDL	72	71	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MI-4	Tributary containing Kitti Mack	BDL	33	32	BDL	BDL	BDL	BDL	BDL	BDL	6
MI-5	Minnie Gulch below Tributary	BDL	66	64	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MI-6	Minnie Gulch above Animas	BDL	50	49	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MA-1	Maggie Gulch above Draining Mine	2.2	36	35	BDL	BDL	BDL	BDL	BDL	8	BDL
MA-2	Maggie Gulch below Upper Mines	BDL	36	35	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MA-6	Maggie Gulch above Animas	1.4	49	47	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MA-7	Duplicate of MA-6	1.5	49	46	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CU-1	Cunningham Gulch below Spencer Creek	BDL	60	56	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CU-2	Cunningham Gulch above Royal Tiger	BDL	63	59	BDL	BDL	BDL	BDL	9	BDL	BDL
CU-3	Cunningham Gulch below Highland Mary Tails	BDL	63	60	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CU-4	Cunningham Gulch below Dives Creek	BDL	59	56	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CU-5	Cunningham Gulch above Stony Gulch	BDL	55	52	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CU-6	Cunningham Gulch below Stony Gulch	BDL	52	49	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CU-7	Cunningham Gulch above Animas	BDL	46	44	BDL	BDL	BDL	BDL	8	BDL	BDL
CU-8	Duplicate of CU-1	BDL	52	56	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CU-9	Duplicate of CU-6	BDL	50	48	BDL	BDL	BDL	BDL	BDL	BDL	BDL
RG-1	Rocky Gulch below Buffalo Boy	BDL	37	35	BDL	BDL	BDL	BDL	BDL	BDL	BDL
RG-2	Rein Gulch above waste piles	BDL	38	36	BDL	BDL	BDL	BDL	BDL	BDL	BDL
RG-3	Rein Gulch below waste piles	BDL	42	41	BDL	BDL	BDL	BDL	BDL	BDL	BDL
RG-4	Rocky Gulch below Rein Gulch	BDL	50	47	BDL	BDL	BDL	BDL	BDL	BDL	BDL
RG-5	Duplicate of RG-4	BDL	50	49	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SG-1	Stony Gulch headwaters	BDL	5	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SG-2	Stony Gulch below draining mines	1	40	37	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SG-3	Stony Gulch above Cunningham Gulch	1.1	34	32	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SG-4	Duplicate of SG-3	BDL	34	32	BDL	BDL	BDL	BDL	BDL	BDL	BDL
LG-1	Little Giant headwaters (main stream)	BDL	23	21	BDL	BDL	1.1	BDL	BDL	BDL	BDL
LG-2	Little Giant below lakes (main stream)	1.4	11	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL
LG-3	Little Giant below Big Giant Mine (second stream)	BDL	25	17	BDL	BDL	BDL	BDL	BDL	BDL	6
LG-4	Little Giant above Arrastra (main stream)	1.6	10	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AB-1	Arrastra above Silver Lake	BDL	36	32	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AB-2	Arrastra below Silver Lake	BDL	18	16	BDL	BDL	0.9	1	BDL	BDL	BDL
AB-4	Arrastra below Woodchuck	BDL	15	14	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Animas River Below Eureka
Low-Flow Data

Site #	Description	Diss. As	Tot. Ba	Diss. Ba	Tot. Be	Diss. Be	Tot. Cd	Diss. Cd	Tot. Co	Diss. Co	Tot. Cr
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
AB-5	Arrastra below Little Giant	BDL	21	20	BDL	BDL	0.9	0.8	BDL	BDL	BDL
AB-6	Arrastra above Animas	BDL	25	22	BDL	BDL	0.8	0.9	BDL	BDL	BDL
WB-2	Woodchuck before flowing into Unity Tunnel	BDL	12	11	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WB-3	Drainage from lower portal of Unity Tunnel	BDL	15	14	BDL	BDL	0.6	1	BDL	BDL	BDL
DB-1	Dives Basin above Cunningham Gulch	BDL	34	32	BDL	BDL	BDL	BDL	BDL	BDL	BDL
HG-1	Hematite Gulch above Animas	BDL	4	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BG-1	Boulder Gulch above Animas	BDL	9	9	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BL-1	Blair Gulch above Animas	BDL	14	13	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SW-1	Swansea Gulch above Animas	BDL	28	24	BDL	BDL	0.7	1.1	BDL	BDL	BDL
DM-32	Ben Franklin Prospect	BDL	29	27	BDL	BDL	0.7	0.8	BDL	BDL	BDL
DM-33	Bavarian Mine Drainage	BDL	7	6	BDL	BDL	4.8	5.4	BDL	BDL	BDL
DM-34	Midway Mine Drainage	1.9	4	3	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-35	Moonbeam Mine Drainage	BDL	11	9	BDL	BDL	0.7	0.7	BDL	BDL	BDL
DM-36	Auburn Tunnel Drainage	1	9	8	BDL	BDL	0.6	BDL	BDL	BDL	BDL
DM-37	Unknown Draining Mine in Aspens	BDL	12	11	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-38	Unknown Draining Mine across from Maggie Gulch	BDL	6	6	BDL	BDL	0.9	BDL	BDL	BDL	BDL
DM-39	Hamlet Mine Drainage	BDL	11	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-40	Esmerelda Mine Drainage	BDL	45	40	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-43	Silver Star Mine Drainage	1	4	4	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-44	Hidden Treasure Mine Drainage	BDL	12	11	BDL	BDL	0.9	1.1	12	19	BDL
DM-45	Old Hundred Mine Drainage	1.3	10	9	BDL	BDL	0.6	0.7	BDL	BDL	BDL
DM-46	Smuggler Mine Drainage	1.3	12	11	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-47	Emma Mine Drainage	BDL	22	19	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-49	Oyama Tunnel Mine Drainage	1.8	14	12	BDL	BDL	BDL	BDL	BDL	7	BDL
DM-50	Unknown Draining mine near top of Stony Pass	BDL	21	17	BDL	BDL	BDL	BDL	BDL	8	BDL
DM-51	Pride of the West Mine Drainage	BDL	7	6	BDL	BDL	5.7	6.3	BDL	BDL	BDL
DM-52	Green Mountain Mine Drainage	BDL	12	12	BDL	BDL	4.9	5.7	BDL	BDL	BDL
DM-53	Innis Tunnel Drainage	BDL	11	9	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-54	Bradley Tunnel Drainage	BDL	13	12	1	BDL	12	12.9	BDL	14	BDL
DM-56	Little Nation Mine Drainage	BDL	10	11	1	1	0.9	1	BDL	17	BDL
DM-57	Valley Forge Mine Drainage	BDL	7	6	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-58	Ezra Mine Drainage	1.1	23	20	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-59	King Solomon Mine Drainage	BDL	5	5	BDL	BDL	0.9	1	BDL	8	BDL
DM-60	Black Prince Mine Drainage	BDL	11	6	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-62	Iowa Mine Drainage	BDL	16	16	BDL	BDL	5.4	6.1	BDL	BDL	BDL
DM-63	Royal Tiger Mine Drainage	BDL	6	6	2	2	37.1	37.9	46	51	B
DM-64	Aspen Mine Drainage	BDL	18	16	BDL	BDL	2.6	3.6	BDL	BDL	BDL
DM-65	Blair Mountain Tunnel Drainage	3.2	16	14	BDL	BDL	BDL	BDL	BDL	11	BDL
DM-66	Last Chance Mine Drainage	BDL	35	32	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-67	Mighty Monarch Mine Drainage	BDL	19	18	BDL	BDL	1.9	1.6	BDL	BDL	BDL
DM-69	Ransom Mine Drainage	BDL	BDL	3	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-71	Queen of Maggie Mine Drainage	BDL	20	19	BDL	BDL	BDL	0.7	BDL	BDL	BDL
DM-72	Unknown Draining mine in Lower Minnie Gulch	BDL	10	9	1	1	BDL	BDL	15	20	BDL
DM-73	Little Casino Mine Drainage	BDL	14	13	1	BDL	1	0.8	BDL	9	BDL
DM-74	Midway Tunnel Drainage	BDL	14	14	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-75	Joseph Neff Mine Drainage	BDL	8	7	1	1	BDL	BDL	12	14	BDL
DM-77	Jess Mine Drainage	2.1	11	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-78	Argentine Tunnel Drainage	1.4	10	9	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-79	South Iowa Adit	BDL	29	28	BDL	BDL	47	29.4	BDL	BDL	BDL
ARD-1	Acidic drainage from waste pile in Eureka	BDL	25	23	1	1	20	18.1	14	15	BDL
ARD-2	Acidic drainage from Howardsville Tails	1.5	27	25	1	BDL	7.7	7.7	18	19	BDL
A-72	Animas Gage	BDL	22	21	BDL	BDL	0.9	0.8	BDL	BDL	BDL
A-72	Animas Gage 7-8-98	BDL		21		BDL		0.8		BDL	
A-68	Animas above Cement Creek	BDL	25	24	BDL	BDL	0.9	0.9	BDL	BDL	BDL
M-34	Mineral Creek Gage	BDL	23	22	BDL	BDL	BDL	BDL	7	BDL	BDL
C-48	Cement Creek Gage	BDL	14	13	1	1	1.3	1.4	17	12	BDL

Animas River Below Eureka
Low-Flow Data

Site #	Description	Diss. Cr	Tot. Cu	Diss. Cu	Tot. Fe	Diss. Fe	Tot. Mn	Diss. Mn	Tot. Ni	Diss. Ni	Tot. Pb
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
UA-12	Animas above Eureka Confluence	BDL	15	8	89	BDL	749	734	BDL	BDL	3.6
LA-1	Animas below Eureka Confluence	BDL	38	6	89	BDL	638	619	11	BDL	4.6
LA-2	Animas above Minnie Confluence	BDL	10	6	32	7	429	434	BDL	BDL	1.8
LA-3	Animas below Maggie Confluence	BDL	9	7	89	13	343	330	BDL	BDL	1.8
LA-4	Animas above Howardsville Tails	BDL	5	BDL	44	7	156	151	BDL	BDL	1.7
LA-5	Animas below Cunningham	BDL	5	BDL	87	37	266	260	BDL	BDL	2
LA-6	Animas above Arrastra	BDL	6	BDL	114	24	258	240	BDL	BDL	2.9
LA-7	Animas above Boulder	BDL	9	BDL	149	20	262	247	BDL	BDL	6.9
LA-8	Animas below Boulder Creek	BDL	6	BDL	115	16	414	388	BDL	BDL	4.7
LA-9	Animas below Mayflower Tails	BDL	6	7	152	19	648	620	BDL	BDL	5.8
EG-1	Eureka Gulch above Sunnyside	BDL	BDL	BDL	11	BDL	1	1	BDL	BDL	BDL
EG-2	Eureka Gulch Headwaters	BDL	41	37	29	12	1265	1232	16	BDL	4.2
EG-3	Eureka Gulch above Confluence	BDL	BDL	BDL	30	11	11	10	BDL	BDL	1
EG-4	Eureka Gulch above Confluence	BDL	12	BDL	105	36	214	192	BDL	BDL	1.7
EG-5	Eureka Gulch below Tunnel	BDL	22	16	131	61	158	152	BDL	BDL	21.2
EG-6	Eureka Gulch below Terry Tunnel	BDL	16	12	37	7	266	256	BDL	BDL	9.8
EG-7	Eureka Gulch above South Fork	BDL	9	6	13	BDL	102	96	BDL	BDL	3.5
EG-8	South Fork above Eureka Gulch	BDL	9	BDL	335	118	95	94	BDL	BDL	BDL
EG-9	Eureka Gulch below South Fork	BDL	10	9	197	83	97	99	11	BDL	1.3
EG-10	Eureka Gulch above Animas	BDL	15	7	110	6	153	149	BDL	BDL	1.2
EG-11	Duplicate of EG-4	BDL	13	BDL	71	43	196	195	BDL	BDL	1.1
MI-1	Minnie Gulch above Esmerelda	BDL	5	BDL	80	6	3	BDL	BDL	BDL	BDL
MI-2	Minnie Gulch below Esmerelda	BDL	BDL	BDL	78	6	4	1	BDL	BDL	BDL
MI-3	Minnie Gulch above Tributary	BDL	BDL	BDL	22	BDL	1	BDL	BDL	BDL	BDL
MI-4	Tributary containing Kitti Mack	BDL	5	BDL	B	BDL	1	BDL	BDL	BDL	BDL
MI-5	Minnie Gulch below Tributary	BDL	BDL	BDL	30	BDL	1	1	BDL	BDL	BDL
MI-6	Minnie Gulch above Animas	BDL	BDL	BDL	186	61	26	21	BDL	BDL	0.9
MA-1	Maggie Gulch above Draining Mine	BDL	5	BDL	257	72	200	193	BDL	BDL	BDL
MA-2	Maggie Gulch below Upper Mines	BDL	BDL	BDL	248	75	183	176	BDL	BDL	BDL
MA-6	Maggie Gulch above Animas	BDL	BDL	BDL	166	8	8	2	BDL	BDL	0.7
MA-7	Duplicate of MA-6	BDL	5	BDL	108	8	9	1	BDL	BDL	BDL
CU-1	Cunningham Gulch below Spencer Creek	BDL	BDL	BDL	78	14	7	1	BDL	BDL	BDL
CU-2	Cunningham Gulch above Royal Tiger	BDL	BDL	BDL	73	14	7	1	BDL	BDL	0.8
CU-3	Cunningham Gulch below Highland Mary Tails	BDL	BDL	BDL	96	9	10	3	BDL	BDL	2.4
CU-4	Cunningham Gulch below Dives Creek	BDL	BDL	BDL	83	BDL	9	2	BDL	BDL	3.8
CU-5	Cunningham Gulch above Stony Gulch	BDL	BDL	BDL	90	BDL	10	5	BDL	BDL	3.7
CU-6	Cunningham Gulch below Stony Gulch	BDL	6	BDL	108	BDL	15	4	BDL	BDL	6.4
CU-7	Cunningham Gulch above Animas	BDL	6	BDL	97	6	15	9	BDL	BDL	4.9
CU-8	Duplicate of CU-1	BDL	BDL	BDL	131	14	6	1	BDL	BDL	BDL
CU-9	Duplicate of CU-6	BDL	BDL	BDL	81	BDL	11	4	BDL	BDL	4
RG-1	Rocky Gulch below Buffalo Boy	BDL	BDL	BDL	36	BDL	3	BDL	BDL	BDL	24.5
RG-2	Rein Gulch above waste piles	BDL	BDL	BDL	29	BDL	2	BDL	BDL	BDL	BDL
RG-3	Rein Gulch below waste piles	BDL	6	BDL	26	BDL	3	1	BDL	BDL	5.4
RG-4	Rocky Gulch below Rein Gulch	BDL	BDL	BDL	36	BDL	3	BDL	BDL	BDL	5.2
RG-5	Duplicate of RG-4	BDL	BDL	BDL	42	BDL	4	BDL	BDL	BDL	0.7
SG-1	Stony Gulch headwaters	BDL	BDL	BDL	49	21	3	2	BDL	BDL	BDL
SG-2	Stony Gulch below draining mines	BDL	BDL	BDL	128	12	11	3	BDL	BDL	0.8
SG-3	Stony Gulch above Cunningham Gulch	BDL	6	BDL	82	BDL	9	2	BDL	BDL	5.1
SG-4	Duplicate of SG-3	BDL	6	BDL	71	BDL	9	2	BDL	BDL	4.8
LG-1	Little Giant headwaters (main stream)	BDL	BDL	BDL	31	BDL	3	BDL	BDL	BDL	3.1
LG-2	Little Giant below lakes (main stream)	BDL	10	6	22	BDL	4	3	BDL	BDL	4.2
LG-3	Little Giant below Big Giant Mine (second stream)	BDL	8	BDL	431	BDL	27	17	BDL	BDL	12.7
LG-4	Little Giant above Arrastra (main stream)	BDL	BDL	BDL	9	BDL	2	BDL	BDL	BDL	1.2
AB-1	Arrastra above Silver Lake	BDL	BDL	BDL	BDL	BDL	1	BDL	BDL	BDL	BDL
AB-2	Arrastra below Silver Lake	BDL	16	9	28	6	43	37	BDL	BDL	7.3
AB-4	Arrastra below Woodchuck	BDL	6	BDL	47	BDL	7	BDL	BDL	BDL	6.2

Animas River Below Eureka
Low-Flow Data

Site #	Description	Diss. Cr	Tot. Cu	Diss. Cu	Tot. Fe	Diss. Fe	Tot. Mn	Diss. Mn	Tot. Ni	Diss. Ni	Tot. Pb
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
AB-5	Arrastra below Little Giant	BDL	9	7	9	BDL	4	1	BDL	BDL	3.3
AB-6	Arrastra above Animas	BDL	10	5	104	BDL	13	2	BDL	BDL	10.3
WB-2	Woodchuck before flowing into Unity Tunnel	BDL	BDL	BDL	6	BDL	1	BDL	BDL	BDL	BDL
WB-3	Drainage from lower portal of Unity Tunnel	BDL	6	BDL	10	BDL	2	1	BDL	BDL	9.3
DB-1	Dives Basin above Cunningham Gulch	BDL	BDL	BDL	15	BDL	4	1	BDL	BDL	1.9
HG-1	Hematite Gulch above Animas	BDL	BDL	BDL	19	BDL	3	BDL	BDL	BDL	BDL
BG-1	Boulder Gulch above Animas	BDL	6	5	10	BDL	245	243	BDL	BDL	0.6
BL-1	Blair Gulch above Animas	BDL	BDL	BDL	175	13	53	29	BDL	BDL	0.8
SW-1	Swansea Gulch above Animas	BDL	5	BDL	235	20	37	22	BDL	BDL	10.3
DM-32	Ben Franklin Prospect	BDL	29	BDL	214	64	93	88	11	BDL	5.5
DM-33	Bavarian Mine Drainage	BDL	436	494	2331	2881	3651	4054	12	BDL	420
DM-34	Midway Mine Drainage	BDL	BDL	BDL	B	BDL	1	2	BDL	BDL	BDL
DM-35	Moonbeam Mine Drainage	BDL	BDL	BDL	264	71	500	403	BDL	BDL	3.3
DM-36	Auburn Tunnel Drainage	BDL	BDL	BDL	511	165	296	274	BDL	BDL	0.6
DM-37	Unknown Draining Mine in Aspens	BDL	BDL	BDL	5028	4699	616	576	BDL	BDL	BDL
DM-38	Unknown Draining Mine across from Maggie Gulch	BDL	6	BDL	1015	439	315	296	BDL	BDL	6.1
DM-39	Hamlet Mine Drainage	BDL	BDL	BDL	636	211	574	549	BDL	BDL	BDL
DM-40	Esmerelda Mine Drainage	BDL	BDL	BDL	38	BDL	18	14	BDL	BDL	BDL
DM-43	Silver Star Mine Drainage	BDL	BDL	BDL	10	15	29	27	BDL	BDL	BDL
DM-44	Hidden Treasure Mine Drainage	BDL	BDL	BDL	4406	3197	1487	1449	12	BDL	BDL
DM-45	Old Hundred Mine Drainage	BDL	BDL	BDL	9	BDL	2	BDL	BDL	BDL	1.6
DM-46	Smuggler Mine Drainage	BDL	BDL	BDL	2102	1775	645	630	BDL	BDL	BDL
DM-47	Emma Mine Drainage	BDL	BDL	BDL	166	7	329	10	BDL	BDL	0.7
DM-49	Oyama Tunnel Mine Drainage	BDL	5	BDL	819	209	928	870	BDL	BDL	BDL
DM-50	Unknown Draining mine near top of Stony Pass	BDL	7	BDL	4360	1927	33	34	BDL	BDL	BDL
DM-51	Pride of the West Mine Drainage	BDL	29	13	127	BDL	235	229	BDL	BDL	11.2
DM-52	Green Mountain Mine Drainage	BDL	8	7	B	5	4	4	11	BDL	12
DM-53	Innis Tunnel Drainage	BDL	7	BDL	70	BDL	6	2	12	BDL	2.2
DM-54	Bradley Tunnel Drainage	BDL	453	130	50	BDL	2104	2121	21	11	59
DM-56	Little Nation Mine Drainage	BDL	8	BDL	6054	5496	1291	1274	14	BDL	1.7
DM-57	Valley Forge Mine Drainage	BDL	BDL	BDL	97	BDL	4	BDL	BDL	BDL	0.9
DM-58	Ezra Mine Drainage	BDL	7	BDL	13	BDL	14	11	BDL	BDL	6.1
DM-59	King Solomon Mine Drainage	BDL	26	24	39	14	5	5	BDL	BDL	6.6
DM-60	Black Prince Mine Drainage	BDL	5	BDL	449	BDL	83	BDL	BDL	BDL	2.8
DM-62	Iowa Mine Drainage	BDL	24	22	26	BDL	15	13	BDL	BDL	18.6
DM-63	Royal Tiger Mine Drainage	BDL	1390	1394	2208	343	6710	6460	15	16	2208
DM-64	Aspen Mine Drainage	BDL	8	5	13	BDL	2	2	BDL	BDL	0.7
DM-65	Blair Mountain Tunnel Drainage	BDL	5	8	864	617	404	362	BDL	BDL	BDL
DM-66	Last Chance Mine Drainage	BDL	BDL	BDL	316	247	451	411	BDL	BDL	BDL
DM-67	Mighty Monarch Mine Drainage	BDL	6	BDL	373	47	898	847	BDL	BDL	1.4
DM-69	Ransom Mine Drainage	BDL	6	BDL	8	14	1	78	BDL	BDL	BDL
DM-71	Queen of Maggie Mine Drainage	BDL	BDL	BDL	2440	1213	2099	20	BDL	BDL	BDL
DM-72	Unknown Draining mine in Lower Minnie Gulch	BDL	BDL	BDL	3748	3486	1284	1237	BDL	BDL	BDL
DM-73	Little Casino Mine Drainage	BDL	8	BDL	70	5	72	47	BDL	BDL	1.3
DM-74	Midway Tunnel Drainage	5	BDL	BDL	13	BDL	24	12	BDL	BDL	BDL
DM-75	Joseph Neff Mine Drainage	BDL	10	BDL	450	378	431	405	BDL	BDL	2.1
DM-77	Jess Mine Drainage	BDL	BDL	BDL	295	59	210	200	BDL	BDL	2.1
DM-78	Argentine Tunnel Drainage	BDL	BDL	BDL	BDL	BDL	3	2	BDL	BDL	1.3
DM-79	South Iowa Adit	BDL	399	403	408	57	138	134	BDL	BDL	991
ARD-1	Acidic drainage from waste pile in Eureka	BDL	1381	1358	2308	2217	15550	14730	BDL	BDL	1519
ARD-2	Acidic drainage from Howardsville Tails	BDL	17	BDL	5578	4519	19590	18340	BDL	BDL	28.5
A-72	Animas Gage	BDL	18	BDL	1346	293	580	570	BDL	BDL	6
A-72	Animas Gage 7-8-98	BDL		BDL		293		570		BDL	
A-68	Animas above Cement Creek	BDL	7	BDL	133	15	680	682	BDL	BDL	4.7
M-34	Mineral Creek Gage	BDL	29	6	1813	554	215	213	BDL	BDL	4.4
C-48	Cement Creek Gage	BDL	38	39	4583	2961	1434	1462	BDL	BDL	15

Animas River Below Eureka
Low-Flow Data

Site #	Description	Diss. Pb	Tot. Sb	Diss. Sb	Tot. Th	Diss. Th	Tot. Va	Diss. Va	Tot.Zn	Diss. Zn	Diss. Ca
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l
UA-12	Animas above Eureka Confluence	BDL	BDL	BDL	BDL	BDL	BDL	BDL	438	418	28.1
LA-1	Animas below Eureka Confluence	BDL	BDL	BDL	BDL	BDL	BDL	BDL	453	429	32.2
LA-2	Animas above Minnie Confluence	BDL	BDL	BDL	BDL	BDL	BDL	BDL	365	411	31.2
LA-3	Animas below Maggie Confluence	BDL	BDL	BDL	BDL	BDL	BDL	BDL	304	302	32.6
LA-4	Animas above Howardsville Tails	BDL	BDL	BDL	BDL	BDL	BDL	BDL	256	269	36.3
LA-5	Animas below Cunningham	BDL	BDL	BDL	BDL	BDL	BDL	BDL	254	282	37.9
LA-6	Animas above Arrastra	BDL	BDL	BDL	BDL	BDL	BDL	BDL	255	250	37.9
LA-7	Animas above Boulder	BDL	BDL	BDL	BDL	BDL	BDL	BDL	354	281	37.5
LA-8	Animas below Boulder Creek	BDL	BDL	BDL	BDL	BDL	BDL	BDL	289	293	38.1
LA-9	Animas below Mayflower Tails	BDL	BDL	BDL	BDL	BDL	BDL	BDL	327	340	39
EG-1	Eureka Gulch above Sunnyside	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7	34	22.8
EG-2	Eureka Gulch Headwaters	2.5	BDL	BDL	BDL	BDL	BDL	BDL	3807	3965	40.7
EG-3	Eureka Gulch above Confluence	BDL	BDL	BDL	BDL	BDL	BDL	BDL	127	137	26
EG-4	Eureka Gulch above Confluence	1	BDL	BDL	BDL	BDL	BDL	BDL	1632	1679	31.2
EG-5	Eureka Gulch below Tunnel	13.1	BDL	BDL	BDL	BDL	BDL	BDL	404	442	30.6
EG-6	Eureka Gulch below Terry Tunnel	6.3	BDL	BDL	BDL	BDL	BDL	BDL	365	393	25.2
EG-7	Eureka Gulch above South Fork	1.2	BDL	BDL	BDL	BDL	BDL	BDL	198	252	30.6
EG-8	South Fork above Eureka Gulch	BDL	BDL	BDL	BDL	BDL	BDL	BDL	42	83	53.3
EG-9	Eureka Gulch below South Fork	0.7	BDL	BDL	BDL	BDL	BDL	BDL	117	131	44.7
EG-10	Eureka Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL	BDL	354	366	48.5
EG-11	Duplicate of EG-4	0.7	BDL	BDL	BDL	BDL	BDL	BDL	1584	1701	31.8
MI-1	Minnie Gulch above Esmerelda	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9	28
MI-2	Minnie Gulch below Esmerelda	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	84	28.7
MI-3	Minnie Gulch above Tributary	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	12	32.3
MI-4	Tributary containing Kitti Mack	BDL	BDL	BDL	BDL	BDL	BDL	BDL	6	12	34
MI-5	Minnie Gulch below Tributary	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	68	34.6
MI-6	Minnie Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8	32	38.1
MA-1	Maggie Gulch above Draining Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL	19	50	28.9
MA-2	Maggie Gulch below Upper Mines	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20	42	28.9
MA-6	Maggie Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4	109	34
MA-7	Duplicate of MA-6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	35	33.3
CU-1	Cunningham Gulch below Spencer Creek	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4	15.2
CU-2	Cunningham Gulch above Royal Tiger	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4	16.8
CU-3	Cunningham Gulch below Highland Mary Tails	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4	10	17.7
CU-4	Cunningham Gulch below Dives Creek	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	20.3
CU-5	Cunningham Gulch above Stony Gulch	BDL	BDL	BDL	BDL	BDL	BDL	BDL	39	34	23.3
CU-6	Cunningham Gulch below Stony Gulch	BDL	BDL	BDL	BDL	BDL	BDL	BDL	34	30	26.8
CU-7	Cunningham Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29	25	37.4
CU-8	Duplicate of CU-1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4	15.4
CU-9	Duplicate of CU-6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	33	31	26.9
RG-1	Rocky Gulch below Buffalo Boy	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	29	31.4
RG-2	Rein Gulch above waste piles	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	14	47.2
RG-3	Rein Gulch below waste piles	1.6	BDL	BDL	BDL	BDL	BDL	BDL	13	37	49.1
RG-4	Rocky Gulch below Rein Gulch	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9	38.7
RG-5	Duplicate of RG-4	1	BDL	BDL	BDL	BDL	BDL	BDL	12	18	39.7
SG-1	Stony Gulch headwaters	1.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.37
SG-2	Stony Gulch below draining mines	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	41.3
SG-3	Stony Gulch above Cunningham Gulch	0.9	BDL	BDL	BDL	BDL	BDL	BDL	11	41	40
SG-4	Duplicate of SG-3	1.3	BDL	BDL	BDL	BDL	BDL	BDL	22	49	40
LG-1	Little Giant headwaters (main stream)	1	BDL	BDL	BDL	BDL	BDL	BDL	107	88	17.3
LG-2	Little Giant below lakes (main stream)	1.6	BDL	BDL	BDL	BDL	BDL	BDL	24	29	11.9
LG-3	Little Giant below Big Giant Mine (second stream)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9	24	14
LG-4	Little Giant above Arrastra (main stream)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	28	30	61.6
AB-1	Arrastra above Silver Lake	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10	13	13
AB-2	Arrastra below Silver Lake	3.6	BDL	BDL	BDL	BDL	BDL	BDL	194	189	7.93
AB-4	Arrastra below Woodchuck	BDL	BDL	BDL	BDL	BDL	BDL	BDL	56	56	28.2

Animas River Below Eureka
Low-Flow Data

Site #	Description	Diss. Pb	Tot. Sb	Diss. Sb	Tot. Th	Diss. Th	Tot. Va	Diss. Va	Tot.Zn	Diss. Zn	Diss. Ca
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l
AB-5	Arrastra below Little Giant	2	BDL	BDL	BDL	BDL	BDL	BDL	113	126	30.8
AB-6	Arrastra above Animas	1.8	BDL	BDL	BDL	BDL	BDL	BDL	129	142	31.2
WB-2	Woodchuck before flowing into Unity Tunnel	BDL	BDL	BDL	BDL	BDL	BDL	BDL	28	63	30.5
WB-3	Drainage from lower portal of Unity Tunnel	7.9	BDL	BDL	BDL	BDL	BDL	BDL	118	130	7.18
DB-1	Dives Basin above Cunningham Gulch	BDL	BDL	BDL	BDL	BDL	BDL	BDL	32	47	31
HG-1	Hematite Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL	BDL	11	16	46.4
BG-1	Boulder Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL	BDL	73	82	25.2
BL-1	Blair Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8	50.3
SW-1	Swansea Gulch above Animas	2.8	BDL	BDL	BDL	BDL	BDL	BDL	255	148	18.4
DM-32	Ben Franklin Prospect	1.9	BDL	BDL	BDL	BDL	BDL	BDL	252	256	80.8
DM-33	Bavarian Mine Drainage	430	BDL	BDL	BDL	BDL	BDL	BDL	2082	2298	15.8
DM-34	Midway Mine Drainage	2	BDL	BDL	BDL	BDL	BDL	BDL	11	13	264
DM-35	Moonbeam Mine Drainage	1.7	BDL	BDL	BDL	BDL	BDL	BDL	344	355	90
DM-36	Auburn Tunnel Drainage	2	BDL	BDL	BDL	BDL	BDL	BDL	138	149	152
DM-37	Unknown Draining Mine in Aspens	BDL	BDL	BDL	BDL	BDL	BDL	BDL	43	54	95.9
DM-38	Unknown Draining Mine across from Maggie Gulch	BDL	BDL	BDL	BDL	BDL	BDL	BDL	128	135	97
DM-39	Hamlet Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	83	101	148
DM-40	Esmerelda Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8	40.9
DM-43	Silver Star Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10	15	127
DM-44	Hidden Treasure Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	388	402	48.2
DM-45	Old Hundred Mine Drainage	0.7	BDL	BDL	BDL	BDL	BDL	BDL	78	83	106
DM-46	Smuggler Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	8	15	56.8
DM-47	Emma Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	14	29	131
DM-49	Oyama Tunnel Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	21	21	98.1
DM-50	Unknown Draining mine near top of Stony Pass	BDL	BDL	BDL	BDL	BDL	BDL	BDL	19	21	42.1
DM-51	Pride of the West Mine Drainage	2.8	BDL	BDL	BDL	BDL	BDL	BDL	1236	1199	74.9
DM-52	Green Mountain Mine Drainage	13.1	BDL	BDL	BDL	BDL	BDL	BDL	913	944	47.1
DM-53	Innis Tunnel Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	68	64	60.4
DM-54	Bradley Tunnel Drainage	27	BDL	BDL	BDL	BDL	BDL	BDL	1681	1721	64.8
DM-56	Little Nation Mine Drainage	1.4	BDL	BDL	BDL	BDL	BDL	BDL	448	513	94.6
DM-57	Valley Forge Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	9	7	51.2
DM-58	Ezra Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	70	64	60.3
DM-59	King Solomon Mine Drainage	3.8	BDL	BDL	BDL	BDL	BDL	BDL	179	183	25.5
DM-60	Black Prince Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	34	14	16.1
DM-62	Iowa Mine Drainage	17.6	BDL	BDL	BDL	BDL	BDL	BDL	844	879	6.72
DM-63	Royal Tiger Mine Drainage	2207	BDL	BDL	BDL	BDL	B	BDL	9547	9824	40.6
DM-64	Aspen Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	621	593	152
DM-65	Blair Mountain Tunnel Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4	BDL	180
DM-66	Last Chance Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	17	18	48.6
DM-67	Mighty Monarch Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	508	500	62.8
DM-69	Ransom Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	330	222
DM-71	Queen of Maggie Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	30	59	34.2
DM-72	Unknown Draining mine in Lower Minnie Gulch	BDL	BDL	BDL	BDL	BDL	BDL	BDL	106	142	78.5
DM-73	Little Casino Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	482	455	63.7
DM-74	Midway Tunnel Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	18	35	261
DM-75	Joseph Neff Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	57	79	86
DM-77	Jess Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	46	47	71.4
DM-78	Argentine Tunnel Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	33	34	65.6
DM-79	South Iowa Adit	969	BDL	BDL	BDL	BDL	BDL	0.29	7211	7462	12
ARD-1	Acidic drainage from waste pile in Eureka	1459	BDL	BDL	BDL	BDL	BDL	BDL	7029	7118	30
ARD-2	Acidic drainage from Howardsville Tails	7.6	BDL	BDL	BDL	BDL	BDL	BDL	6000	5956	80.2
A-72	Animas Gage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	256	240	53.1
A-72	Animas Gage 7-8-98	BDL		BDL		BDL		BDL		240	53.1
A-68	Animas above Cement Creek	1.2	BDL	BDL	BDL	BDL	BDL	BDL	320	335	39.3
M-34	Mineral Creek Gage	BDL	BDL	BDL	BDL	BDL	BDL	BDL	161	151	42
C-48	Cement Creek Gage	11.7	BDL	BDL	BDL	BDL	BDL	BDL	601	637	160

Animas River Below Eureka
Low-Flow Data

Site #	Description	Diss. Mg	Diss. K	Diss. Na	Hardness	Flouride	SO4	Cl	Si
		mg/l	mg/l	mg/l	mg/l CaCO3	mg/l	mg/l	mg/l	mg/l
UA-12	Animas above Eureka Confluence	2.14	BDL	0.78	79	0.37	56.7	BDL	4.39
LA-1	Animas below Eureka Confluence	2.23	BDL	0.88	89.6	0.37	65.5	BDL	5.16
LA-2	Animas above Minnie Confluence	2.08	BDL	0.91	86.5	0.38	63.4	BDL	5.49
LA-3	Animas below Maggie Confluence	2.22	BDL	1.24	90.5	0.32	60.8	BDL	5.82
LA-4	Animas above Howardsville Tails	2.39	BDL	1.45	100	0.36	69.4	BDL	7.02
LA-5	Animas below Cunningham	2.42	BDL	1.61	105	0.34	67.6	0.52	6.89
LA-6	Animas above Arrastra	2.48	BDL	1.64	105	0.36	69.9	0.74	7.22
LA-7	Animas above Boulder	2.41	BDL	1.69	104	0.32	66.7	0.67	7.17
LA-8	Animas below Boulder Creek	2.35	BDL	1.62	105	0.33	69.7	0.66	7.04
LA-9	Animas below Mayflower Tails	2.4	BDL	1.65	107	0.34	71.3	0.67	7.26
EG-1	Eureka Gulch above Sunnyside	1.11	BDL	0.84	61.5	BDL	37.7	BDL	4.28
EG-2	Eureka Gulch Headwaters	2.62	BDL	0.59	112	0.52	113	BDL	4.9
EG-3	Eureka Gulch above Confluence	1.54	BDL	0.68	71.3	BDL	43.5	BDL	3.06
EG-4	Eureka Gulch above Confluence	1.88	BDL	0.6	85.6	0.33	73.6	BDL	4.15
EG-5	Eureka Gulch below Tunnel	2.5	BDL	0.74	86.7	BDL	63	BDL	4
EG-6	Eureka Gulch below Terry Tunnel	2.06	BDL	0.66	71.4	BDL	52.6	BDL	4.28
EG-7	Eureka Gulch above South Fork	2.03	BDL	0.87	84.8	BDL	60.1	BDL	5.53
EG-8	South Fork above Eureka Gulch	3.05	BDL	1.11	146	0.32	124	BDL	7.72
EG-9	Eureka Gulch below South Fork	2.66	BDL	1.18	123	0.26	99	BDL	6.54
EG-10	Eureka Gulch above Animas	2.73	BDL	1.25	132	0.39	109	BDL	7.63
EG-11	Duplicate of EG-4	1.92	BDL	0.62	87.3	0.33	73.1	BDL	4.15
MI-1	Minnie Gulch above Esmerelda	3.01	BDL	2.4	82.3	BDL	14.4	BDL	4.15
MI-2	Minnie Gulch below Esmerelda	2.97	BDL	2.36	83.9	BDL	16.4	BDL	4.41
MI-3	Minnie Gulch above Tributary	2.64	BDL	2.14	91.5	BDL	28.9	BDL	3.35
MI-4	Tributary containing Kitti Mack	2.37	BDL	1.82	94.7	BDL	43.4	BDL	4.09
MI-5	Minnie Gulch below Tributary	2.6	BDL	2.1	97.1	BDL	52.2	BDL	3.35
MI-6	Minnie Gulch above Animas	2079	BDL	2.31	107	BDL	51.5	BDL	5.54
MA-1	Maggie Gulch above Draining Mine	3.72	BDL	1.78	87.5	BDL	45.3	BDL	4.9
MA-2	Maggie Gulch below Upper Mines	3.77	BDL	1.79	87.7	BDL	45.4	BDL	5.12
MA-6	Maggie Gulch above Animas	2.98	BDL	1.97	97.2	BDL	36.1	BDL	5.55
MA-7	Duplicate of MA-6	2.96	BDL	1.94	95.3	BDL	36	BDL	5.53
CU-1	Cunningham Gulch below Spencer Creek	1.98	BDL	1.17	46.1	BDL	8.3	BDL	2.84
CU-2	Cunningham Gulch above Royal Tiger	2.04	BDL	1.3	50.4	BDL	8.9	BDL	2.97
CU-3	Cunningham Gulch below Highland Mary Tails	2	BDL	1.29	52.4	BDL	9.2	BDL	3.19
CU-4	Cunningham Gulch below Dives Creek	1.84	BDL	1.3	58.3	BDL	11.6	BDL	3.91
CU-5	Cunningham Gulch above Stony Gulch	1.94	BDL	1.3	66.2	BDL	16.9	BDL	3.96
CU-6	Cunningham Gulch below Stony Gulch	2.15	BDL	1.42	75.8	BDL	24.9	BDL	4.31
CU-7	Cunningham Gulch above Animas	2.22	BDL	1.76	103	BDL	49.8	BDL	6.6
CU-8	Duplicate of CU-1	1.93	BDL	1.19	46.4	BDL	8.1	BDL	3.04
CU-9	Duplicate of CU-6	2.17	BDL	1.44	76.1	BDL	24	BDL	4.35
RG-1	Rocky Gulch below Buffalo Boy	2.16	BDL	1.95	87.3	BDL	40	BDL	3.7
RG-2	Rein Gulch above waste piles	3.89	BDL	1.8	134	0.23	68.1	BDL	4.37
RG-3	Rein Gulch below waste piles	4.25	BDL	2.16	140	BDL	71.4	BDL	4.67
RG-4	Rocky Gulch below Rein Gulch	2.56	BDL	1.64	107	BDL	51.651.1	BDL	4.32
RG-5	Duplicate of RG-4	2.6	BDL	1.67	110	BDL	51.1	BDL	4.62
SG-1	Stony Gulch headwaters	0.31	BDL	0.34	12.2	BDL	BDL	BDL	BDL
SG-2	Stony Gulch below draining mines	3.42	BDL	2.27	117	BDL	55.6	BDL	3.45
SG-3	Stony Gulch above Cunningham Gulch	2.9	BDL	1.94	112	BDL	50.2	BDL	4.12
SG-4	Duplicate of SG-3	2.9	BDL	1.93	112	BDL	50.3	BDL	3.94
LG-1	Little Giant headwaters (main stream)	0.54	BDL	0.34	45.4	BDL	14.3	BDL	BDL
LG-2	Little Giant below lakes (main stream)	0.34	BDL	0.26	31.1	BDL	5.9	BDL	BDL
LG-3	Little Giant below Big Giant Mine (second stream)	0.65	BDL	0.51	37.6	BDL	9.3	BDL	2.8
LG-4	Little Giant above Arrastra (main stream)	2.03	BDL	2.74	162	0.27	103	BDL	6.49
AB-1	Arrastra above Silver Lake	0.56	BDL	0.43	34.8	BDL	9.6	BDL	2.05
AB-2	Arrastra below Silver Lake	0.45	BDL	0.26	21.7	BDL	6.7	BDL	BDL
AB-4	Arrastra below Woodchuck	1.47	BDL	1.56	76.5	BDL	32	BDL	5.19

Animas River Below Eureka
Low-Flow Data

Site #	Description	Diss. Mg	Diss. K	Diss. Na	Hardness	Flouride	SO4	Cl	Si
		mg/l	mg/l	mg/l	mg/l CaCO3	mg/l	mg/l	mg/l	mg/l
AB-5	Arrastra below Little Giant	1.51	BDL	1.68	83.1	BDL	39.2	BDL	5.52
AB-6	Arrastra above Animas	1.49	BDL	1.69	84	BDL	39.8	BDL	5.02
WB-2	Woodchuck before flowing into Unity Tunnel	1.82	BDL	1.77	83.7	BDL	33.3	BDL	4.92
WB-3	Drainage from lower portal of Unity Tunnel	0.35	BDL	0.26		BDL	2.9	BDL	BDL
DB-1	Dives Basin above Cunningham Gulch	1.38	BDL	0.56	83.1	BDL	48.1	BDL	3.67
HG-1	Hematite Gulch above Animas	1.9	BDL	2.13	124	BDL	138	BDL	6.51
BG-1	Boulder Gulch above Animas	1.2	BDL	1.23	67.9	0.24	31.7	BDL	5.04
BL-1	Blair Gulch above Animas	1.18	BDL	1.93	130	0.27	96.2	BDL	9.78
SW-1	Swansea Gulch above Animas	1.25	BDL	1.08	51.1	BDL	21.1	BDL	4.99
DM-32	Ben Franklin Prospect	15.2	BDL	1.24	264	BDL	260	BDL	6.02
DM-33	Bavarian Mine Drainage	1.02	BDL	0.38	43.7	BDL	87.5592	BDL	7.59
DM-34	Midway Mine Drainage	3.18	BDL	7.54	672	1.8	592	BDL	31.9
DM-35	Moonbeam Mine Drainage	3.66	BDL	2.01	240	1.51	156	BDL	13.7
DM-36	Auburn Tunnel Drainage	5.02	BDL	3.51	400	1.31	322	BDL	19
DM-37	Unknown Draining Mine in Aspens	4.48	BDL	2.64	258	0.87	207	BDL	16.9
DM-38	Unknown Draining Mine across from Maggie Gulch	3.52	BDL	3.66	257	0.9	198	BDL	17.6
DM-39	Hamlet Mine Drainage	8.17	BDL	5.28	403	2.29	302	BDL	19.1
DM-40	Esmerelda Mine Drainage	3.24	BDL	3.26	115	BDL	50.5	BDL	5.72
DM-43	Silver Star Mine Drainage	2.63	BDL	5.54	328	0.89	273	BDL	15.8
DM-44	Hidden Treasure Mine Drainage	8	BDL	4.49	153	1.08	140	BDL	24.8
DM-45	Old Hundred Mine Drainage	3.35	BDL	3.92	278	1.02	218	BDL	15.1
DM-46	Smuggler Mine Drainage	5.38	BDL	4.27	164	1.65	92	BDL	19.9
DM-47	Emma Mine Drainage	6.86	BDL	4.37	355	0.64	263	BDL	16.4
DM-49	Oyama Tunnel Mine Drainage	12.4	2.16	11.5	296	0.51	215	BDL	9.58
DM-50	Unknown Draining mine near top of Stony Pass	4.87	BDL	2.57	125	BDL	92.7	BDL	4.34
DM-51	Pride of the West Mine Drainage	5.17	BDL	1.68	208	BDL	47.5	BDL	5.89
DM-52	Green Mountain Mine Drainage	2.43	BDL	2.06	128	BDL	47.7	BDL	5.28
DM-53	Innis Tunnel Drainage	3.32	BDL	3.32	164	BDL	82.8	BDL	5.39
DM-54	Bradley Tunnel Drainage	4.63	BDL	1.07	181	0.28	155	BDL	4.65
DM-56	Little Nation Mine Drainage	6.09	BDL	3.71	261	1.38	241	BDL	19.8
DM-57	Valley Forge Mine Drainage	3.9	BDL	2.9	144	0.45	58.2	4.42	8.55
DM-58	Ezra Mine Drainage	0.84	BDL	2.4	154	0.36	99.8	BDL	8.52
DM-59	King Solomon Mine Drainage	1.24	BDL	0.96	68.8	BDL	25.9	BDL	3.49
DM-60	Black Prince Mine Drainage	0.44	BDL	0.31	42	BDL	6.6	BDL	BDL
DM-62	Iowa Mine Drainage	0.48	BDL	0.18	18.8	BDL	13	BDL	BDL
DM-63	Royal Tiger Mine Drainage	8.21	BDL	0.96	135	0.44	194	BDL	14
DM-64	Aspen Mine Drainage	2.5	BDL	3.38	390	0.6	329	BDL	11.9
DM-65	Blair Mountain Tunnel Drainage	2.88	BDL	5.01	461	1.1	438	BDL	20.2
DM-66	Last Chance Mine Drainage	2.55	BDL	2.99	132	0.42	96.3	BDL	11.9
DM-67	Mighty Monarch Mine Drainage	4.54	BDL	3.5	176	0.9	118	BDL	13.2
DM-69	Ransom Mine Drainage	7.48	BDL	4.93	585	BDL	1030	BDL	17.5
DM-71	Queen of Maggie Mine Drainage	11.2	4.06	2.89	132	0.53	58.1	0.53	8.22
DM-72	Unknown Draining mine in Lower Minnie Gulch	8.89	BDL	5.36	233	1.02	253	BDL	41.4
DM-73	Little Casino Mine Drainage	11.3	BDL	5.7	206	3.4	107	BDL	17.6
DM-74	Midway Tunnel Drainage	6.56	BDL	8.39	679	1.59	753	BDL	26.1
DM-75	Joseph Neff Mine Drainage	8.56	BDL	6.06	250	1.36	251	BDL	31.7
DM-77	Jess Mine Drainage	2.71	BDL	2.46	189	0.55	127	BDL	13.3
DM-78	Argentine Tunnel Drainage	2	BDL	2.77	172	0.31	120	BDL	7.49
DM-79	South Iowa Adit	1.02	BDL	0.29	34.2	0.93	198	BDL	
ARD-1	Acidic drainage from waste pile in Eureka	3.89	BDL	0.88	90.9	BDL		BDL	13.8
ARD-2	Acidic drainage from Howardsville Tails	12	3.43	3.16	250	2.13	270	14.3	16.3
A-72	Animas Gage	3.43	BDL	2.08	147	0.42	135	0.52	11
A-72	Animas Gage 7-8-98	3.43	BDL	2.08	147	0.42	135	0.52	11
A-68	Animas above Cement Creek	2.44	BDL	1.67	108	0.36	73.4	0.81	7.34
M-34	Mineral Creek Gage	3.38	BDL	1.95	119	0.24	105	BDL	10.7
C-48	Cement Creek Gage	7.78	BDL	3.58	432	1.77	466	BDL	36.1

Animas River Below Eureka
Low-Flow Loading Data

Site #	Description	Tot. Ag	Diss. Ag	Tot. Al	Diss. Al	Tot. As	Diss. As
		g/day	g/day	g/day	g/day	g/day	g/day
UA-12	Animas above Eureka Confluence	BDL	BDL	20023.44	4572.66	BDL	BDL
LA-1	Animas below Eureka Confluence	BDL	BDL	20554.29	5696.47	BDL	BDL
LA-2	Animas above Minnie Confluence	BDL	BDL	11099.00	6392.46	BDL	BDL
LA-3	Animas below Maggie Confluence	BDL	BDL	11115.43	5557.72	BDL	BDL
LA-4	Animas above Howardsville Tails	BDL	BDL	9716.56	6172.88	BDL	BDL
LA-5	Animas below Cunningham	BDL	BDL	10650.47	8301.10	BDL	BDL
LA-6	Animas above Arrastra	BDL	BDL	22384.31	11098.11	188.10	BDL
LA-7	Animas above Boulder	BDL	BDL	25908.32	9574.82	BDL	244.06
LA-8	Animas below Boulder Creek	BDL	BDL	21251.68	8761.66	BDL	BDL
LA-9	Animas below Mayflower Tails	BDL	BDL	32601.76	12477.22	301.87	BDL
EG-1	Eureka Gulch above Sunnyside	BDL	BDL	BDL	BDL	BDL	BDL
EG-2	Eureka Gulch Headwaters	BDL	BDL	81.94	83.47	BDL	BDL
EG-3	Eureka Gulch above Confluence	BDL	BDL	BDL	BDL	BDL	BDL
EG-4	Eureka Gulch above Confluence	BDL	BDL	7.81	BDL	0.19	BDL
EG-5	Eureka Gulch below Tunnel	BDL	BDL	68.66	64.56	BDL	BDL
EG-6	Eureka Gulch below Terry Tunnel	BDL	BDL	186.58	154.04	BDL	3.25
EG-7	Eureka Gulch above South Fork	BDL	BDL	BDL	225.20	BDL	BDL
EG-8	South Fork above Eureka Gulch	BDL	BDL	1769.01	321.64	BDL	7.72
EG-9	Eureka Gulch below South Fork	BDL	BDL	2032.80	BDL	BDL	BDL
EG-10	Eureka Gulch above Animas	BDL	BDL	2040.63	1208.78	BDL	BDL
EG-11	Duplicate of EG-4	BDL	BDL	BDL	BDL	BDL	0.28
MI-1	Minnie Gulch above Esmerelda	1.05	BDL	418.35	BDL	6.28	BDL
MI-2	Minnie Gulch below Esmerelda	BDL	BDL	471.94	BDL	BDL	BDL
MI-3	Minnie Gulch above Tributary	BDL	BDL	BDL	BDL	BDL	BDL
MI-4	Tributary containing Kitti Mack	BDL	BDL	BDL	BDL	1.27	BDL
MI-5	Minnie Gulch below Tributary	BDL	BDL	678.32	BDL	10.77	BDL
MI-6	Minnie Gulch above Animas	BDL	BDL	1844.53	504.09	BDL	BDL
MA-1	Maggie Gulch above Draining Mine	BDL	BDL	843.92	464.04	2.96	5.00
MA-2	Maggie Gulch below Upper Mines	BDL	BDL	1160.94	655.92	BDL	BDL
MA-6	Maggie Gulch above Animas	BDL	BDL	3714.37	BDL	18.57	17.33
MA-7	Duplicate of MA-6	BDL	BDL	1832.42	BDL	16.10	18.57
CU-1	Cunningham Gulch below Spencer Creek	BDL	BDL	1346.71	BDL	BDL	BDL
CU-2	Cunningham Gulch above Royal Tiger	BDL	BDL	1576.75	BDL	17.33	BDL
CU-3	Cunningham Gulch below Highland Mary Tails	BDL	BDL	1543.24	BDL	20.93	BDL
CU-4	Cunningham Gulch below Dives Creek	BDL	BDL	1075.13	BDL	27.37	BDL
CU-5	Cunningham Gulch above Stony Gulch	BDL	BDL	2133.57	BDL	BDL	BDL
CU-6	Cunningham Gulch below Stony Gulch	BDL	BDL	4828.13	BDL	BDL	BDL
CU-7	Cunningham Gulch above Animas	BDL	BDL	4497.32	BDL	BDL	BDL
CU-8	Duplicate of CU-1	BDL	BDL	712.97	BDL	BDL	BDL
CU-9	Duplicate of CU-6	BDL	BDL	1726.00	BDL	BDL	BDL
RG-1	Rocky Gulch below Buffalo Boy	BDL	BDL	29.17	BDL	BDL	BDL
RG-2	Rein Gulch above waste piles	BDL	BDL	10.00	BDL	BDL	BDL
RG-3	Rein Gulch below waste piles	BDL	BDL	BDL	BDL	BDL	BDL
RG-4	Rocky Gulch below Rein Gulch	BDL	BDL	59.68	BDL	1.57	BDL
RG-5	Duplicate of RG-4	BDL	BDL	63.59	BDL	BDL	BDL
SG-1	Stony Gulch headwaters	BDL	BDL	47.73	BDL	0.58	BDL
SG-2	Stony Gulch below draining mines	BDL	BDL	147.40	BDL	2.54	1.58
SG-3	Stony Gulch above Cunningham Gulch	BDL	BDL	422.20	BDL	6.22	4.89
SG-4	Duplicate of SG-3	BDL	BDL	386.65	BDL	5.78	BDL
LG-1	Little Giant headwaters (main stream)	BDL	BDL	59.60	BDL	BDL	BDL
LG-2	Little Giant below lakes (main stream)	0.26	BDL	BDL	BDL	BDL	1.85
LG-3	Little Giant below Big Giant Mine (second stream)	BDL	BDL	188.43	BDL	0.38	BDL
LG-4	Little Giant above Arrastra (main stream)	BDL	BDL	BDL	BDL	BDL	0.94
AB-1	Arrastra above Silver Lake	BDL	BDL	BDL	BDL	1.55	BDL
AB-2	Arrastra below Silver Lake	BDL	BDL	BDL	BDL	1.60	BDL

Animas River Below Eureka
Low-Flow Loading Data

Site #	Description	Tot. Ag	Diss. Ag	Tot. Al	Diss. Al	Tot. As	Diss. As
		g/day	g/day	g/day	g/day	g/day	g/day
AB-4	Arrastra below Woodchuck	BDL	BDL	883.61	BDL	BDL	BDL
AB-5	Arrastra below Little Giant	BDL	BDL	BDL	BDL	BDL	BDL
AB-6	Arrastra above Animas	BDL	BDL	1471.17	BDL	BDL	BDL
WB-2	Woodchuck before flowing into Unity Tunnel	BDL	BDL	BDL	BDL	0.49	BDL
WB-3	Drainage from lower portal of Unity Tunnel	BDL	BDL	BDL	BDL	BDL	BDL
DB-1	Dives Basin above Cunningham Gulch	BDL	BDL	BDL	BDL	BDL	BDL
HG-1	Hematite Gulch above Animas	BDL	BDL	131.30	BDL	BDL	BDL
BG-1	Boulder Gulch above Animas	BDL	BDL	121.61	BDL	BDL	BDL
BL-1	Blair Gulch above Animas	BDL	BDL	46.47	BDL	0.64	BDL
SW-1	Swansea Gulch above Animas	BDL	BDL	721.06	BDL	BDL	BDL
DM-32	Ben Franklin Prospect	BDL	BDL	12.48	BDL	0.07	BDL
DM-33	Bavarian Mine Drainage	0.00	0.00	0.29	0.32	BDL	BDL
DM-34	Midway Mine Drainage	BDL	BDL	BDL	BDL	BDL	0.03
DM-35	Moonbeam Mine Drainage	BDL	BDL	BDL	BDL	0.23	BDL
DM-36	Auburn Tunnel Drainage	BDL	BDL	46.36	BDL	0.89	0.59
DM-37	Unknown Draining Mine in Aspens	BDL	BDL	BDL	BDL	BDL	BDL
DM-38	Unknown Draining Mine across from Maggie Gulch	BDL	BDL	BDL	BDL	BDL	BDL
DM-39	Hamlet Mine Drainage	BDL	BDL	BDL	BDL	2.27	BDL
DM-40	Esmerelda Mine Drainage	BDL	BDL	3.94	BDL	BDL	BDL
DM-43	Silver Star Mine Drainage	BDL	BDL	BDL	BDL	0.48	0.25
DM-44	Hidden Treasure Mine Drainage	BDL	BDL	1.06	BDL	BDL	BDL
DM-45	Old Hundred Mine Drainage	BDL	BDL	BDL	BDL	4.77	3.64
DM-46	Smuggler Mine Drainage	BDL	BDL	BDL	BDL	0.08	0.07
DM-47	Emma Mine Drainage	BDL	BDL	BDL	BDL	0.18	BDL
DM-49	Oyama Tunnel Mine Drainage	BDL	BDL	7.22	BDL	0.44	0.32
DM-50	Unknown Draining mine near top of Stony Pass	BDL	BDL	0.50	BDL	0.02	BDL
DM-51	Pride of the West Mine Drainage	BDL	BDL	46.64	BDL	BDL	BDL
DM-52	Green Mountain Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL
DM-53	Innis Tunnel Drainage	BDL	BDL	8.82	BDL	0.26	BDL
DM-54	Bradley Tunnel Drainage	BDL	BDL	3.02	BDL	0.01	BDL
DM-56	Little Nation Mine Drainage	BDL	BDL	27.81	24.13	BDL	BDL
DM-57	Valley Forge Mine Drainage	BDL	BDL	16.56	BDL	BDL	BDL
DM-58	Ezra Mine Drainage	BDL	BDL	BDL	BDL	0.03	0.03
DM-59	King Solomon Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL
DM-60	Black Prince Mine Drainage	BDL	BDL	79.23	BDL	BDL	BDL
DM-62	Iowa Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL
DM-63	Royal Tiger Mine Drainage	BDL	BDL	98.48	98.16	BDL	BDL
DM-64	Aspen Mine Drainage	BDL	BDL	BDL	BDL	1.54	BDL
DM-65	Blair Mountain Tunnel Drainage	BDL	BDL	BDL	BDL	0.79	0.47
DM-66	Last Chance Mine Drainage	BDL	BDL	BDL	BDL	0.75	BDL
DM-67	Mighty Monarch Mine Drainage	BDL	BDL	BDL	BDL	0.41	BDL
DM-69	Ransom Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL
DM-71	Queen of Maggie Mine Drainage	BDL	BDL	BDL	BDL	0.08	BDL
DM-72	Unknown Draining mine in Lower Minnie Gulch	BDL	BDL	4.10	4.13	BDL	BDL
DM-73	Little Casino Mine Drainage	BDL	BDL	0.56	BDL	0.01	BDL
DM-74	Midway Tunnel Drainage	BDL	BDL	BDL	2.47	BDL	BDL
DM-75	Joseph Neff Mine Drainage	BDL	BDL	47.22	46.11	0.03	BDL
DM-77	Jess Mine Drainage	BDL	BDL	0.97	BDL	BDL	0.03
DM-78	Argentine Tunnel Drainage	BDL	BDL	BDL	BDL	0.12	0.14
DM-79	South Iowa Adit	BDL	BDL	2.18	1.93	BDL	BDL
ARD-1	Acidic drainage from waste pile in Eureka	0.04	0.04	78.72	78.28	BDL	BDL
ARD-2	Acidic drainage from Howardsville Tails	BDL	BDL	622.73	562.32	1.30	1.39
A-72	Animas Gage	BDL	BDL	541776.17	BDL	1130.75	BDL
A-72	Animas Gage 7-8-98	0.00	BDL	0.00	BDL	0.00	BDL
A-68	Animas above Cement Creek	BDL	BDL	32481.82	BDL	203.01	BDL
M-34	Mineral Creek Gage	BDL	BDL	306933.61	11623.01	990.11	BDL
C-48	Cement Creek Gage	BDL	BDL	195636.91	204576.75	224.54	BDL

Animas River Below Eureka
Low-Flow Loading Data

Site #	Description	Tot. Ba	Diss. Ba	Tot. Be	Diss. Be	Tot. Cd	Diss. Cd	Tot. Cr
		g/day	g/day	g/day	g/day	g/day	g/day	g/day
UA-12	Animas above Eureka Confluence	577.60	BDL	BDL	BDL	110.71	86.64	BDL
LA-1	Animas below Eureka Confluence	704.72	704.72	BDL	BDL	105.71	82.22	BDL
LA-2	Animas above Minnie Confluence	842.96	842.96	BDL	BDL	84.30	77.27	BDL
LA-3	Animas below Maggie Confluence	1528.37	1389.43	BDL	BDL	83.37	48.63	BDL
LA-4	Animas above Howardsville Tails	2514.88	2400.56	BDL	BDL	68.59	BDL	BDL
LA-5	Animas below Cunningham	4072.24	4072.24	BDL	BDL	93.97	BDL	BDL
LA-6	Animas above Arrastra	5078.79	4702.59	BDL	BDL	131.67	BDL	BDL
LA-7	Animas above Boulder	5069.02	4693.54	BDL	BDL	131.42	131.42	BDL
LA-8	Animas below Boulder Creek	4846.87	4474.04	BDL	BDL	130.49	111.85	BDL
LA-9	Animas below Mayflower Tails	5232.38	4829.89	BDL	BDL	161.00	120.75	BDL
EG-1	Eureka Gulch above Sunnyside	3.65	3.65	BDL	BDL	BDL	BDL	BDL
EG-2	Eureka Gulch Headwaters	4.89	4.89	BDL	BDL	3.30	3.06	BDL
EG-3	Eureka Gulch above Confluence	13.89	13.02	BDL	BDL	BDL	BDL	BDL
EG-4	Eureka Gulch above Confluence	3.13	2.95	BDL	BDL	0.50	0.57	BDL
EG-5	Eureka Gulch below Tunnel	18.45	18.45	BDL	BDL	1.13	1.02	BDL
EG-6	Eureka Gulch below Terry Tunnel	30.37	30.37	BDL	BDL	2.17	1.95	BDL
EG-7	Eureka Gulch above South Fork	51.18	47.77	BDL	BDL	2.05	BDL	BDL
EG-8	South Fork above Eureka Gulch	77.19	77.19	BDL	BDL	BDL	BDL	BDL
EG-9	Eureka Gulch below South Fork	147.63	147.63	BDL	BDL	BDL	BDL	BDL
EG-10	Eureka Gulch above Animas	168.97	181.97	BDL	BDL	13.00	11.70	BDL
EG-11	Duplicate of EG-4	2.95	2.95	BDL	BDL	0.45	0.49	BDL
MI-1	Minnie Gulch above Esmerelda	554.31	538.63	BDL	BDL	BDL	BDL	BDL
MI-2	Minnie Gulch below Esmerelda	555.22	533.01	BDL	BDL	BDL	BDL	BDL
MI-3	Minnie Gulch above Tributary	535.89	528.45	BDL	BDL	BDL	BDL	BDL
MI-4	Tributary containing Kitti Mack	38.10	36.94	BDL	BDL	BDL	BDL	6.93
MI-5	Minnie Gulch below Tributary	710.62	689.08	BDL	BDL	BDL	BDL	BDL
MI-6	Minnie Gulch above Animas	572.83	561.38	BDL	BDL	BDL	BDL	BDL
MA-1	Maggie Gulch above Draining Mine	81.89	79.61	BDL	BDL	BDL	BDL	BDL
MA-2	Maggie Gulch below Upper Mines	110.86	107.78	BDL	BDL	BDL	BDL	BDL
MA-6	Maggie Gulch above Animas	606.68	581.92	BDL	BDL	BDL	BDL	BDL
MA-7	Duplicate of MA-6	606.68	569.54	BDL	BDL	BDL	BDL	BDL
CU-1	Cunningham Gulch below Spencer Creek	792.18	739.37	BDL	BDL	BDL	BDL	BDL
CU-2	Cunningham Gulch above Royal Tiger	1091.59	1022.29	BDL	BDL	BDL	BDL	BDL
CU-3	Cunningham Gulch below Highland Mary Tails	823.94	784.70	BDL	BDL	BDL	BDL	BDL
CU-4	Cunningham Gulch below Dives Creek	1153.32	1094.68	BDL	BDL	BDL	BDL	BDL
CU-5	Cunningham Gulch above Stony Gulch	1197.41	1132.10	BDL	BDL	BDL	BDL	BDL
CU-6	Cunningham Gulch below Stony Gulch	1212.86	1142.89	BDL	BDL	BDL	BDL	BDL
CU-7	Cunningham Gulch above Animas	1847.11	1766.81	BDL	BDL	BDL	BDL	BDL
CU-8	Duplicate of CU-1	686.56	739.37	BDL	BDL	BDL	BDL	BDL
CU-9	Duplicate of CU-6	1166.21	1119.57	BDL	BDL	BDL	BDL	BDL
RG-1	Rocky Gulch below Buffalo Boy	19.28	18.23	BDL	BDL	BDL	BDL	BDL
RG-2	Rein Gulch above waste piles	6.23	5.90	BDL	BDL	BDL	BDL	BDL
RG-3	Rein Gulch below waste piles	7.70	7.52	BDL	BDL	BDL	BDL	BDL
RG-4	Rocky Gulch below Rein Gulch	48.92	45.98	BDL	BDL	BDL	BDL	BDL
RG-5	Duplicate of RG-4	48.92	47.94	BDL	BDL	BDL	BDL	BDL
SG-1	Stony Gulch headwaters	2.91	2.91	BDL	BDL	BDL	BDL	BDL
SG-2	Stony Gulch below draining mines	63.40	58.64	BDL	BDL	BDL	BDL	BDL
SG-3	Stony Gulch above Cunningham Gulch	151.10	142.22	BDL	BDL	BDL	BDL	BDL
SG-4	Duplicate of SG-3	151.10	142.22	BDL	BDL	BDL	BDL	BDL
LG-1	Little Giant headwaters (main stream)	23.23	21.21	BDL	BDL	1.11	BDL	BDL
LG-2	Little Giant below lakes (main stream)	14.50	13.18	BDL	BDL	BDL	BDL	BDL
LG-3	Little Giant below Big Giant Mine (second stream)	7.34	4.99	BDL	BDL	BDL	BDL	1.76
LG-4	Little Giant above Arrastra (main stream)	5.89	5.89	BDL	BDL	BDL	BDL	BDL
AB-1	Arrastra above Silver Lake	32.76	29.12	BDL	BDL	BDL	BDL	BDL
AB-2	Arrastra below Silver Lake	20.60	18.32	BDL	BDL	1.03	1.14	BDL

Animas River Below Eureka
Low-Flow Loading Data

Site #	Description	Tot. Ba	Diss. Ba	Tot. Be	Diss. Be	Tot. Cd	Diss. Cd	Tot. Cr
		g/day	g/day	g/day	g/day	g/day	g/day	g/day
AB-4	Arrastra below Woodchuck	245.45	229.08	BDL	BDL	BDL	BDL	BDL
AB-5	Arrastra below Little Giant	255.79	243.61	BDL	BDL	10.96	9.74	BDL
AB-6	Arrastra above Animas	417.95	367.79	BDL	BDL	13.37	15.05	BDL
WB-2	Woodchuck before flowing into Unity Tunnel	3.26	2.99	BDL	BDL	BDL	BDL	BDL
WB-3	Drainage from lower portal of Unity Tunnel	0.81	0.75	BDL	BDL	0.03	0.05	BDL
DB-1	Dives Basin above Cunningham Gulch	16.96	15.97	BDL	BDL	BDL	BDL	BDL
HG-1	Hematite Gulch above Animas	11.94	5.97	BDL	BDL	BDL	BDL	BDL
BG-1	Boulder Gulch above Animas	27.36	27.36	BDL	BDL	BDL	BDL	BDL
BL-1	Blair Gulch above Animas	6.85	6.36	BDL	BDL	BDL	BDL	BDL
SW-1	Swansea Gulch above Animas	114.71	98.33	BDL	BDL	2.87	4.51	BDL
DM-32	Ben Franklin Prospect	1.56	1.45	BDL	BDL	0.04	0.04	BDL
DM-33	Bavarian Mine Drainage	0.02	0.01	BDL	BDL	0.01	0.01	BDL
DM-34	Midway Mine Drainage	0.07	0.05	BDL	BDL	BDL	BDL	BDL
DM-35	Moonbeam Mine Drainage	1.80	1.47	BDL	BDL	0.11	0.11	BDL
DM-36	Auburn Tunnel Drainage	5.35	4.75	BDL	BDL	0.36	BDL	BDL
DM-37	Unknown Draining Mine in Aspens	2.79	2.56	BDL	BDL	BDL	BDL	BDL
DM-38	Unknown Draining Mine across from Maggie Gulch	0.50	0.50	BDL	BDL	0.07	BDL	BDL
DM-39	Hamlet Mine Drainage	8.91	8.10	BDL	BDL	BDL	BDL	BDL
DM-40	Esmerelda Mine Drainage	3.85	3.42	BDL	BDL	BDL	BDL	BDL
DM-43	Silver Star Mine Drainage	1.01	1.01	BDL	BDL	BDL	BDL	BDL
DM-44	Hidden Treasure Mine Drainage	0.23	0.22	BDL	BDL	0.02	0.02	BDL
DM-45	Old Hundred Mine Drainage	28.03	25.23	BDL	BDL	1.68	1.96	BDL
DM-46	Smuggler Mine Drainage	0.68	0.62	BDL	BDL	BDL	BDL	BDL
DM-47	Emma Mine Drainage	1.94	1.67	BDL	BDL	BDL	BDL	BDL
DM-49	Oyama Tunnel Mine Drainage	2.47	2.11	BDL	BDL	BDL	BDL	BDL
DM-50	Unknown Draining mine near top of Stony Pass	0.10	0.08	BDL	BDL	BDL	BDL	BDL
DM-51	Pride of the West Mine Drainage	3.89	3.33	BDL	BDL	3.16	3.50	BDL
DM-52	Green Mountain Mine Drainage	0.23	0.23	BDL	BDL	0.10	0.11	BDL
DM-53	Innis Tunnel Drainage	1.43	1.17	BDL	BDL	BDL	BDL	BDL
DM-54	Bradley Tunnel Drainage	0.10	0.09	0.01	BDL	0.09	0.09	BDL
DM-56	Little Nation Mine Drainage	3.35	3.69	0.34	0.34	0.30	0.34	BDL
DM-57	Valley Forge Mine Drainage	1.90	1.63	BDL	BDL	BDL	BDL	BDL
DM-58	Ezra Mine Drainage	0.62	0.54	BDL	BDL	BDL	BDL	BDL
DM-59	King Solomon Mine Drainage	0.01	0.01	BDL	BDL	0.00	0.00	BDL
DM-60	Black Prince Mine Drainage	1.64	0.90	BDL	BDL	BDL	BDL	BDL
DM-62	Iowa Mine Drainage	0.04	0.04	BDL	BDL	0.01	0.01	BDL
DM-63	Royal Tiger Mine Drainage	0.10	0.10	0.03	0.03	0.64	0.65	BDL
DM-64	Aspen Mine Drainage	18.54	16.48	BDL	BDL	2.68	3.71	BDL
DM-65	Blair Mountain Tunnel Drainage	2.35	2.05	BDL	BDL	BDL	BDL	BDL
DM-66	Last Chance Mine Drainage	23.71	21.68	BDL	BDL	BDL	BDL	BDL
DM-67	Mighty Monarch Mine Drainage	2.97	2.82	BDL	BDL	0.30	0.25	BDL
DM-69	Ransom Mine Drainage	BDL	0.45	BDL	BDL	BDL	BDL	BDL
DM-71	Queen of Maggie Mine Drainage	0.34	0.33	BDL	BDL	BDL	0.01	BDL
DM-72	Unknown Draining mine in Lower Minnie Gulch	0.02	0.02	0.00	0.00	BDL	BDL	BDL
DM-73	Little Casino Mine Drainage	0.14	0.13	0.01	BDL	0.01	0.01	BDL
DM-74	Midway Tunnel Drainage	0.62	0.62	BDL	BDL	BDL	BDL	BDL
DM-75	Joseph Neff Mine Drainage	0.25	0.22	0.03	0.03	BDL	BDL	BDL
DM-77	Jess Mine Drainage	0.16	0.15	BDL	BDL	BDL	BDL	BDL
DM-78	Argentine Tunnel Drainage	1.00	0.90	BDL	BDL	BDL	BDL	BDL
DM-79	South Iowa Adit	0.14	0.14	BDL	BDL	0.23	0.14	BDL
ARD-1	Acidic drainage from waste pile in Eureka	0.43	0.39	0.02	0.02	0.34	0.31	BDL
ARD-2	Acidic drainage from Howardsville Tails	25.10	23.24	0.93	BDL	7.16	7.16	BDL
A-72	Animas Gage	10815.86	10324.23	BDL	BDL	442.47	393.30	BDL
A-72	Animas Gage 7-8-98	0.00	40834.63	0.00	BDL	0.00	1555.61	0.00
A-68	Animas above Cement Creek	5075.28	4872.27	BDL	BDL	182.71	182.71	BDL
M-34	Mineral Creek Gage	4950.54	4735.30	BDL	BDL	BDL	BDL	BDL
C-48	Cement Creek Gage	582.13	540.55	41.58	41.58	54.05	58.21	BDL

Animas River Below Eureka
Low-Flow Loading Data

Site #	Description	Tot. Co	Diss. Co	Diss. Cr	Tot. Cu	Diss. Cu	Tot. Fe	Diss. Fe
		g/day	g/day	g/day	g/day	g/day	g/day	g/day
UA-12	Animas above Eureka Confluence	BDL	BDL	BDL	722.00	385.07	4283.86	BDL
LA-1	Animas below Eureka Confluence	469.81	BDL	BDL	2231.61	352.36	5226.66	BDL
LA-2	Animas above Minnie Confluence	BDL	BDL	BDL	702.47	421.48	2247.90	491.73
LA-3	Animas below Maggie Confluence	BDL	BDL	BDL	625.24	486.30	6182.96	903.13
LA-4	Animas above Howardsville Tails	BDL	BDL	BDL	571.56	BDL	5029.75	800.19
LA-5	Animas below Cunningham	BDL	BDL	BDL	783.12	BDL	13626.33	5795.11
LA-6	Animas above Arrastra	BDL	1316.72	BDL	1128.62	BDL	21443.80	4514.48
LA-7	Animas above Boulder	BDL	BDL	BDL	1689.67	BDL	27973.48	3754.83
LA-8	Animas below Boulder Creek	BDL	BDL	BDL	1118.51	BDL	21438.10	2982.69
LA-9	Animas below Mayflower Tails	BDL	BDL	BDL	1207.47	1408.72	30589.30	3823.66
EG-1	Eureka Gulch above Sunnyside	BDL	BDL	BDL	BDL	BDL	2.23	BDL
EG-2	Eureka Gulch Headwaters	BDL	BDL	BDL	12.54	11.31	8.87	3.67
EG-3	Eureka Gulch above Confluence	BDL	BDL	BDL	BDL	BDL	26.05	9.55
EG-4	Eureka Gulch above Confluence	BDL	BDL	BDL	2.08	BDL	18.23	6.25
EG-5	Eureka Gulch below Tunnel	BDL	BDL	BDL	22.55	16.40	134.25	62.52
EG-6	Eureka Gulch below Terry Tunnel	BDL	BDL	BDL	34.71	26.03	80.27	15.19
EG-7	Eureka Gulch above South Fork	BDL	27.30	BDL	30.71	20.47	44.36	BDL
EG-8	South Fork above Eureka Gulch	BDL	BDL	BDL	57.89	BDL	2154.98	759.07
EG-9	Eureka Gulch below South Fork	BDL	BDL	BDL	113.56	102.21	2237.21	942.58
EG-10	Eureka Gulch above Animas	BDL	BDL	BDL	194.96	90.98	1429.74	77.99
EG-11	Duplicate of EG-4	BDL	BDL	BDL	2.26	BDL	12.33	7.47
MI-1	Minnie Gulch above Esmerelda	BDL	BDL	BDL	26.15	BDL	418.35	31.38
MI-2	Minnie Gulch below Esmerelda	BDL	BDL	BDL	BDL	BDL	433.07	33.31
MI-3	Minnie Gulch above Tributary	BDL	BDL	BDL	BDL	BDL	163.74	BDL
MI-4	Tributary containing Kitti Mack	BDL	BDL	BDL	5.77	BDL	BDL	BDL
MI-5	Minnie Gulch below Tributary	BDL	BDL	BDL	BDL	BDL	323.01	BDL
MI-6	Minnie Gulch above Animas	BDL	BDL	BDL	BDL	BDL	2130.94	698.86
MA-1	Maggie Gulch above Draining Mine	BDL	18.20	BDL	11.37	BDL	584.60	163.78
MA-2	Maggie Gulch below Upper Mines	BDL	BDL	BDL	BDL	BDL	763.69	230.96
MA-6	Maggie Gulch above Animas	BDL	BDL	BDL	BDL	BDL	2055.29	99.05
MA-7	Duplicate of MA-6	BDL	BDL	BDL	61.91	BDL	1337.17	99.05
CU-1	Cunningham Gulch below Spencer Creek	BDL	BDL	BDL	BDL	BDL	1029.84	184.84
CU-2	Cunningham Gulch above Royal Tiger	155.94	BDL	BDL	BDL	BDL	1264.86	242.58
CU-3	Cunningham Gulch below Highland Mary Tails	BDL	BDL	BDL	BDL	BDL	1255.52	117.71
CU-4	Cunningham Gulch below Dives Creek	BDL	BDL	BDL	BDL	BDL	1622.47	BDL
CU-5	Cunningham Gulch above Stony Gulch	BDL	BDL	BDL	BDL	BDL	1959.40	BDL
CU-6	Cunningham Gulch below Stony Gulch	BDL	BDL	BDL	139.95	BDL	2519.02	BDL
CU-7	Cunningham Gulch above Animas	321.24	BDL	BDL	240.93	BDL	3895.00	240.93
CU-8	Duplicate of CU-1	BDL	BDL	BDL	BDL	BDL	1729.60	184.84
CU-9	Duplicate of CU-6	BDL	BDL	BDL	BDL	BDL	1889.27	BDL
RG-1	Rocky Gulch below Buffalo Boy	BDL	BDL	BDL	BDL	BDL	18.76	BDL
RG-2	Rein Gulch above waste piles	BDL	BDL	BDL	BDL	BDL	4.75	BDL
RG-3	Rein Gulch below waste piles	BDL	BDL	BDL	1.10	BDL	4.77	BDL
RG-4	Rocky Gulch below Rein Gulch	BDL	BDL	BDL	BDL	BDL	35.22	BDL
RG-5	Duplicate of RG-4	BDL	BDL	BDL	BDL	BDL	41.09	BDL
SG-1	Stony Gulch headwaters	BDL	BDL	BDL	BDL	BDL	28.52	12.22
SG-2	Stony Gulch below draining mines	BDL	BDL	BDL	BDL	BDL	202.87	19.02
SG-3	Stony Gulch above Cunningham Gulch	BDL	BDL	BDL	26.67	BDL	364.43	BDL
SG-4	Duplicate of SG-3	BDL	BDL	BDL	26.67	BDL	315.54	BDL
LG-1	Little Giant headwaters (main stream)	BDL	BDL	BDL	BDL	BDL	31.32	BDL
LG-2	Little Giant below lakes (main stream)	BDL	BDL	BDL	13.18	7.91	29.00	BDL
LG-3	Little Giant below Big Giant Mine (second stream)	BDL	BDL	BDL	2.35	BDL	126.50	BDL
LG-4	Little Giant above Arrastra (main stream)	BDL	BDL	BDL	BDL	BDL	5.31	BDL
AB-1	Arrastra above Silver Lake	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AB-2	Arrastra below Silver Lake	BDL	BDL	BDL	18.32	10.30	32.05	6.87

Animas River Below Eureka
Low-Flow Loading Data

Site #	Description	Tot. Co	Diss. Co	Diss. Cr	Tot. Cu	Diss. Cu	Tot. Fe	Diss. Fe
		g/day	g/day	g/day	g/day	g/day	g/day	g/day
AB-4	Arrastra below Woodchuck	BDL	BDL	BDL	98.18	BDL	769.07	BDL
AB-5	Arrastra below Little Giant	BDL	BDL	BDL	109.63	85.26	109.63	BDL
AB-6	Arrastra above Animas	BDL	BDL	BDL	167.18	83.59	1738.66	BDL
WB-2	Woodchuck before flowing into Unity Tunnel	BDL	BDL	BDL	BDL	BDL	1.63	BDL
WB-3	Drainage from lower portal of Unity Tunnel	BDL	BDL	BDL	0.32	BDL	0.54	BDL
DB-1	Dives Basin above Cunningham Gulch	BDL	BDL	BDL	BDL	BDL	7.48	BDL
HG-1	Hematite Gulch above Animas	BDL	BDL	BDL	BDL	BDL	56.70	BDL
BG-1	Boulder Gulch above Animas	BDL	BDL	BDL	18.24	15.20	30.40	BDL
BL-1	Blair Gulch above Animas	BDL	BDL	BDL	BDL	BDL	85.61	6.36
SW-1	Swansea Gulch above Animas	BDL	BDL	BDL	20.48	BDL	962.78	81.94
DM-32	Ben Franklin Prospect	BDL	BDL	BDL	1.56	BDL	11.52	3.44
DM-33	Bavarian Mine Drainage	BDL	BDL	BDL	1.07	1.21	5.70	7.05
DM-34	Midway Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-35	Moonbeam Mine Drainage	BDL	BDL	BDL	BDL	BDL	43.26	11.64
DM-36	Auburn Tunnel Drainage	BDL	BDL	BDL	BDL	BDL	303.72	98.07
DM-37	Unknown Draining Mine in Aspens	BDL	BDL	BDL	BDL	BDL	1168.32	1091.87
DM-38	Unknown Draining Mine across from Maggie Gulch	BDL	BDL	BDL	0.50	BDL	84.41	36.51
DM-39	Hamlet Mine Drainage	BDL	BDL	BDL	BDL	BDL	514.91	170.83
DM-40	Esmerelda Mine Drainage	BDL	BDL	BDL	BDL	BDL	3.25	BDL
DM-43	Silver Star Mine Drainage	BDL	BDL	BDL	BDL	BDL	2.52	3.78
DM-44	Hidden Treasure Mine Drainage	0.23	0.37	BDL	BDL	BDL	86.21	62.56
DM-45	Old Hundred Mine Drainage	BDL	BDL	BDL	BDL	BDL	25.23	BDL
DM-46	Smuggler Mine Drainage	BDL	BDL	BDL	BDL	BDL	118.25	99.85
DM-47	Emma Mine Drainage	BDL	BDL	BDL	BDL	BDL	14.62	0.62
DM-49	Oyama Tunnel Mine Drainage	BDL	1.23	BDL	0.88	BDL	144.23	36.81
DM-50	Unknown Draining mine near top of Stony Pass	BDL	0.04	BDL	0.03	BDL	21.33	9.43
DM-51	Pride of the West Mine Drainage	BDL	BDL	BDL	16.10	7.22	70.51	BDL
DM-52	Green Mountain Mine Drainage	BDL	BDL	BDL	0.16	0.14	BDL	0.10
DM-53	Innis Tunnel Drainage	BDL	BDL	BDL	0.91	BDL	9.07	BDL
DM-54	Bradley Tunnel Drainage	BDL	0.10	BDL	3.32	0.95	0.37	BDL
DM-56	Little Nation Mine Drainage	BDL	5.70	BDL	2.68	BDL	2028.64	1841.66
DM-57	Valley Forge Mine Drainage	BDL	BDL	BDL	BDL	BDL	26.34	BDL
DM-58	Ezra Mine Drainage	BDL	BDL	BDL	0.19	BDL	0.35	BDL
DM-59	King Solomon Mine Drainage	BDL	0.02	BDL	0.06	0.06	0.10	0.03
DM-60	Black Prince Mine Drainage	BDL	BDL	BDL	0.75	BDL	66.99	BDL
DM-62	Iowa Mine Drainage	BDL	BDL	BDL	0.06	0.05	0.06	BDL
DM-63	Royal Tiger Mine Drainage	0.79	0.87	BDL	23.80	23.87	37.80	5.87
DM-64	Aspen Mine Drainage	BDL	BDL	BDL	8.24	5.15	13.39	BDL
DM-65	Blair Mountain Tunnel Drainage	BDL	1.61	BDL	0.73	1.17	126.80	90.55
DM-66	Last Chance Mine Drainage	BDL	BDL	BDL	BDL	BDL	214.10	167.35
DM-67	Mighty Monarch Mine Drainage	BDL	BDL	BDL	0.94	BDL	58.39	7.36
DM-69	Ransom Mine Drainage	BDL	BDL	BDL	0.90	BDL	1.19	2.09
DM-71	Queen of Maggie Mine Drainage	BDL	BDL	BDL	BDL	BDL	41.78	20.77
DM-72	Unknown Draining mine in Lower Minnie Gulch	0.04	0.05	BDL	BDL	BDL	9.17	8.53
DM-73	Little Casino Mine Drainage	BDL	0.09	BDL	0.08	BDL	0.68	0.05
DM-74	Midway Tunnel Drainage	BDL	BDL	0.22	BDL	BDL	0.57	BDL
DM-75	Joseph Neff Mine Drainage	0.38	0.45	BDL	0.32	BDL	14.31	12.02
DM-77	Jess Mine Drainage	BDL	BDL	BDL	BDL	BDL	4.33	0.87
DM-78	Argentine Tunnel Drainage	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-79	South Iowa Adit	BDL	BDL	BDL	1.95	1.97	2.00	0.28
ARD-1	Acidic drainage from waste pile in Eureka	0.24	0.26	BDL	23.64	23.25	39.52	37.96
ARD-2	Acidic drainage from Howardsville Tails	16.73	17.66	BDL	15.80	BDL	5184.47	4200.18
A-72	Animas Gage	BDL	BDL	BDL	8849.34	BDL	661733.87	144047.57
A-72	Animas Gage 7-8-98	0.00	BDL	BDL	0.00	BDL	0.00	569740.38
A-68	Animas above Cement Creek	BDL	BDL	BDL	1421.08	BDL	27000.51	3045.17
M-34	Mineral Creek Gage	1506.69	BDL	BDL	6241.99	1291.45	390231.86	119243.49
C-48	Cement Creek Gage	706.87	498.97	BDL	1580.06	1621.64	190564.07	123120.28

Animas River Below Eureka
Low-Flow Loading Data

Site #	Description	Tot. Mn	Diss. Mn	Tot. Ni	Diss. Ni	Tot. Pb	Diss. Pb	Tot. Sb
		g/day	g/day	g/day	g/day	g/day	g/day	g/day
UA-12	Animas above Eureka Confluence	36051.81	BDL	BDL	BDL	173.28	BDL	BDL
LA-1	Animas below Eureka Confluence	37467.53	36351.73	645.99	BDL	270.14	BDL	BDL
LA-2	Animas above Minnie Confluence	30135.89	30487.12	BDL	BDL	126.44	BDL	BDL
LA-3	Animas below Maggie Confluence	23828.71	22925.58	BDL	BDL	125.05	BDL	BDL
LA-4	Animas above Howardsville Tails	17832.75	17261.19	BDL	BDL	194.33	BDL	BDL
LA-5	Animas below Cunningham	41662.11	40722.37	BDL	BDL	313.25	BDL	BDL
LA-6	Animas above Arrastra	48530.70	45144.83	BDL	BDL	545.50	BDL	BDL
LA-7	Animas above Boulder	49188.27	46372.15	BDL	BDL	1295.42	BDL	BDL
LA-8	Animas below Boulder Creek	77177.15	72330.28	BDL	BDL	876.17	BDL	BDL
LA-9	Animas below Mayflower Tails	130407.02	124772.15	BDL	BDL	1167.22	BDL	BDL
EG-1	Eureka Gulch above Sunnyside	0.20	0.20	BDL	BDL	BDL	BDL	BDL
EG-2	Eureka Gulch Headwaters	386.76	376.67	4.89	BDL	1.28	0.76	BDL
EG-3	Eureka Gulch above Confluence	9.55	8.68	BDL	BDL	0.87	BDL	BDL
EG-4	Eureka Gulch above Confluence	37.16	33.34	BDL	BDL	0.30	0.17	BDL
EG-5	Eureka Gulch below Tunnel	161.92	155.78	BDL	BDL	21.73	13.43	BDL
EG-6	Eureka Gulch below Terry Tunnel	577.10	555.40	BDL	BDL	21.26	13.67	BDL
EG-7	Eureka Gulch above South Fork	348.03	327.56	BDL	BDL	11.94	4.09	BDL
EG-8	South Fork above Eureka Gulch	611.11	604.68	BDL	BDL	BDL	BDL	BDL
EG-9	Eureka Gulch below South Fork	1101.57	1124.28	124.92	BDL	14.76	7.95	BDL
EG-10	Eureka Gulch above Animas	1988.64	1936.65	BDL	BDL	15.60	BDL	BDL
EG-11	Duplicate of EG-4	34.04	33.86	BDL	BDL	0.19	0.12	BDL
MI-1	Minnie Gulch above Esmerelda	15.69	BDL	BDL	BDL	BDL	BDL	BDL
MI-2	Minnie Gulch below Esmerelda	22.21	5.55	BDL	BDL	BDL	BDL	BDL
MI-3	Minnie Gulch above Tributary	7.44	BDL	BDL	BDL	BDL	BDL	BDL
MI-4	Tributary containing Kitti Mack	1.15	BDL	BDL	BDL	BDL	BDL	BDL
MI-5	Minnie Gulch below Tributary	10.77	10.77	BDL	BDL	BDL	BDL	BDL
MI-6	Minnie Gulch above Animas	297.87	240.59	BDL	BDL	10.31	BDL	BDL
MA-1	Maggie Gulch above Draining Mine	454.94	439.02	BDL	BDL	BDL	BDL	BDL
MA-2	Maggie Gulch below Upper Mines	563.53	541.98	BDL	BDL	BDL	BDL	BDL
MA-6	Maggie Gulch above Animas	99.05	24.76	BDL	BDL	8.67	BDL	BDL
MA-7	Duplicate of MA-6	111.43	12.38	BDL	BDL	BDL	BDL	BDL
CU-1	Cunningham Gulch below Spencer Creek	92.42	13.20	BDL	BDL	BDL	BDL	BDL
CU-2	Cunningham Gulch above Royal Tiger	121.29	17.33	BDL	BDL	13.86	BDL	BDL
CU-3	Cunningham Gulch below Highland Mary Tails	130.78	39.24	BDL	BDL	31.39	BDL	BDL
CU-4	Cunningham Gulch below Dives Creek	175.93	39.10	BDL	BDL	74.28	BDL	BDL
CU-5	Cunningham Gulch above Stony Gulch	217.71	108.86	BDL	BDL	80.55	BDL	BDL
CU-6	Cunningham Gulch below Stony Gulch	349.86	93.30	BDL	BDL	149.28	BDL	BDL
CU-7	Cunningham Gulch above Animas	602.32	361.39	BDL	BDL	196.76	BDL	BDL
CU-8	Duplicate of CU-1	79.22	13.20	BDL	BDL	BDL	BDL	BDL
CU-9	Duplicate of CU-6	256.57	93.30	BDL	BDL	93.30	BDL	BDL
RG-1	Rocky Gulch below Buffalo Boy	1.56	BDL	BDL	BDL	12.76	BDL	BDL
RG-2	Rein Gulch above waste piles	0.33	BDL	BDL	BDL	BDL	BDL	BDL
RG-3	Rein Gulch below waste piles	0.55	0.18	BDL	BDL	0.99	0.29	BDL
RG-4	Rocky Gulch below Rein Gulch	2.94	BDL	BDL	BDL	5.09	BDL	BDL
RG-5	Duplicate of RG-4	3.91	BDL	BDL	BDL	0.68	0.98	BDL
SG-1	Stony Gulch headwaters	1.75	1.16	BDL	BDL	BDL	0.70	BDL
SG-2	Stony Gulch below draining mines	17.43	4.75	BDL	BDL	1.27	BDL	BDL
SG-3	Stony Gulch above Cunningham Gulch	40.00	8.89	BDL	BDL	22.67	4.00	BDL
SG-4	Duplicate of SG-3	40.00	8.89	BDL	BDL	21.33	5.78	BDL
LG-1	Little Giant headwaters (main stream)	3.03	BDL	BDL	BDL	3.13	1.01	BDL
LG-2	Little Giant below lakes (main stream)	5.27	3.96	BDL	BDL	5.54	2.11	BDL
LG-3	Little Giant below Big Giant Mine (second stream)	7.92	4.99	BDL	BDL	3.73	BDL	BDL
LG-4	Little Giant above Arrastra (main stream)	1.18	BDL	BDL	BDL	0.71	BDL	BDL
AB-1	Arrastra above Silver Lake	0.91	BDL	BDL	BDL	BDL	BDL	BDL
AB-2	Arrastra below Silver Lake	49.22	42.35	BDL	BDL	8.36	4.12	BDL

Animas River Below Eureka
Low-Flow Loading Data

Site #	Description	Tot. Mn	Diss. Mn	Tot. Ni	Diss. Ni	Tot. Pb	Diss. Pb	Tot. Sb
		g/day	g/day	g/day	g/day	g/day	g/day	g/day
AB-4	Arrastra below Woodchuck	114.54	BDL	BDL	BDL	101.45	BDL	BDL
AB-5	Arrastra below Little Giant	48.72	12.18	BDL	BDL	40.20	24.36	BDL
AB-6	Arrastra above Animas	217.33	33.44	BDL	BDL	172.19	30.09	BDL
WB-2	Woodchuck before flowing into Unity Tunnel	0.27	BDL	BDL	BDL	BDL	BDL	BDL
WB-3	Drainage from lower portal of Unity Tunnel	0.11	0.05	BDL	BDL	0.50	0.43	BDL
DB-1	Dives Basin above Cunningham Gulch	2.00	0.50	BDL	BDL	0.95	BDL	BDL
HG-1	Hematite Gulch above Animas	8.95	BDL	BDL	BDL	BDL	BDL	BDL
BG-1	Boulder Gulch above Animas	744.87	738.79	BDL	BDL	1.82	BDL	BDL
BL-1	Blair Gulch above Animas	25.93	14.19	BDL	BDL	0.39	BDL	BDL
SW-1	Swansea Gulch above Animas	151.59	90.13	BDL	BDL	42.20	11.47	BDL
DM-32	Ben Franklin Prospect	5.00	4.74	0.59	BDL	0.30	0.10	BDL
DM-33	Bavarian Mine Drainage	8.93	9.92	0.03	BDL	1.03	1.05	BDL
DM-34	Midway Mine Drainage	0.02	0.03	BDL	BDL	BDL	0.03	BDL
DM-35	Moonbeam Mine Drainage	81.94	66.04	BDL	BDL	0.54	0.28	BDL
DM-36	Aubum Tunnel Drainage	175.93	162.85	BDL	BDL	0.36	1.19	BDL
DM-37	Unknown Draining Mine in Aspens	143.14	133.84	BDL	BDL	BDL	BDL	BDL
DM-38	Unknown Draining Mine across from Maggie Gulch	26.20	24.62	BDL	BDL	0.51	BDL	BDL
DM-39	Hamlet Mine Drainage	464.71	444.47	BDL	BDL	BDL	BDL	BDL
DM-40	Esmerelda Mine Drainage	1.54	1.20	BDL	BDL	BDL	BDL	BDL
DM-43	Silver Star Mine Drainage	7.31	6.80	BDL	BDL	BDL	BDL	BDL
DM-44	Hidden Treasure Mine Drainage	29.10	28.35	0.23	BDL	BDL	BDL	BDL
DM-45	Old Hundred Mine Drainage	5.61	BDL	BDL	BDL	4.48	1.96	BDL
DM-46	Smuggler Mine Drainage	36.29	35.44	BDL	BDL	BDL	BDL	BDL
DM-47	Emma Mine Drainage	28.97	0.88	BDL	BDL	0.06	BDL	BDL
DM-49	Oyama Tunnel Mine Drainage	163.43	153.21	BDL	BDL	BDL	BDL	BDL
DM-50	Unknown Draining mine near top of Stony Pass	0.16	0.17	BDL	BDL	BDL	BDL	BDL
DM-51	Pride of the West Mine Drainage	130.48	127.15	BDL	BDL	6.22	1.55	BDL
DM-52	Green Mountain Mine Drainage	0.08	0.08	0.22	BDL	0.23	0.26	BDL
DM-53	Innis Tunnel Drainage	0.78	0.26	1.56	BDL	0.29	BDL	BDL
DM-54	Bradley Tunnel Drainage	15.44	15.56	0.15	0.08	0.43	0.20	BDL
DM-56	Little Nation Mine Drainage	432.60	426.91	4.69	BDL	0.57	0.47	BDL
DM-57	Valley Forge Mine Drainage	1.09	BDL	BDL	BDL	0.24	BDL	BDL
DM-58	Ezra Mine Drainage	0.38	0.30	BDL	BDL	0.16	BDL	BDL
DM-59	King Solomon Mine Drainage	0.01	0.01	BDL	BDL	0.02	0.01	BDL
DM-60	Black Prince Mine Drainage	12.38	BDL	BDL	BDL	0.42	BDL	BDL
DM-62	Iowa Mine Drainage	0.04	0.03	BDL	BDL	0.05	0.04	BDL
DM-63	Royal Tiger Mine Drainage	114.88	110.60	0.26	0.27	37.80	37.79	BDL
DM-64	Aspen Mine Drainage	2.06	2.06	BDL	BDL	0.72	BDL	BDL
DM-65	Blair Mountain Tunnel Drainage	59.29	53.13	BDL	BDL	BDL	BDL	BDL
DM-66	Last Chance Mine Drainage	305.56	278.46	BDL	BDL	BDL	BDL	BDL
DM-67	Mighty Monarch Mine Drainage	140.57	132.59	BDL	BDL	0.22	BDL	BDL
DM-69	Ransom Mine Drainage	0.15	11.64	BDL	BDL	BDL	BDL	BDL
DM-71	Queen of Maggie Mine Drainage	35.94	0.34	BDL	BDL	BDL	BDL	BDL
DM-72	Unknown Draining mine in Lower Minnie Gulch	3.14	3.03	BDL	BDL	BDL	BDL	BDL
DM-73	Little Casino Mine Drainage	0.70	0.46	BDL	BDL	0.01	BDL	BDL
DM-74	Midway Tunnel Drainage	1.06	0.53	BDL	BDL	BDL	BDL	BDL
DM-75	Joseph Neff Mine Drainage	13.70	12.88	BDL	BDL	0.07	BDL	BDL
DM-77	Jess Mine Drainage	3.08	2.94	BDL	BDL	0.03	BDL	BDL
DM-78	Argentine Tunnel Drainage	0.30	0.20	BDL	BDL	0.13	BDL	BDL
DM-79	South Iowa Adit	0.68	0.66	BDL	BDL	4.85	4.74	BDL
ARD-1	Acidic drainage from waste pile in Eureka	266.24	252.20	BDL	BDL	26.01	24.98	BDL
ARD-2	Acidic drainage from Howardsville Tails	18207.92	17046.11	BDL	BDL	26.49	7.06	BDL
A-72	Animas Gage	285145.35	280229.05	BDL	BDL	2949.78	BDL	BDL
A-72	Animas Gage 7-8-98	0.00	1108368.65	0.00	BDL	0.00	BDL	0.00
A-68	Animas above Cement Creek	138047.72	138453.75	BDL	BDL	954.15	243.61	BDL
M-34	Mineral Creek Gage	46276.81	45846.32	BDL	BDL	947.06	BDL	BDL
C-48	Cement Creek Gage	59626.64	60790.90	BDL	BDL	623.71	486.49	BDL

Animas River Below Eureka
Low-Flow Loading Data

Site #	Description	Diss. Sb	Tot. Th	Diss. Th	Tot. Va	Diss. Va	Tot.Zn	Diss. Zn
		g/day	g/day	g/day	g/day	g/day	g/day	g/day
UA-12	Animas above Eureka Confluence	BDL	BDL	BDL	BDL	BDL	21082.37	20119.70
LA-1	Animas below Eureka Confluence	BDL	BDL	BDL	BDL	BDL	26603.12	25193.69
LA-2	Animas above Minnie Confluence	BDL	BDL	BDL	BDL	BDL	25640.09	28871.44
LA-3	Animas below Maggie Confluence	BDL	BDL	BDL	BDL	BDL	21119.33	20980.38
LA-4	Animas above Howardsville Tails	BDL	BDL	BDL	BDL	BDL	29264.00	30750.07
LA-5	Animas below Cunningham	BDL	BDL	BDL	BDL	BDL	39782.62	44168.11
LA-6	Animas above Arrastra	BDL	BDL	BDL	BDL	BDL	47966.39	47025.87
LA-7	Animas above Boulder	BDL	BDL	BDL	BDL	BDL	66460.48	52755.36
LA-8	Animas below Boulder Creek	BDL	BDL	BDL	BDL	BDL	53874.87	54620.54
LA-9	Animas below Mayflower Tails	BDL	BDL	BDL	BDL	BDL	65807.25	68423.44
EG-1	Eureka Gulch above Sunnyside	BDL	BDL	BDL	BDL	BDL	1.42	6.90
EG-2	Eureka Gulch Headwaters	BDL	BDL	BDL	BDL	BDL	1163.95	1212.26
EG-3	Eureka Gulch above Confluence	BDL	BDL	BDL	BDL	BDL	110.27	118.96
EG-4	Eureka Gulch above Confluence	BDL	BDL	BDL	BDL	BDL	283.41	291.58
EG-5	Eureka Gulch below Tunnel	BDL	BDL	BDL	BDL	BDL	414.04	452.98
EG-6	Eureka Gulch below Terry Tunnel	BDL	BDL	BDL	BDL	BDL	791.88	852.63
EG-7	Eureka Gulch above South Fork	BDL	BDL	BDL	BDL	BDL	675.59	859.84
EG-8	South Fork above Eureka Gulch	BDL	BDL	BDL	BDL	BDL	270.18	533.92
EG-9	Eureka Gulch below South Fork	BDL	BDL	BDL	BDL	BDL	1328.70	1487.69
EG-10	Eureka Gulch above Animas	BDL	BDL	BDL	BDL	BDL	4601.16	4757.13
EG-11	Duplicate of EG-4	BDL	BDL	BDL	BDL	BDL	275.08	295.40
MI-1	Minnie Gulch above Esmerelda	BDL	BDL	BDL	BDL	BDL	BDL	47.06
MI-2	Minnie Gulch below Esmerelda	BDL	BDL	BDL	BDL	BDL	BDL	466.39
MI-3	Minnie Gulch above Tributary	BDL	BDL	BDL	BDL	BDL	BDL	89.32
MI-4	Tributary containing Kitti Mack	BDL	BDL	BDL	BDL	BDL	6.93	13.85
MI-5	Minnie Gulch below Tributary	BDL	BDL	BDL	BDL	BDL	BDL	732.15
MI-6	Minnie Gulch above Animas	BDL	BDL	BDL	BDL	BDL	91.65	366.61
MA-1	Maggie Gulch above Draining Mine	BDL	BDL	BDL	BDL	BDL	43.22	113.74
MA-2	Maggie Gulch below Upper Mines	BDL	BDL	BDL	BDL	BDL	61.59	129.34
MA-6	Maggie Gulch above Animas	BDL	BDL	BDL	BDL	BDL	49.52	1349.56
MA-7	Duplicate of MA-6	BDL	BDL	BDL	BDL	BDL	BDL	433.34
CU-1	Cunningham Gulch below Spencer Creek	BDL	BDL	BDL	BDL	BDL	BDL	52.81
CU-2	Cunningham Gulch above Royal Tiger	BDL	BDL	BDL	BDL	BDL	BDL	69.31
CU-3	Cunningham Gulch below Highland Mary Tails	BDL	BDL	BDL	BDL	BDL	52.31	130.78
CU-4	Cunningham Gulch below Dives Creek	BDL	BDL	BDL	BDL	BDL	BDL	97.74
CU-5	Cunningham Gulch above Stony Gulch	BDL	BDL	BDL	BDL	BDL	849.07	740.22
CU-6	Cunningham Gulch below Stony Gulch	BDL	BDL	BDL	BDL	BDL	793.03	699.73
CU-7	Cunningham Gulch above Animas	BDL	BDL	BDL	BDL	BDL	1164.49	1003.87
CU-8	Duplicate of CU-1	BDL	BDL	BDL	BDL	BDL	BDL	52.81
CU-9	Duplicate of CU-6	BDL	BDL	BDL	BDL	BDL	769.70	723.05
RG-1	Rocky Gulch below Buffalo Boy	BDL	BDL	BDL	BDL	BDL	BDL	15.11
RG-2	Rein Gulch above waste piles	BDL	BDL	BDL	BDL	BDL	0.82	2.29
RG-3	Rein Gulch below waste piles	BDL	BDL	BDL	BDL	BDL	2.38	6.79
RG-4	Rocky Gulch below Rein Gulch	BDL	BDL	BDL	BDL	BDL	BDL	8.81
RG-5	Duplicate of RG-4	BDL	BDL	BDL	BDL	BDL	11.74	17.61
SG-1	Stony Gulch headwaters	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SG-2	Stony Gulch below draining mines	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SG-3	Stony Gulch above Cunningham Gulch	BDL	BDL	BDL	BDL	BDL	48.89	182.21
SG-4	Duplicate of SG-3	BDL	BDL	BDL	BDL	BDL	97.77	217.77
LG-1	Little Giant headwaters (main stream)	BDL	BDL	BDL	BDL	BDL	108.09	88.89
LG-2	Little Giant below lakes (main stream)	BDL	BDL	BDL	BDL	BDL	31.64	38.23
LG-3	Little Giant below Big Giant Mine (second stream)	BDL	BDL	BDL	BDL	BDL	2.64	7.04
LG-4	Little Giant above Arrastra (main stream)	BDL	BDL	BDL	BDL	BDL	16.51	17.68
AB-1	Arrastra above Silver Lake	BDL	BDL	BDL	BDL	BDL	9.10	11.83
AB-2	Arrastra below Silver Lake	BDL	BDL	BDL	BDL	BDL	222.07	216.35

Animas River Below Eureka
Low-Flow Loading Data

Site #	Description	Diss. Sb	Tot. Th	Diss. Th	Tot. Va	Diss. Va	Tot.Zn	Diss. Zn
		g/day	g/day	g/day	g/day	g/day	g/day	g/day
AB-4	Arrastra below Woodchuck	BDL	BDL	BDL	BDL	BDL	916.34	916.34
AB-5	Arrastra below Little Giant	BDL	BDL	BDL	BDL	BDL	1376.42	1534.77
AB-6	Arrastra above Animas	BDL	BDL	BDL	BDL	BDL	2156.60	2373.94
WB-2	Woodchuck before flowing into Unity Tunnel	BDL	BDL	BDL	BDL	BDL	7.60	17.10
WB-3	Drainage from lower portal of Unity Tunnel	BDL	BDL	BDL	BDL	BDL	6.35	7.00
DB-1	Dives Basin above Cunningham Gulch	BDL	BDL	BDL	BDL	BDL	15.97	23.45
HG-1	Hematite Gulch above Animas	BDL	BDL	BDL	BDL	BDL	32.82	47.74
BG-1	Boulder Gulch above Animas	BDL	BDL	BDL	BDL	BDL	221.94	249.30
BL-1	Blair Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL	3.91
SW-1	Swansea Gulch above Animas	BDL	BDL	BDL	BDL	BDL	1044.71	606.34
DM-32	Ben Franklin Prospect	BDL	BDL	BDL	BDL	BDL	13.56	13.78
DM-33	Bavarian Mine Drainage	BDL	BDL	BDL	BDL	BDL	5.09	5.62
DM-34	Midway Mine Drainage	BDL	BDL	BDL	BDL	BDL	0.19	0.22
DM-35	Moonbeam Mine Drainage	BDL	BDL	BDL	BDL	BDL	56.37	58.18
DM-36	Auburn Tunnel Drainage	BDL	BDL	BDL	BDL	BDL	82.02	88.56
DM-37	Unknown Draining Mine in Aspens	BDL	BDL	BDL	BDL	BDL	9.99	12.55
DM-38	Unknown Draining Mine across from Maggie Gulch	BDL	BDL	BDL	BDL	BDL	10.64	11.23
DM-39	Hamlet Mine Drainage	BDL	BDL	BDL	BDL	BDL	67.20	81.77
DM-40	Esmerelda Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	0.68
DM-43	Silver Star Mine Drainage	BDL	BDL	BDL	BDL	BDL	2.52	3.78
DM-44	Hidden Treasure Mine Drainage	BDL	BDL	BDL	BDL	BDL	7.59	7.87
DM-45	Old Hundred Mine Drainage	BDL	BDL	BDL	BDL	BDL	218.64	232.65
DM-46	Smuggler Mine Drainage	BDL	BDL	BDL	BDL	BDL	0.45	0.84
DM-47	Emma Mine Drainage	BDL	BDL	BDL	BDL	BDL	1.23	2.55
DM-49	Oyama Tunnel Mine Drainage	BDL	BDL	BDL	BDL	BDL	3.70	3.70
DM-50	Unknown Draining mine near top of Stony Pass	BDL	BDL	BDL	BDL	BDL	0.09	0.10
DM-51	Pride of the West Mine Drainage	BDL	BDL	BDL	BDL	BDL	686.26	665.71
DM-52	Green Mountain Mine Drainage	BDL	BDL	BDL	BDL	BDL	17.86	18.47
DM-53	Innis Tunnel Drainage	BDL	BDL	BDL	BDL	BDL	8.82	8.30
DM-54	Bradley Tunnel Drainage	BDL	BDL	BDL	BDL	BDL	12.33	12.63
DM-56	Little Nation Mine Drainage	BDL	BDL	BDL	BDL	BDL	150.12	171.90
DM-57	Valley Forge Mine Drainage	BDL	BDL	BDL	BDL	BDL	2.44	1.90
DM-58	Ezra Mine Drainage	BDL	BDL	BDL	BDL	BDL	1.88	1.72
DM-59	King Solomon Mine Drainage	BDL	BDL	BDL	BDL	BDL	0.44	0.45
DM-60	Black Prince Mine Drainage	BDL	BDL	BDL	BDL	BDL	5.07	2.09
DM-62	Iowa Mine Drainage	BDL	BDL	BDL	BDL	BDL	2.06	2.15
DM-63	Royal Tiger Mine Drainage	BDL	BDL	BDL	BDL	BDL	163.46	168.20
DM-64	Aspen Mine Drainage	BDL	BDL	BDL	BDL	BDL	639.46	610.63
DM-65	Blair Mountain Tunnel Drainage	BDL	BDL	BDL	BDL	BDL	0.59	BDL
DM-66	Last Chance Mine Drainage	BDL	BDL	BDL	BDL	BDL	11.52	12.20
DM-67	Mighty Monarch Mine Drainage	BDL	BDL	BDL	BDL	BDL	79.52	78.27
DM-69	Ransom Mine Drainage	BDL	BDL	BDL	BDL	BDL	BDL	49.24
DM-71	Queen of Maggie Mine Drainage	BDL	BDL	BDL	BDL	BDL	0.51	1.01
DM-72	Unknown Draining mine in Lower Minnie Gulch	BDL	BDL	BDL	BDL	BDL	0.26	0.35
DM-73	Little Casino Mine Drainage	BDL	BDL	BDL	BDL	BDL	4.72	4.45
DM-74	Midway Tunnel Drainage	BDL	BDL	BDL	BDL	BDL	0.79	1.54
DM-75	Joseph Neff Mine Drainage	BDL	BDL	BDL	BDL	BDL	1.81	2.51
DM-77	Jess Mine Drainage	BDL	BDL	BDL	BDL	BDL	0.68	0.69
DM-78	Argentine Tunnel Drainage	BDL	BDL	BDL	BDL	BDL	3.31	3.41
DM-79	South Iowa Adit	BDL	BDL	BDL	BDL	0.00	35.28	36.50
ARD-1	Acidic drainage from waste pile in Eureka	BDL	BDL	BDL	BDL	BDL	120.35	121.87
ARD-2	Acidic drainage from Howardsville Tails	BDL	BDL	BDL	BDL	BDL	5576.70	5535.80
A-72	Animas Gage	BDL	BDL	#VALUE!	BDL	BDL	125857.26	117991.18
A-72	Animas Gage 7-8-98	BDL	0.00	BDL	0.00	BDL	0.00	466681.54
A-68	Animas above Cement Creek	BDL	BDL	BDL	BDL	BDL	64963.64	68008.81
M-34	Mineral Creek Gage	BDL	BDL	BDL	BDL	BDL	34653.79	32501.38
C-48	Cement Creek Gage	BDL	BDL	BDL	BDL	BDL	24989.96	26486.87

Animas River Below Eureka
Low-Flow Loading Data

Site #	Description	Diss. Ca	Diss. Mg	Diss. K	Diss. Na	Hardness	Flouride
		g/day	g/day	kg/day	kg/day	kg/day	kg/day
UA-12	Animas above Eureka Confluence	1352.54	103.01	BDL	BDL	3802.53	17.81
LA-1	Animas below Eureka Confluence	1890.99	130.96	BDL	51.68	5261.90	21.73
LA-2	Animas above Minnie Confluence	2191.70	146.11	BDL	63.92	6076.35	26.69
LA-3	Animas below Maggie Confluence	2264.77	154.23	BDL	86.14	6287.17	22.23
LA-4	Animas above Howardsville Tails	4149.54	273.21	BDL	165.75	11431.25	41.15
LA-5	Animas below Cunningham	5936.07	379.03	BDL	252.17	16445.57	53.25
LA-6	Animas above Arrastra	7129.12	466.50	BDL	308.49	19750.87	67.72
LA-7	Animas above Boulder	7040.31	452.46	BDL	317.28	19525.11	60.08
LA-8	Animas below Boulder Creek	7102.53	438.08	BDL	302.00	19573.92	61.52
LA-9	Animas below Mayflower Tails	7848.57	482.99	BDL	332.05	21533.26	68.42
EG-1	Eureka Gulch above Sunnyside	4.63	0.23	BDL	0.17	12.49	BDL
EG-2	Eureka Gulch Headwaters	12.44	0.80	BDL	0.18	34.24	0.16
EG-3	Eureka Gulch above Confluence	22.58	1.34	BDL	0.59	61.91	BDL
EG-4	Eureka Gulch above Confluence	5.42	0.33	BDL	0.10	14.87	0.06
EG-5	Eureka Gulch below Tunnel	31.36	2.56	BDL	0.76	88.85	BDL
EG-6	Eureka Gulch below Terry Tunnel	54.67	4.47	BDL	1.43	154.90	BDL
EG-7	Eureka Gulch above South Fork	104.41	6.93	BDL	2.97	289.34	BDL
EG-8	South Fork above Eureka Gulch	342.87	19.62	BDL	7.14	939.18	2.06
EG-9	Eureka Gulch below South Fork	507.63	30.21	BDL	13.40	1396.84	2.95
EG-10	Eureka Gulch above Animas	630.38	35.48	BDL	16.25	1715.69	5.07
EG-11	Duplicate of EG-4	5.52	0.33	BDL	0.11	15.16	0.06
MI-1	Minnie Gulch above Esmerelda	146.42	15.74	BDL	12.55	430.38	BDL
MI-2	Minnie Gulch below Esmerelda	159.35	16.49	BDL	13.10	465.83	BDL
MI-3	Minnie Gulch above Tributary	240.41	19.65	BDL	15.93	681.03	BDL
MI-4	Tributary containing Kitti Mack	39.25	2.74	BDL	2.10	109.33	BDL
MI-5	Minnie Gulch below Tributary	372.54	27.99	BDL	22.61	1045.47	BDL
MI-6	Minnie Gulch above Animas	436.50	23818.46	BDL	26.46	1225.87	BDL
MA-1	Maggie Gulch above Draining Mine	65.74	8.46	BDL	4.05	199.04	BDL
MA-2	Maggie Gulch below Upper Mines	89.00	11.61	BDL	5.51	270.06	BDL
MA-6	Maggie Gulch above Animas	420.96	36.90	BDL	24.39	1203.46	BDL
MA-7	Duplicate of MA-6	412.30	36.65	BDL	24.02	1179.93	BDL
CU-1	Cunningham Gulch below Spencer Creek	200.69	26.14	BDL	15.45	608.66	BDL
CU-2	Cunningham Gulch above Royal Tiger	291.09	35.35	BDL	22.52	873.28	BDL
CU-3	Cunningham Gulch below Highland Mary Tails	231.49	26.16	BDL	16.87	685.30	BDL
CU-4	Cunningham Gulch below Dives Creek	396.82	35.97	BDL	25.41	1139.64	BDL
CU-5	Cunningham Gulch above Stony Gulch	507.27	42.24	BDL	28.30	1441.25	BDL
CU-6	Cunningham Gulch below Stony Gulch	625.09	50.15	BDL	33.12	1767.98	BDL
CU-7	Cunningham Gulch above Animas	1501.78	89.14	BDL	70.67	4135.93	BDL
CU-8	Duplicate of CU-1	203.33	25.48	BDL	15.71	612.62	BDL
CU-9	Duplicate of CU-6	627.42	50.61	BDL	33.59	1774.98	BDL
RG-1	Rocky Gulch below Buffalo Boy	16.36	1.13	BDL	1.02	45.48	BDL
RG-2	Rein Gulch above waste piles	7.73	0.64	BDL	0.29	21.96	0.04
RG-3	Rein Gulch below waste piles	9.01	0.78	BDL	0.40	25.68	BDL
RG-4	Rocky Gulch below Rein Gulch	37.86	2.50	BDL	1.60	104.69	BDL
RG-5	Duplicate of RG-4	38.84	2.54	BDL	1.63	107.62	BDL
SG-1	Stony Gulch headwaters	2.54	0.18	BDL	0.20	7.10	BDL
SG-2	Stony Gulch below draining mines	65.46	5.42	BDL	3.60	185.44	BDL
SG-3	Stony Gulch above Cunningham Gulch	177.77	12.89	BDL	8.62	497.75	BDL
SG-4	Duplicate of SG-3	177.77	12.89	BDL	8.58	497.75	BDL
LG-1	Little Giant headwaters (main stream)	17.48	0.55	BDL	0.34	45.86	BDL
LG-2	Little Giant below lakes (main stream)	15.69	0.45	BDL	0.34	41.00	BDL
LG-3	Little Giant below Big Giant Mine (second stream)	4.11	0.19	BDL	0.15	11.04	BDL
LG-4	Little Giant above Arrastra (main stream)	36.31	1.20	BDL	1.62	95.49	0.16
AB-1	Arrastra above Silver Lake	11.83	0.51	BDL	0.39	31.66	BDL
AB-2	Arrastra below Silver Lake	9.08	0.52	BDL	0.30	24.84	BDL

Animas River Below Eureka
Low-Flow Loading Data

Site #	Description	Diss. Ca	Diss. Mg	Diss. K	Diss. Na	Hardness	Flouride
		g/day	g/day	kg/day	kg/day	kg/day	kg/day
AB-4	Arrastra below Woodchuck	461.44	24.05	BDL	25.53	1251.79	BDL
AB-5	Arrastra below Little Giant	375.16	18.39	BDL	20.46	1012.21	BDL
AB-6	Arrastra above Animas	521.60	24.91	BDL	28.25	1404.30	BDL
WB-2	Woodchuck before flowing into Unity Tunnel	8.28	0.49	BDL	0.48	22.72	BDL
WB-3	Drainage from lower portal of Unity Tunnel	0.39	0.02	BDL	0.01	0.00	BDL
DB-1	Dives Basin above Cunningham Gulch	15.47	0.69	BDL	0.28	41.46	BDL
HG-1	Hematite Gulch above Animas	138.46	5.67	BDL	6.36	370.02	BDL
BG-1	Boulder Gulch above Animas	76.62	3.65	BDL	3.74	206.43	0.73
BL-1	Blair Gulch above Animas	24.61	0.58	BDL	0.94	63.59	0.13
SW-1	Swansea Gulch above Animas	75.38	5.12	BDL	4.42	209.35	BDL
DM-32	Ben Franklin Prospect	4.35	0.82	BDL	0.07	14.21	BDL
DM-33	Bavarian Mine Drainage	0.04	0.00	BDL	0.00	0.11	BDL
DM-34	Midway Mine Drainage	4.52	0.05	BDL	0.13	11.51	0.03
DM-35	Moonbeam Mine Drainage	14.75	0.60	BDL	0.33	39.33	0.25
DM-36	Auburn Tunnel Drainage	90.34	2.98	BDL	2.09	237.74	0.78
DM-37	Unknown Draining Mine in Aspens	22.28	1.04	BDL	0.61	59.95	0.20
DM-38	Unknown Draining Mine across from Maggie Gulch	8.07	0.29	BDL	0.30	21.37	0.07
DM-39	Hamlet Mine Drainage	119.82	6.61	BDL	4.27	326.27	1.85
DM-40	Esmerelda Mine Drainage	3.50	0.28	BDL	0.28	9.84	BDL
DM-43	Silver Star Mine Drainage	32.00	0.66	BDL	1.40	82.63	0.22
DM-44	Hidden Treasure Mine Drainage	0.94	0.16	BDL	0.09	2.99	0.02
DM-45	Old Hundred Mine Drainage	297.12	9.39	BDL	10.99	779.24	2.86
DM-46	Smuggler Mine Drainage	3.20	0.30	BDL	0.24	9.23	0.09
DM-47	Emma Mine Drainage	11.53	0.60	BDL	0.38	31.26	0.06
DM-49	Oyama Tunnel Mine Drainage	17.28	2.18	0.38	2.03	52.13	0.09
DM-50	Unknown Draining mine near top of Stony Pass	0.21	0.02	BDL	0.01	0.61	BDL
DM-51	Pride of the West Mine Drainage	41.59	2.87	BDL	0.93	115.49	BDL
DM-52	Green Mountain Mine Drainage	0.92	0.05	BDL	0.04	2.50	BDL
DM-53	Innis Tunnel Drainage	7.83	0.43	BDL	0.43	21.26	BDL
DM-54	Bradley Tunnel Drainage	0.48	0.03	BDL	0.01	1.33	0.00
DM-56	Little Nation Mine Drainage	31.70	2.04	BDL	1.24	87.46	0.46
DM-57	Valley Forge Mine Drainage	13.90	1.06	BDL	0.79	39.10	0.12
DM-58	Ezra Mine Drainage	1.62	0.02	BDL	0.06	4.14	0.01
DM-59	King Solomon Mine Drainage	0.06	0.00	BDL	0.00	0.17	BDL
DM-60	Black Prince Mine Drainage	2.40	0.07	BDL	0.05	6.27	BDL
DM-62	Iowa Mine Drainage	0.02	0.00	BDL	0.00	0.05	BDL
DM-63	Royal Tiger Mine Drainage	0.70	0.14	BDL	0.02	2.31	0.01
DM-64	Aspen Mine Drainage	156.52	2.57	BDL	3.48	401.60	0.62
DM-65	Blair Mountain Tunnel Drainage	26.42	0.42	BDL	0.74	67.65	0.16
DM-66	Last Chance Mine Drainage	32.93	1.73	BDL	2.03	89.43	0.28
DM-67	Mighty Monarch Mine Drainage	9.83	0.71	BDL	0.55	27.55	0.14
DM-69	Ransom Mine Drainage	33.12	1.12	BDL	0.74	87.28	BDL
DM-71	Queen of Maggie Mine Drainage	0.59	0.19	0.07	0.05	2.26	0.01
DM-72	Unknown Draining mine in Lower Minnie Gulch	0.19	0.02	BDL	0.01	0.57	0.00
DM-73	Little Casino Mine Drainage	0.62	0.11	BDL	0.06	2.02	0.03
DM-74	Midway Tunnel Drainage	11.49	0.29	BDL	0.37	29.89	0.07
DM-75	Joseph Neff Mine Drainage	2.73	0.27	BDL	0.19	7.95	0.04
DM-77	Jess Mine Drainage	1.05	0.04	BDL	0.04	2.77	0.01
DM-78	Argentine Tunnel Drainage	6.58	0.20	BDL	0.28	17.25	0.03
DM-79	South Iowa Adit	0.06	0.00	BDL	0.00	0.17	0.00
ARD-1	Acidic drainage from waste pile in Eureka	0.51	0.07	BDL	0.02	1.56	BDL
ARD-2	Acidic drainage from Howardsville Tails	74.54	11.15	3.19	2.94	232.36	1.98
A-72	Animas Gage	26105.55	1686.29	BDL	1022.59	72269.60	206.48
A-72	Animas Gage 7-8-98	103253.29	6669.66	BDL	4044.57	285842.44	816.69
A-68	Animas above Cement Creek	7978.35	495.35	BDL	339.03	21925.23	73.08
M-34	Mineral Creek Gage	9040.12	727.51	BDL	419.72	25613.67	51.66
C-48	Cement Creek Gage	6652.90	323.50	BDL	148.86	17962.84	73.60

Animas River Below Eureka
Low-Flow Loading Data

Site #	Description	SO4	Cl	Si
		kg/day	kg/day	kg/day
UA-12	Animas above Eureka Confluence	2729.16	BDL	211.31
LA-1	Animas below Eureka Confluence	3846.59	BDL	303.03
LA-2	Animas above Minnie Confluence	4453.65	BDL	385.66
LA-3	Animas below Maggie Confluence	4223.87	BDL	404.32
LA-4	Animas above Howardsville Tails	7933.29	BDL	802.47
LA-5	Animas below Cunningham	10587.82	81.44	1079.14
LA-6	Animas above Arrastra	13148.43	139.20	1358.11
LA-7	Animas above Boulder	12522.36	125.79	1346.11
LA-8	Animas below Boulder Creek	12993.35	123.04	1312.38
LA-9	Animas below Mayflower Tails	14348.80	134.83	1461.04
EG-1	Eureka Gulch above Sunnyside	7.65	BDL	0.87
EG-2	Eureka Gulch Headwaters	34.55	BDL	1.50
EG-3	Eureka Gulch above Confluence	37.77	BDL	2.66
EG-4	Eureka Gulch above Confluence	12.78	BDL	0.72
EG-5	Eureka Gulch below Tunnel	64.56	BDL	4.10
EG-6	Eureka Gulch below Terry Tunnel	114.12	BDL	9.29
EG-7	Eureka Gulch above South Fork	205.06	BDL	18.87
EG-8	South Fork above Eureka Gulch	797.66	BDL	49.66
EG-9	Eureka Gulch below South Fork	1124.28	BDL	74.27
EG-10	Eureka Gulch above Animas	1416.74	BDL	99.17
EG-11	Duplicate of EG-4	12.69	BDL	0.72
MI-1	Minnie Gulch above Esmerelda	75.30	BDL	21.70
MI-2	Minnie Gulch below Esmerelda	91.06	BDL	24.49
MI-3	Minnie Gulch above Tributary	215.10	BDL	24.93
MI-4	Tributary containing Kitti Mack	50.10	BDL	4.72
MI-5	Minnie Gulch below Tributary	562.03	BDL	36.07
MI-6	Minnie Gulch above Animas	590.02	BDL	63.47
MA-1	Maggie Gulch above Draining Mine	103.04	BDL	11.15
MA-2	Maggie Gulch below Upper Mines	139.81	BDL	15.77
MA-6	Maggie Gulch above Animas	446.96	BDL	68.72
MA-7	Duplicate of MA-6	445.72	BDL	68.47
CU-1	Cunningham Gulch below Spencer Creek	109.59	BDL	37.50
CU-2	Cunningham Gulch above Royal Tiger	154.21	BDL	51.46
CU-3	Cunningham Gulch below Highland Mary Tails	120.32	BDL	41.72
CU-4	Cunningham Gulch below Dives Creek	226.75	BDL	76.43
CU-5	Cunningham Gulch above Stony Gulch	367.93	BDL	86.21
CU-6	Cunningham Gulch below Stony Gulch	580.77	BDL	100.53
CU-7	Cunningham Gulch above Animas	1999.70	BDL	265.02
CU-8	Duplicate of CU-1	106.94	BDL	40.14
CU-9	Duplicate of CU-6	559.78	BDL	101.46
RG-1	Rocky Gulch below Buffalo Boy	20.84	BDL	1.93
RG-2	Rein Gulch above waste piles	11.16	BDL	0.72
RG-3	Rein Gulch below waste piles	13.10	BDL	0.86
RG-4	Rocky Gulch below Rein Gulch	BDL	BDL	4.23
RG-5	Duplicate of RG-4	49.99	BDL	4.52
SG-1	Stony Gulch headwaters	BDL	BDL	BDL
SG-2	Stony Gulch below draining mines	88.12	BDL	5.47
SG-3	Stony Gulch above Cunningham Gulch	223.10	BDL	18.31
SG-4	Duplicate of SG-3	223.55	BDL	17.51
LG-1	Little Giant headwaters (main stream)	14.45	BDL	BDL
LG-2	Little Giant below lakes (main stream)	7.78	BDL	BDL
LG-3	Little Giant below Big Giant Mine (second stream)	2.73	BDL	0.82
LG-4	Little Giant above Arrastra (main stream)	60.72	BDL	3.83
AB-1	Arrastra above Silver Lake	8.73	BDL	1.87
AB-2	Arrastra below Silver Lake	7.67	BDL	BDL

Animas River Below Eureka
Low-Flow Loading Data

Site #	Description	SO4	Cl	Si
		kg/day	kg/day	kg/day
AB-4	Arrastra below Woodchuck	523.62	BDL	84.93
AB-5	Arrastra below Little Giant	477.48	BDL	67.24
AB-6	Arrastra above Animas	665.37	BDL	83.92
WB-2	Woodchuck before flowing into Unity Tunnel	9.04	BDL	1.34
WB-3	Drainage from lower portal of Unity Tunnel	0.16	BDL	BDL
DB-1	Dives Basin above Cunningham Gulch	24.00	BDL	1.83
HG-1	Hematite Gulch above Animas	411.80	BDL	19.43
BG-1	Boulder Gulch above Animas	96.38	BDL	15.32
BL-1	Blair Gulch above Animas	47.06	BDL	4.78
SW-1	Swansea Gulch above Animas	86.44	BDL	20.44
DM-32	Ben Franklin Prospect	13.99	BDL	0.32
DM-33	Bavarian Mine Drainage	0.21	BDL	0.02
DM-34	Midway Mine Drainage	10.14	BDL	0.55
DM-35	Moonbeam Mine Drainage	25.56	BDL	2.25
DM-36	Auburn Tunnel Drainage	191.38	BDL	11.29
DM-37	Unknown Draining Mine in Aspens	48.10	BDL	3.93
DM-38	Unknown Draining Mine across from Maggie Gulch	16.47	BDL	1.46
DM-39	Hamlet Mine Drainage	244.50	BDL	15.46
DM-40	Esmerelda Mine Drainage	4.32	BDL	0.49
DM-43	Silver Star Mine Drainage	68.78	BDL	3.98
DM-44	Hidden Treasure Mine Drainage	2.74	BDL	0.49
DM-45	Old Hundred Mine Drainage	611.06	BDL	42.33
DM-46	Smuggler Mine Drainage	5.18	BDL	1.12
DM-47	Emma Mine Drainage	23.16	BDL	1.44
DM-49	Oyama Tunnel Mine Drainage	37.86	BDL	1.69
DM-50	Unknown Draining mine near top of Stony Pass	0.45	BDL	0.02
DM-51	Pride of the West Mine Drainage	26.37	BDL	3.27
DM-52	Green Mountain Mine Drainage	0.93	BDL	0.10
DM-53	Innis Tunnel Drainage	10.73	BDL	0.70
DM-54	Bradley Tunnel Drainage	1.14	BDL	0.03
DM-56	Little Nation Mine Drainage	80.76	BDL	6.63
DM-57	Valley Forge Mine Drainage	15.80	1.20	2.32
DM-58	Ezra Mine Drainage	2.69	BDL	0.23
DM-59	King Solomon Mine Drainage	0.06	BDL	0.01
DM-60	Black Prince Mine Drainage	0.98	BDL	BDL
DM-62	Iowa Mine Drainage	0.03	BDL	BDL
DM-63	Royal Tiger Mine Drainage	3.32	BDL	0.24
DM-64	Aspen Mine Drainage	338.78	BDL	12.25
DM-65	Blair Mountain Tunnel Drainage	64.28	BDL	2.96
DM-66	Last Chance Mine Drainage	65.25	BDL	8.06
DM-67	Mighty Monarch Mine Drainage	18.47	BDL	2.07
DM-69	Ransom Mine Drainage	153.68	BDL	2.61
DM-71	Queen of Maggie Mine Drainage	0.99	0.01	0.14
DM-72	Unknown Draining mine in Lower Minnie Gulch	0.62	BDL	0.10
DM-73	Little Casino Mine Drainage	1.05	BDL	0.17
DM-74	Midway Tunnel Drainage	33.15	BDL	1.15
DM-75	Joseph Neff Mine Drainage	7.98	BDL	1.01
DM-77	Jess Mine Drainage	1.86	BDL	0.20
DM-78	Argentine Tunnel Drainage	12.03	BDL	0.75
DM-79	South Iowa Adit	0.97	BDL	0.00
ARD-1	Acidic drainage from waste pile in Eureka	0.00	BDL	0.24
ARD-2	Acidic drainage from Howardsville Tails	250.95	13.29	15.15
A-72	Animas Gage	66370.04	255.65	5407.93
A-72	Animas Gage 7-8-98	262508.36	1011.14	21389.57
A-68	Animas above Cement Creek	14901.03	164.44	1490.10
M-34	Mineral Creek Gage	22600.30	BDL	2303.08
C-48	Cement Creek Gage	19376.58	BDL	1501.06

APPENDIX 2 – HIGH-FLOW DATA

Animas River Below Eureka
High-Flow Data

Site #	Description	Sample Time	Flow* cfs	pH s.u.	Cond. umhos/cm	Temp. Deg C	Tot. Ag ug/l	Diss. Ag ug/l
UA-12	Animas above Eureka Confluence	1115	200.52	7.13	71	4.9	BDL	BDL
LA-1	Animas below Eureka Confluence	1215	307.68	7	57	7.2	BDL	BDL
LA-2	Animas above Minnie Confluence	1122	ND	6.63	112	7	BDL	BDL
LA-3	Animas below Maggie Confluence	1149	ND	6.76	92	8	BDL	BDL
LA-4	Animas above Howardsville Tails	1220	ND	6.81	95	8	BDL	BDL
LA-5	Animas below Cunningham	900	613.18	7.14	94	4.9	BDL	BDL
LA-6	Animas above Arrastra	1240	ND	7.31	96	10	BDL	BDL
LA-7	Animas above Boulder	1100	680.62	7.08	104	6.4	BDL	BDL
LA-8	Animas below Boulder Creek	1300	ND	6.96	94	9	BDL	BDL
LA-9	Animas below Mayflower Tails	1230	796.73	7.12	106	7.1	BDL	BDL
EG-0	Duplicate of EG-2A	1200	3.59	5.5	196	3.5	BDL	BDL
EG-2A	Eureka Gulch above Sunnyside	1140	3.59	5.5	196	3.5	BDL	BDL
EG-1	Eureka Gulch Headwaters	1220	4.846	6.49	188	1.1	BDL	BDL
EG-3A	Eureka Gulch below Headwaters Confluence	1110	18.469	7.57	ND	3.2	BDL	BDL
EG-4	Eureka Gulch above Confluence	1142	5.659	7.01	ND	2.6	BDL	BDL
EG-5	Eureka Gulch below Tunnel	1030	21.115	7.5	151	1.8	BDL	BDL
EG-6	Eureka Gulch below Terry Tunnel	1200	37.014	7.5	111	2.1	BDL	BDL
EG-7	Eureka Gulch above South Fork	1130	39.8	6.5	98	4	BDL	BDL
EG-8	South Fork above Eureka Gulch	1045	50.57	6.9	97	4.7	BDL	BDL
EG-9	Eureka Gulch below South Fork	1200	93.39	6.48	93	4.5	BDL	BDL
EG-10	Eureka Gulch above Animas	1015	107.16	7.03	92	3.9	BDL	BDL
MI-1	Minnie Gulch above Esmerelda	1050	25.5	7.12	69	2	BDL	BDL
MI-2	Minnie Gulch below Esmerelda	1015	24.15	7.22	67	2	BDL	BDL
MI-3	Minnie Gulch above Tributary	1130	38.465	7.54	87	4	BDL	BDL
MI-4	Tributary containing Kitti Mack	1100	8.306	7.48	96	4.3	BDL	BDL
MI-5	Minnie Gulch below Tributary	1001	54.484	7.28	89	3.7	BDL	BDL
MI-6	Minnie Gulch above Animas	1045	47.504	6.64	122	5.2	BDL	BDL
MA-1	Maggie Gulch above Draining Mine	1546	26.739	7.48	34	1.7	BDL	BDL
MA-2	Maggie Gulch below Upper Mines	1500	36.391	7.52	62	2.2	BDL	BDL
MA-3	Cryatal Lake Tributary	1530	9.72	7.75	57	3	BDL	BDL
MA-4	Maggie Gulch above Little Maud	1615	78.75	7.55	49	5	0.2	BDL
MA-5	Maggie Gulch below Little Maud	1435	73.886	7.22	55	6	BDL	BDL
MA-6	Maggie Gulch above Animas	1550	104.511	7.94	229		BDL	BDL
CU-1	Cunningham Gulch below Spencer Creek	1600	84.96	7.8	47	3.3	BDL	BDL
CU-2	Cunningham Gulch above Royal Tiger	1525	106.03	7.3	50	3.8	BDL	BDL
CU-3	Cunningham Gulch below Highland Mary Tails	1400	114.87	7.26	49	4.6	BDL	BDL
CU-4	Cunningham Gulch below Dives Creek	1750	119.617	7.74		4.1	1.1	BDL
CU-5	Cunningham Gulch above Stony Gulch	1600	133.22	6.85	58	6.9	0.2	BDL
CU-6	Cunningham Gulch below Stony Gulch	1510	174.55	6.8	66	5.7	BDL	BDL
CU-7	Cunningham Gulch above Animas	1510	258.4	7.31	79	9	0.2	BDL
RG-1	Rocky Gulch below Buffalo Boy	1110	0.067	6.75	287	3.6	BDL	BDL
RG-1	Rocky Gulch below Buffalo Boy	1630	0.835	7.38	192	0.4	BDL	BDL
RG-2	Rein Gulch above waste piles	1550	1.295	8.33	64	1.2	BDL	BDL
RG-3	Rein Gulch below waste piles	1355	1.295	7.81	47	2.7	BDL	BDL
RG-3A	Rein Gulch above Rocky Gulch	1420	1.295	7.83	50	2.5	BDL	BDL
RG-4	Rocky Gulch below Rein Gulch	1018	6.21	6.67	171	0.6	BDL	BDL
RG-5	Duplicate of RG-3	1355	1.295	7.81	47	2.7	0.3	BDL
SG-1	Stony Gulch headwaters	1645	0.327	7.41	ND	1	BDL	BDL
SG-2	Stony Gulch below draining mines	1555	15.246	7.14	ND	2.1	BDL	BDL
SG-3	Stony Gulch above Cunningham Gulch	1530	41.33	6	86	5.5	BDL	BDL
LG-1	Little Giant headwaters (main stream)	1430	1.049	7.32	64	5.6	BDL	BDL
LG-2	Little Giant below lakes (main stream)	1320	1.934	7.23	90	4.6	BDL	BDL

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Data

Site #	Description	Sample Time	Flow* cfs	pH s.u.	Cond. umhos/cm	Temp. Deg C	Tot. Ag ug/l	Diss. Ag ug/l
LG-3	Little Giant below Big Giant Mine (second stream)	1055	0.44	8.81	62	4	BDL	BDL
LG-4	Little Giant above Arrastra (main stream)	1536	0.198	8.07	295	5.7	BDL	BDL
LG-5	Little Giant above Arrastra (second stream)	1510	1.851	7.71	53	2.6	BDL	BDL
LG-5	Little Giant above Arrastra (second stream)	1550	0.459	6.93	83	5.6	0.2	BDL
LG-6	Little Giant above debris fan (main stream)	1445	0.513	7.95	65	4.8	BDL	BDL
LG-6	Little Giant above debris fan (main stream)	924	0.149	7.01	99	9.3	BDL	BDL
LG-7	Duplicate of LG-4	1255	0.198	8.07	295	5.7	0.3	BDL
LG-7	Duplicate of LG-2	1315	1.934	7.23	90	4.6	BDL	BDL
AB-1	Arrastra above Silver Lake	1437	5.769	7.05	40	ND	BDL	BDL
AB-2	Arrastra below Silver Lake	1740	8.245	6.66	ND	ND	BDL	BDL
AB-4	Arrastra below Woodchuck	1315	22.906	8.09	96	1.9	BDL	BDL
AB-4	Arrastra below Woodchuck	940	28.03	6.88	185	7.3	BDL	BDL
AB-5	Arrastra below Little Giant	1200	39.733	7.85	96	2.8	BDL	BDL
AB-6	Arrastra above Animas	1042	46.996	7.19	95	4.3	BDL	BDL
AB-7	Duplicate of AB-4	1318	22.906	8.09	96	1.9	BDL	BDL
AB-8	Duplicate of AB-2	1740	8.245	6.66	ND	ND	BDL	BDL
WB-2	Woodchuck before flowing into Unity Tunnel	1238	2.461	6.85	39	10.7	BDL	BDL
WB-3	Drainage from lower portal of Unity Tunnel	1135	0.088	5.97	185	10.7	BDL	BDL
DB-1	Dives Basin above Cunningham Gulch		ND	6.2	115	11.5	BDL	BDL
DB-1	Dives Basin above Cunningham Gulch	1445	4.747	7.16	92	4.7	0.3	BDL
HG-1	Hematite Gulch above Animas	1230	12.79	7.1	69	4.4	BDL	BDL
BG-1	Boulder Gulch above Animas	1330	32.601	7.2	89	ND	0.2	BDL
BG-2	Boulder Gulch above Mayflower Tailings	1400	32.601		ND	ND	BDL	BDL
BL-1	Blair Gulch above Animas	1045	0.518		ND	ND	BDL	BDL
SW-1	Swansea Gulch above Animas	1115	13.792	6.93	50	3.4	0.2	BDL
DM-32	Ben Franklin Prospect	1245	1.376	5.92	ND	0.9	BDL	BDL
DM-33	Bavarian Mine	1345	0.026	3.99	128	3.5	BDL	BDL
DM-34	Draining mine above South Fork	1250	0.025	7.16	119	9	BDL	BDL
DM-35	Moonbeam Mine	1450	0.092	7.07	409	5.5	BDL	BDL
DM-36	Auburn Tunnel	1724	0.179	7.61	686	11.8	BDL	BDL
DM-37	Unknown Draining Mine in Aspens	945	0.075	7.28	371	ND	BDL	BDL
DM-38	Unknown Draining Mine across from Maggie Gulch	1130	0.047	7.41	368	12.2	BDL	BDL
DM-39	Hamlet Mine	1700	0.421	7.57	910	7.6	BDL	BDL
DM-40	Esmerelda Mine	1115	0.199	7.22	116	4	BDL	BDL
DM-41	Little Maud Mine	1345	0.001	8.24	124	7	1.4	BDL
DM-42	Progressive Mine	1645	0.216	7.44	236	12.1	BDL	BDL
DM-43	Silver Star Mine	1611	0.189	6.96	534	13.6	BDL	BDL
DM-44	Hidden Treasure Mine	1240	0.016	7.08	319	9	BDL	BDL
DM-45	Old Hundred Mine	1240	0.975	8.12	ND	12.1	BDL	BDL
DM-46	Smuggler Mine	1108	0.022	6.94	343	12.2	BDL	BDL
DM-47	Emma Mine	1345	0.017	7.22	615	9.4	BDL	BDL
DM-49	Oyama Tunnel	1305	0.067	6085	536	5.7	BDL	BDL
DM-50	Unknown Draining Mine near top of Stony Pass	1355	0.017	6.79	192	3	BDL	BDL
DM-51	Pride of the West Mine	1155	0.245	7.4	307	10.9	0.8	BDL
DM-52	Green Mountain Mine	1120	0.044	7.16	231	11.6	BDL	BDL
DM-53	Innis Tunnel	1046	0.285	6.54	286	11.2	BDL	BDL
DM-54	Bradley Tunnel	1010	0.061	6.8	270	7.2	0.3	0.2
DM-55	Shenandoah Dives Mine	1438	0.187	6.93	91	2.4	BDL	BDL
DM-56	Little Nation Mine	1438	0.227	6.55	429	14.7	BDL	BDL
DM-57	Valley Forge Mine	1410	0.529	7.62	183	16.8	BDL	BDL
DM-58	Ezra R Mine	1335	0.021	7.9	240		BDL	BDL
DM-59	Solomon Mine	1215	0.101	6.71	118	3.9	BDL	BDL

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Data

Site #	Description	Sample Time	Flow* cfs	pH s.u.	Cond. umhos/cm	Temp. Deg C	Tot. Ag ug/l	Diss. Ag ug/l
DM-60	Black Prince Mine	1130	0.083	8.13	61	3.7	BDL	BDL
DM-61	Upper Iowa Mine	1500	0.002	4.85	56	7.8	0.4	0.4
DM-62	Iowa Mine	1545	0.102	3.2	17	2.7	0.4	BDL
DM-63	Royal Tiger Mine	1635	0.111	5.01	312	3.2	0.3	BDL
DM-64	Aspen Mine	1130	0.724	7.52	704	13	BDL	BDL
DM-65	Blair Mountain Tunnel	1226	0.06	6.92	778	12.8	BDL	BDL
DM-66	Last Chance Mine	1040	0.265	7.33	209	14.8	BDL	BDL
DM-67	Mighty Monarch Mine	1000	0.023	6.97	310	15	BDL	BDL
DM-68	Kitti Mack Mine	940	0.208	7.3	213	6	BDL	BDL
DM-69	Ransom Mine	1215	0.067	6.87	955	9	BDL	BDL
DM-71	Queen of Maggie Mine	1600	0.036	7.18	102	5	BDL	BDL
DM-72	Unknown Draining mine in lower Minnie Gulch	1120	0.008	3.36	544	4	BDL	BDL
DM-73	Little Casino Mine	1110	0.001	7.7	270	ND	BDL	BDL
DM-74	Midway Tunnel	1040	0.029	7.26	1090	10	BDL	BDL
DM-76	Pittsburg Tunnel/Malachite Falls	950	0.011	6.8	360	ND	BDL	BDL
DM-77	Jess Mine	1500	0.011	7.2	280	ND	BDL	BDL
DM-78	Argentine Tunnel	1400	0.033	8.3	290	ND	BDL	BDL
DM-79	Iowa Mine - Southern Adit	1705	0.045	6.6	65	ND	BDL	BDL
DM-80	Duplicate of DM-77	1515	0.011	7.2	280	ND	BDL	BDL
DM-81	Duplicate if DM-43	1611	0.189	6.96	534	13.6	BDL	BDL
ARD-1	Acidic drainage from Ben Franklin Waste Pile	1045	0.11	3.3	ND	7.7	1	0.4
ARD-2	Acidic drainage from Howardsville Tails	1230	0.24	5.66	455	16.2	BDL	BDL
ARD-3	Seepage near Silverton Lakes Campground	1208	0.039	5.73	880	18.7	0.2	BDL
ARD-4	Seepage south of Silverton Lakes Campground	1200	0.061	3.8	1356	21.6	BDL	BDL
ARD-5	Duplicate of ARD-2	1220	0.24	5.66	455	16.2	BDL	BDL
A-72	Animas Gage	1525	1519	7.26	119	10	0.3	BDL
A-68	Animas above Cement Creek	1450	725	7.25	104	9.5	BDL	BDL
M-34	Mineral Creek Gage	915	611.5	5.9	87	3.2	BDL	BDL
C-48	Cement Creek Gage	1015	170	4.63	172	ND	0.2	BDL
		*Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6						

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Data

Site #	Description	Tot. Al	Diss. Al	Tot. As	Diss. As	Tot. Ba	Diss. Ba	Tot. Be
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
UA-12	Animas above Eureka Confluence	472	BDL	1.9	BDL	8.7	8.1	BDL
LA-1	Animas below Eureka Confluence	331	62	3.8	BDL	8.9	8.1	BDL
LA-2	Animas above Minnie Confluence	390	48	BDL	BDL	11.3	7.7	BDL
LA-3	Animas below Maggie Confluence	404	BDL	BDL	BDL	16.8	13	BDL
LA-4	Animas above Howardsville Tails	666	BDL	BDL	BDL	18.3	12.2	BDL
LA-5	Animas below Cunningham	961	BDL	BDL	BDL	24.4	16.3	BDL
LA-6	Animas above Arrastra	795	BDL	1.8	BDL	22.7	15.9	BDL
LA-7	Animas above Boulder	757	BDL	1.7	BDL	22.5	15.3	BDL
LA-8	Animas below Boulder Creek	370	BDL	BDL	BDL	20.3	14.6	BDL
LA-9	Animas below Mayflower Tails	416	40	BDL	BDL	20.5	14.4	BDL
EG-0	Duplicate of EG-2A	212	BDL	BDL	BDL	14.8	BDL	BDL
EG-2A	Eureka Gulch above Sunnyside	261	303	BDL	BDL	16	16	261
EG-1	Eureka Gulch Headwaters	BDL	BDL	BDL	BDL	14.3	13.5	BDL
EG-3A	Eureka Gulch below Headwaters Confluence	150	62	BDL	BDL	14.8	13.6	BDL
EG-4	Eureka Gulch above Confluence	434	57	BDL	BDL	18.4	14.1	BDL
EG-5	Eureka Gulch below Tunnel	86	69	BDL	BDL	15	14.6	BDL
EG-6	Eureka Gulch below Terry Tunnel	293	74	BDL	BDL	14.7	12.7	BDL
EG-7	Eureka Gulch above South Fork	106	58	BDL	BDL	15.5	14	BDL
EG-8	South Fork above Eureka Gulch	33	53	BDL	BDL	9.4	8.5	BDL
EG-9	Eureka Gulch below South Fork	98	72	BDL	BDL	12.2	10.9	BDL
EG-10	Eureka Gulch above Animas	BDL	69	BDL	BDL	8.8	9.7	BDL
MI-1	Minnie Gulch above Esmerelda	222	BDL	BDL	BDL	51	49.6	BDL
MI-2	Minnie Gulch below Esmerelda	224	BDL	BDL	BDL	49.1	48.9	BDL
MI-3	Minnie Gulch above Tributary	203	BDL	BDL	BDL	40.9	40.2	BDL
MI-4	Tributary containing Kitti Mack	60	BDL	BDL	BDL	19.8	19.2	BDL
MI-5	Minnie Gulch below Tributary	140	BDL	BDL	BDL	36	36.3	BDL
MI-6	Minnie Gulch above Animas	486	BDL	BDL	BDL	31.5	27.7	BDL
MA-1	Maggie Gulch above Draining Mine	1388	BDL	BDL	BDL	20.5	11.6	BDL
MA-2	Maggie Gulch below Upper Mines	1912	BDL	2.1	BDL	28.4	13.3	BDL
MA-3	Cryatal Lake Tributary	298	BDL	BDL	BDL	14.3	12.5	BDL
MA-4	Maggie Gulch above Little Maud	4769	BDL	BDL	BDL	58.3	21.3	BDL
MA-5	Maggie Gulch below Little Maud	2716	BDL	BDL	BDL	44.7	23.8	BDL
MA-6	Maggie Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CU-1	Cunningham Gulch below Spencer Creek	1856	BDL	BDL	BDL	51.6	25	BDL
CU-2	Cunningham Gulch above Royal Tiger	1871	BDL	BDL	BDL	60.9	29.7	BDL
CU-3	Cunningham Gulch below Highland Mary Tails	1151	BDL	BDL	BDL	45.9	31	BDL
CU-4	Cunningham Gulch below Dives Creek	2820	BDL	3.5	BDL	100.5	27.2	BDL
CU-5	Cunningham Gulch above Stony Gulch	1167	BDL	BDL	BDL	41.2	29.2	BDL
CU-6	Cunningham Gulch below Stony Gulch	658	BDL	BDL	BDL	35.9	23.4	BDL
CU-7	Cunningham Gulch above Animas	2291	BDL	BDL	BDL	48.2	26	BDL
RG-1	Rocky Gulch below Buffalo Boy	33	BDL	BDL	BDL	36.4	33.7	BDL
RG-1	Rocky Gulch below Buffalo Boy	475	79	3.3	BDL	16.2	15.6	BDL
RG-2	Rein Gulch above waste piles	814	BDL	1	BDL	22.4	15.8	BDL
RG-3	Rein Gulch below waste piles	224	BDL	BDL	BDL	16.6	14.1	BDL
RG-3A	Rein Gulch above Rocky Gulch	286	BDL	BDL	BDL	17.3	14.1	BDL
RG-4	Rocky Gulch below Rein Gulch	1052	BDL	BDL	BDL	30.2	21.5	BDL
RG-5	Duplicate of RG-3	70	BDL	BDL	BDL	15.5	14	BDL
SG-1	Stony Gulch headwaters	111	BDL	BDL	BDL	9.3	7.5	BDL
SG-2	Stony Gulch below draining mines	817	BDL	BDL	BDL	21.1	14.5	BDL
SG-3	Stony Gulch above Cunningham Gulch	991	BDL	BDL	BDL	22.1	15	BDL
LG-1	Little Giant headwaters (main stream)	BDL	BDL	BDL	BDL	12.3	11.1	BDL
LG-2	Little Giant below lakes (main stream)	BDL	BDL	BDL	BDL	8.2	7.1	BDL

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Data

Site #	Description	Tot. Al	Diss. Al	Tot. As	Diss. As	Tot. Ba	Diss. Ba	Tot. Be
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
LG-3	Little Giant below Big Giant Mine (second stream)	BDL	BDL	BDL	BDL	16.4	14.5	BDL
LG-4	Little Giant above Arrastra (main stream)	BDL	BDL	BDL	BDL	10	20.4	BDL
LG-5	Little Giant above Arrastra (second stream)	BDL	BDL	BDL	BDL	7.5	7	BDL
LG-5	Little Giant above Arrastra (second stream)	BDL	BDL	BDL	BDL	7.8	7.3	BDL
LG-6	Little Giant above debris fan (main stream)	BDL	BDL	BDL	BDL	13.5	12.5	BDL
LG-6	Little Giant above debris fan (main stream)	BDL	BDL	BDL	BDL	15.8	14.7	BDL
LG-7	Duplicate of LG-4	2743	BDL	2.9	BDL	42.9	9.2	BDL
LG-7	Duplicate of LG-2	32	BDL	BDL	BDL	8	7.6	BDL
AB-1	Arrastra above Silver Lake	43	BDL	BDL	BDL	18.8	16.9	BDL
AB-2	Arrastra below Silver Lake	31	BDL	BDL	BDL	18.5	17.5	BDL
AB-4	Arrastra below Woodchuck	BDL	BDL	BDL	BDL	12.9	12.9	BDL
AB-4	Arrastra below Woodchuck	BDL	BDL	BDL	BDL	15.3	14.7	BDL
AB-5	Arrastra below Little Giant	BDL	BDL	BDL	BDL	12.6	12.4	BDL
AB-6	Arrastra above Animas	BDL	BDL	BDL	BDL	13.7	13.3	BDL
AB-7	Duplicate of AB-4	BDL	BDL	BDL	BDL	12.4	11.9	BDL
AB-8	Duplicate of AB-2	BDL	BDL	BDL	BDL	18.4	17.7	BDL
WB-2	Woodchuck before flowing into Unity Tunnel	BDL	BDL	BDL	BDL	8.8	9.8	BDL
WB-3	Drainage from lower portal of Unity Tunnel	BDL	BDL	BDL	BDL	10.5	11.9	BDL
DB-1	Dives Basin above Cunningham Gulch	BDL	BDL	BDL	BDL	20.8	18.9	BDL
DB-1	Dives Basin above Cunningham Gulch	120	BDL	BDL	BDL	17.6	16.6	BDL
HG-1	Hematite Gulch above Animas	97	BDL	BDL	BDL	4.3	3.7	BDL
BG-1	Boulder Gulch above Animas	124	BDL	BDL	BDL	6.7	6.1	BDL
BG-2	Boulder Gulch above Mayflower Tailings	125	BDL	BDL	BDL	7.6	6.3	BDL
BL-1	Blair Gulch above Animas	118	BDL	BDL	BDL	9.3	7.9	BDL
SW-1	Swansea Gulch above Animas	2252	BDL	1.2	BDL	32.7	17.9	BDL
DM-32	Ben Franklin Prospect	692	705	BDL	BDL	14.8	14.5	BDL
DM-33	Bavarian Mine	267	278	BDL	BDL	5	4.6	BDL
DM-34	Draining mine above South Fork	BDL	BDL	BDL	BDL	4	3.9	BDL
DM-35	Moonbeam Mine	132	66	1.2	BDL	10.3	9.1	BDL
DM-36	Auburn Tunnel	42	BDL	BDL	BDL	8.4	9.6	BDL
DM-37	Unknown Draining Mine in Aspens	BDL	BDL	BDL	BDL	12.2	11.7	BDL
DM-38	Unknown Draining Mine across from Maggie Gulch	BDL	BDL	BDL	BDL	6.8	5.6	BDL
DM-39	Hamlet Mine	BDL	BDL	1.5	BDL	10.1	10.9	BDL
DM-40	Esmerelda Mine	480	BDL	BDL	BDL	37	35.4	BDL
DM-41	Little Maud Mine	849	BDL	BDL	BDL	14.6	8.8	BDL
DM-42	Progressive Mine	BDL	BDL	BDL	BDL	2.6	2.9	BDL
DM-43	Silver Star Mine	BDL	BDL	BDL	BDL	2.6	3	BDL
DM-44	Hidden Treasure Mine	BDL	BDL	BDL	BDL	12.5	12	BDL
DM-45	Old Hundred Mine	BDL	BDL	1.4	BDL	9.3	10.2	BDL
DM-46	Smuggler Mine	266	44	BDL	BDL	10.7	11.7	BDL
DM-47	Emma Mine	BDL	BDL	BDL	BDL	17.3	19.7	BDL
DM-49	Oyama Tunnel	BDL	BDL	1.6	BDL	10.1	10.8	BDL
DM-50	Unknown Draining Mine near top of Stony Pass	184	BDL	1.6	BDL	16.3	15.4	BDL
DM-51	Pride of the West Mine	216	BDL	BDL	BDL	6.7	6.7	BDL
DM-52	Green Mountain Mine	BDL	BDL	BDL	BDL	8.4	9.6	BDL
DM-53	Innis Tunnel	BDL	BDL	BDL	BDL	8	8.6	BDL
DM-54	Bradley Tunnel	1049	BDL	BDL	BDL	11.8	12.3	BDL
DM-55	Shenandoah Dives Mine	115	BDL	BDL	BDL	12.9	10.2	BDL
DM-56	Little Nation Mine	224	183	BDL	BDL	9.6	11.3	BDL
DM-57	Valley Forge Mine	141	BDL	BDL	BDL	5.9	4.3	BDL
DM-58	Ezra R Mine	BDL	BDL	BDL	BDL	19.1	20.7	BDL
DM-59	Solomon Mine	BDL	BDL	BDL	BDL	4.6	4	BDL

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Data

Site #	Description	Tot. Al	Diss. Al	Tot. As	Diss. As	Tot. Ba	Diss. Ba	Tot. Be
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
DM-60	Black Prince Mine	BDL	BDL	BDL	BDL	5.5	4.2	BDL
DM-61	Upper Iowa Mine	324	291	BDL	BDL	15.5	14	BDL
DM-62	Iowa Mine	1081	BDL	BDL	BDL	10.4	5.2	BDL
DM-63	Royal Tiger Mine	8681	8876	BDL	BDL	6.8	6.4	3
DM-64	Aspen Mine	BDL	BDL	BDL	BDL	16.2	17	BDL
DM-65	Blair Mountain Tunnel	BDL	BDL	1.2	1.8	14.5	15.1	BDL
DM-66	Last Chance Mine	30	BDL	BDL	BDL	28.7	28.5	BDL
DM-67	Mighty Monarch Mine	BDL	BDL	BDL	BDL	16.2	18.1	BDL
DM-68	Kitti Mack Mine	276	BDL	BDL	BDL	13.9	13.8	BDL
DM-69	Ransom Mine	BDL	BDL	BDL	BDL	1.9	1.7	BDL
DM-71	Queen of Maggie Mine	BDL	BDL	1.4	BDL	12.2	12.8	BDL
DM-72	Unknown Draining mine in lower Minnie Gulch	1396	1756	BDL	BDL	8.6	10.2	BDL
DM-73	Little Casino Mine	92	BDL	BDL	BDL	13.4	13.1	BDL
DM-74	Midway Tunnel	BDL	BDL	BDL	BDL	13.6	14.6	BDL
DM-76	Pittsburg Tunnel/Malachite Falls	508	BDL	BDL	BDL	7.6	7.5	BDL
DM-77	Jess Mine	138	BDL	BDL	BDL	11.8	11.6	BDL
DM-78	Argentine Tunnel	BDL	BDL	BDL	BDL	9.1	9.8	BDL
DM-79	Iowa Mine - Southern Adit	200	67	BDL	BDL	16.9	16	BDL
DM-80	Duplicate of DM-77	170	BDL	BDL	BDL	12	12.2	BDL
DM-81	Duplicate if DM-43	BDL	BDL	2	BDL	3.2	3.1	BDL
ARD-1	Acidic drainage from Ben Franklin Waste Pile	3111	3140	1.8	BDL	17.9	18.5	BDL
ARD-2	Acidic drainage from Howardsville Tails	714	731	1.1	BDL	20	23.2	BDL
ARD-3	Seepage near Silverton Lakes Campground	1551	1505	3.4	1	14.3	14.2	1.1
ARD-4	Seepage south of Silverton Lakes Campground	2375	2535	3	1	20.1	23.2	1.3
ARD-5	Duplicate of ARD-2	684	701	1	BDL	19.8	23.7	BDL
A-72	Animas Gage	1986	BDL	2	BDL	33	16.6	BDL
A-68	Animas above Cement Creek	437	BDL	BDL	BDL	21.6	15	BDL
M-34	Mineral Creek Gage	2200	50	3.6	BDL	36.7	16.4	BDL
C-48	Cement Creek Gage	3012	780	2.6	BDL	37	18.9	BDL

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Data

Site #	Description	Diss. Be	Tot. Cd	Diss. Cd	Tot. Co	Diss. Co	Tot. Cr	Diss. Cr
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
UA-12	Animas above Eureka Confluence	BDL	1.8	0.9	BDL	BDL	BDL	BDL
LA-1	Animas below Eureka Confluence	BDL	1.4	0.9	BDL	7.2	BDL	BDL
LA-2	Animas above Minnie Confluence	BDL	0.9	0.9	BDL	BDL	BDL	BDL
LA-3	Animas below Maggie Confluence	BDL	1.2	0.7	BDL	BDL	BDL	BDL
LA-4	Animas above Howardsville Tails	BDL	0.7	0.6	BDL	BDL	BDL	BDL
LA-5	Animas below Cunningham	BDL	BDL	BDL	BDL	BDL	BDL	BDL
LA-6	Animas above Arrastra	BDL	0.6	BDL	BDL	BDL	BDL	BDL
LA-7	Animas above Boulder	BDL	0.6	BDL	BDL	BDL	BDL	BDL
LA-8	Animas below Boulder Creek	BDL	0.6	BDL	BDL	BDL	BDL	BDL
LA-9	Animas below Mayflower Tails	BDL	0.6	BDL	BDL	BDL	BDL	BDL
EG-0	Duplicate of EG-2A	BDL	11.7	10.8	BDL	BDL	BDL	BDL
EG-2A	Eureka Gulch above Sunnyside	BDL	10.8	10.4	16	BDL	BDL	BDL
EG-1	Eureka Gulch Headwaters	BDL	BDL	BDL	BDL	BDL	BDL	BDL
EG-3A	Eureka Gulch below Headwaters Confluence	BDL	4.7	4.7	BDL	BDL	BDL	BDL
EG-4	Eureka Gulch above Confluence	BDL	3.7	3.2	BDL	BDL	BDL	BDL
EG-5	Eureka Gulch below Tunnel	BDL	2.2	2.3	BDL	BDL	BDL	BDL
EG-6	Eureka Gulch below Terry Tunnel	BDL	1.4	1.5	BDL	BDL	BDL	BDL
EG-7	Eureka Gulch above South Fork	BDL	1.1	1.1	BDL	BDL	BDL	BDL
EG-8	South Fork above Eureka Gulch	BDL	BDL	BDL	BDL	BDL	BDL	BDL
EG-9	Eureka Gulch below South Fork	BDL	BDL	BDL	BDL	BDL	BDL	BDL
EG-10	Eureka Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MI-1	Minnie Gulch above Esmerelda	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MI-2	Minnie Gulch below Esmerelda	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MI-3	Minnie Gulch above Tributary	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MI-4	Tributary containing Kitti Mack	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MI-5	Minnie Gulch below Tributary	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MI-6	Minnie Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MA-1	Maggie Gulch above Draining Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MA-2	Maggie Gulch below Upper Mines	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MA-3	Cryatal Lake Tributary	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MA-4	Maggie Gulch above Little Maud	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MA-5	Maggie Gulch below Little Maud	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MA-6	Maggie Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CU-1	Cunningham Gulch below Spencer Creek	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CU-2	Cunningham Gulch above Royal Tiger	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CU-3	Cunningham Gulch below Highland Mary Tails	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CU-4	Cunningham Gulch below Dives Creek	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CU-5	Cunningham Gulch above Stony Gulch	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CU-6	Cunningham Gulch below Stony Gulch	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CU-7	Cunningham Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL	BDL
RG-1	Rocky Gulch below Buffalo Boy	BDL	BDL	BDL	BDL	BDL	BDL	BDL
RG-1	Rocky Gulch below Buffalo Boy	BDL	1.7	BDL	BDL	BDL	BDL	BDL
RG-2	Rein Gulch above waste piles	BDL	BDL	BDL	BDL	BDL	BDL	BDL
RG-3	Rein Gulch below waste piles	BDL	1.3	BDL	BDL	BDL	BDL	BDL
RG-3A	Rein Gulch above Rocky Gulch	BDL	BDL	BDL	BDL	BDL	BDL	BDL
RG-4	Rocky Gulch below Rein Gulch	BDL	BDL	BDL	BDL	BDL	BDL	BDL
RG-5	Duplicate of RG-3	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SG-1	Stony Gulch headwaters	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SG-2	Stony Gulch below draining mines	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SG-3	Stony Gulch above Cunningham Gulch	BDL	BDL	BDL	BDL	BDL	BDL	BDL
LG-1	Little Giant headwaters (main stream)	BDL	BDL	BDL	BDL	BDL	BDL	BDL
LG-2	Little Giant below lakes (main stream)	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Data

Site #	Description	Diss. Be	Tot. Cd	Diss. Cd	Tot. Co	Diss. Co	Tot. Cr	Diss. Cr
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
LG-3	Little Giant below Big Giant Mine (second stream)	BDL	BDL	BDL	BDL	BDL	BDL	BDL
LG-4	Little Giant above Arrastra (main stream)	BDL	BDL	BDL	BDL	BDL	BDL	BDL
LG-5	Little Giant above Arrastra (second stream)	BDL	BDL	BDL	BDL	BDL	BDL	BDL
LG-5	Little Giant above Arrastra (second stream)	BDL	BDL	BDL	BDL	BDL	BDL	BDL
LG-6	Little Giant above debris fan (main stream)	BDL	BDL	BDL	BDL	BDL	BDL	BDL
LG-6	Little Giant above debris fan (main stream)	BDL	BDL	BDL	BDL	BDL	BDL	BDL
LG-7	Duplicate of LG-4	BDL	BDL	BDL	BDL	BDL	BDL	BDL
LG-7	Duplicate of LG-2	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AB-1	Arrastra above Silver Lake	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AB-2	Arrastra below Silver Lake	BDL	2.4	1.2	BDL	BDL	BDL	BDL
AB-4	Arrastra below Woodchuck	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AB-4	Arrastra below Woodchuck	BDL	0.6	BDL	BDL	BDL	BDL	BDL
AB-5	Arrastra below Little Giant	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AB-6	Arrastra above Animas	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AB-7	Duplicate of AB-4	BDL	BDL	BDL	BDL	BDL	BDL	BDL
AB-8	Duplicate of AB-2	BDL	2.5	1.2	BDL	BDL	BDL	BDL
WB-2	Woodchuck before flowing into Unity Tunnel	BDL	BDL	BDL	BDL	BDL	BDL	BDL
WB-3	Drainage from lower portal of Unity Tunnel	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DB-1	Dives Basin above Cunningham Gulch	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DB-1	Dives Basin above Cunningham Gulch	BDL	BDL	BDL	BDL	BDL	BDL	BDL
HG-1	Hematite Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BG-1	Boulder Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BG-2	Boulder Gulch above Mayflower Tailings	BDL	BDL	BDL	BDL	BDL	BDL	BDL
BL-1	Blair Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SW-1	Swansea Gulch above Animas	BDL	0.6	BDL	BDL	BDL	BDL	BDL
DM-32	Ben Franklin Prospect	BDL	1.6	0.8	BDL	BDL	BDL	BDL
DM-33	Bavarian Mine	BDL	3.7	2.4	BDL	BDL	BDL	BDL
DM-34	Draining mine above South Fork	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-35	Moonbeam Mine	BDL	1.1	0.6	BDL	BDL	BDL	BDL
DM-36	Auburn Tunnel	BDL	0.7	BDL	BDL	BDL	BDL	BDL
DM-37	Unknown Draining Mine in Aspens	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-38	Unknown Draining Mine across from Maggie Gulch	BDL	1	BDL	BDL	BDL	BDL	BDL
DM-39	Hamlet Mine	BDL	1.8	1	BDL	BDL	BDL	BDL
DM-40	Esmerelda Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-41	Little Maud Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-42	Progressive Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-43	Silver Star Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-44	Hidden Treasure Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-45	Old Hundred Mine	BDL	0.6	BDL	BDL	BDL	BDL	BDL
DM-46	Smuggler Mine	BDL	2.6	1.6	17.1	21.8	BDL	BDL
DM-47	Emma Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-49	Oyama Tunnel	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-50	Unknown Draining Mine near top of Stony Pass	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-51	Pride of the West Mine	BDL	11	8.7	BDL	BDL	BDL	BDL
DM-52	Green Mountain Mine	BDL	8.2	6.3	BDL	BDL	BDL	BDL
DM-53	Innis Tunnel	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-54	Bradley Tunnel	BDL	13.5	11.9	BDL	12.8	BDL	BDL
DM-55	Shenandoah Dives Mine	BDL	1.5	0.7	BDL	BDL	BDL	BDL
DM-56	Little Nation Mine	1.4	2.5	1.6	14.2	15.3	BDL	BDL
DM-57	Valley Forge Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-58	Ezra R Mine	BDL	0.7	BDL	BDL	BDL	BDL	BDL
DM-59	Solomon Mine	BDL	0.7	BDL	BDL	BDL	BDL	BDL

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Data

Site #	Description	Diss. Be	Tot. Cd	Diss. Cd	Tot. Co	Diss. Co	Tot. Cr	Diss. Cr
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
DM-60	Black Prince Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-61	Upper Iowa Mine	BDL	47.9	31.4	BDL	BDL	BDL	BDL
DM-62	Iowa Mine	BDL	3.4	1.5	BDL	BDL	BDL	BDL
DM-63	Royal Tiger Mine	3.1	72.1	72.9	57.2	55.4	BDL	BDL
DM-64	Aspen Mine	BDL	6.9	5.5	BDL	BDL	BDL	BDL
DM-65	Blair Mountain Tunnel	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-66	Last Chance Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-67	Mighty Monarch Mine	BDL	2.1	1.4	BDL	BDL	BDL	BDL
DM-68	Kitti Mack Mine	BDL	7.4	3.8	BDL	BDL	BDL	BDL
DM-69	Ransom Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-71	Queen of Maggie Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-72	Unknown Draining mine in lower Minnie Gulch	1.1	BDL	BDL	16.3	16.8	BDL	BDL
DM-73	Little Casino Mine	BDL	1.5	BDL	BDL	BDL	BDL	BDL
DM-74	Midway Tunnel	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-76	Pittsburg Tunnel/Malachite Falls	BDL	4.6	3.3	BDL	BDL	BDL	BDL
DM-77	Jess Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-78	Argentine Tunnel	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-79	Iowa Mine - Southern Adit	BDL	32.4	19.1	BDL	BDL	BDL	BDL
DM-80	Duplicate of DM-77	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-81	Duplicate if DM-43	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ARD-1	Acidic drainage from Ben Franklin Waste Pile	BDL	19	13	BDL	BDL	BDL	BDL
ARD-2	Acidic drainage from Howardsville Tails	BDL	18.8	12.9	14.3	17	BDL	BDL
ARD-3	Seepage near Silverton Lakes Campground	1.3	26.2	16.8	BDL	11.9	BDL	BDL
ARD-4	Seepage south of Silverton Lakes Campground	2	1.9	0.9	31.5	38.1	BDL	BDL
ARD-5	Duplicate of ARD-2	BDL	18.8	11.8	15.6	11.6	BDL	BDL
A-72	Animas Gage	BDL	0.7	BDL	BDL	BDL	BDL	BDL
A-68	Animas above Cement Creek	BDL	0.6	BDL	BDL	BDL	BDL	BDL
M-34	Mineral Creek Gage	BDL	BDL	BDL	BDL	BDL	BDL	BDL
C-48	Cement Creek Gage	BDL	2.1	2.4	BDL	BDL	BDL	BDL

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Data

Site #	Description	Tot. Cu	Diss. Cu	Tot. Fe	Diss. Fe	Tot. Mn	Diss. Mn	Tot. Ni
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
UA-12	Animas above Eureka Confluence	10.6	8.5	179	14.8	590.8	608.4	BDL
LA-1	Animas below Eureka Confluence	15.9	10.6	156.1	19.7	584.7	554.5	BDL
LA-2	Animas above Minnie Confluence	16.4	8.7	380.1	8.6	521.8	419.4	BDL
LA-3	Animas below Maggie Confluence	11.9	6.5	400.1	8.9	403.1	318.7	BDL
LA-4	Animas above Howardsville Tails	12.7	6.5	590.7	6.4	393.5	247.5	BDL
LA-5	Animas below Cunningham	11.5	5.9	747.4	11.9	326.5	179.4	BDL
LA-6	Animas above Arrastra	12.5	6.1	686.3	11	326.1	181.6	BDL
LA-7	Animas above Boulder	14.9	8	733.3	13.3	308.4	162.1	BDL
LA-8	Animas below Boulder Creek	12.7	8.9	516.2	10.8	393.3	255.4	BDL
LA-9	Animas below Mayflower Tails	13.2	6.1	603.7	9.4	429.6	268.1	BDL
EG-0	Duplicate of EG-2A	122.7	BDL	54.9	BDL	3266	16	BDL
EG-2A	Eureka Gulch above Sunnyside	56.7	57.5	52.7	6.2	3419	3517	56.7
EG-1	Eureka Gulch Headwaters	BDL	BDL	95	13.3	4.3	2.3	BDL
EG-3A	Eureka Gulch below Headwaters Confluence	19.6	12.6	281.1	15.7	2024	1940	BDL
EG-4	Eureka Gulch above Confluence	25.6	10.6	863.7	11.8	1747	1376	BDL
EG-5	Eureka Gulch below Tunnel	21.8	19.3	168.1	22.5	1035	1027	BDL
EG-6	Eureka Gulch below Terry Tunnel	25.3	14.3	481.9	25.4	799	693	BDL
EG-7	Eureka Gulch above South Fork	20.3	14.5	179.2	12.9	583.8	540	BDL
EG-8	South Fork above Eureka Gulch	BDL	BDL	185.9	39.5	28.4	20.5	BDL
EG-9	Eureka Gulch below South Fork	13.2	8.7	304.8	28.9	310.9	249.9	BDL
EG-10	Eureka Gulch above Animas	8.9	8.5	121.9	31.7	215.5	203.8	BDL
MI-1	Minnie Gulch above Esmerelda	BDL	BDL	146.6	13	5.3	1.4	BDL
MI-2	Minnie Gulch below Esmerelda	BDL	BDL	144.4	9.3	5.6	1	BDL
MI-3	Minnie Gulch above Tributary	BDL	BDL	117	7.9	506	BDL	BDL
MI-4	Tributary containing Kitti Mack	BDL	BDL	55.9	BDL	BDL	BDL	BDL
MI-5	Minnie Gulch below Tributary	BDL	BDL	98.7	7.4	4.1	BDL	BDL
MI-6	Minnie Gulch above Animas	BDL	6.5	380.7	15.4	19.3	4.1	BDL
MA-1	Maggie Gulch above Draining Mine	BDL	BDL	1147	80.7	79.7	24.9	BDL
MA-2	Maggie Gulch below Upper Mines	BDL	BDL	1517	56.2	130.4	41.8	BDL
MA-3	Cryatal Lake Tributary	BDL	BDL	211	10.5	13.7	1.5	BDL
MA-4	Maggie Gulch above Little Maud	BDL	BDL	2680	31.4	153.5	16.9	BDL
MA-5	Maggie Gulch below Little Maud	BDL	BDL	1536	23.5	90.9	13.5	BDL
MA-6	Maggie Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CU-1	Cunningham Gulch below Spencer Creek	BDL	BDL	1429	18	90.9	2.5	BDL
CU-2	Cunningham Gulch above Royal Tiger	BDL	BDL	1399	23.3	74.1	3.8	BDL
CU-3	Cunningham Gulch below Highland Mary Tails	BDL	BDL	902.3	19.6	55.5	2.8	BDL
CU-4	Cunningham Gulch below Dives Creek	12.4	BDL	4064	17.7	391.8	6.5	BDL
CU-5	Cunningham Gulch above Stony Gulch	BDL	BDL	877.2	32.7	58.3	12.8	BDL
CU-6	Cunningham Gulch below Stony Gulch	BDL	BDL	801.5	31	66.1	20.9	BDL
CU-7	Cunningham Gulch above Animas	BDL	BDL	1641	16.7	100.8	4.4	BDL
RG-1	Rocky Gulch below Buffalo Boy	BDL	BDL	48.9	52.7	9.9	9.9	BDL
RG-1	Rocky Gulch below Buffalo Boy	9.5	BDL	734.6	51.1	297.2	290.8	BDL
RG-2	Rein Gulch above waste piles	BDL	BDL	459.6	7.3	13.9	BDL	BDL
RG-3	Rein Gulch below waste piles	BDL	BDL	183	5.8	8.6	1.8	BDL
RG-3A	Rein Gulch above Rocky Gulch	BDL	5.4	195.8	6.2	12	2.4	BDL
RG-4	Rocky Gulch below Rein Gulch	BDL	BDL	594.5	10.3	24.9	6.8	BDL
RG-5	Duplicate of RG-3	BDL	5.4	98.1	5.6	10.4	1.6	BDL
SG-1	Stony Gulch headwaters	BDL	BDL	106	9.7	12.8	7.6	BDL
SG-2	Stony Gulch below draining mines	BDL	BDL	726.9	25	50	17.5	BDL
SG-3	Stony Gulch above Cunningham Gulch	BDL	BDL	719.5	27.3	37.3	17.1	BDL
LG-1	Little Giant headwaters (main stream)	BDL	BDL	11.4	BDL	BDL	BDL	BDL
LG-2	Little Giant below lakes (main stream)	BDL	BDL	20.8	BDL	11.8	9.8	BDL

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Data

Site #	Description	Tot. Cu	Diss. Cu	Tot. Fe	Diss. Fe	Tot. Mn	Diss. Mn	Tot. Ni
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
LG-3	Little Giant below Big Giant Mine (second stream)	BDL	BDL	29.9	BDL	BDL	BDL	BDL
LG-4	Little Giant above Arrastra (main stream)	BDL	BDL	53.4	18.5	4.9	4.7	BDL
LG-5	Little Giant above Arrastra (second stream)	BDL	7.6	40.9	BDL	BDL	BDL	BDL
LG-5	Little Giant above Arrastra (second stream)	BDL	BDL	13.7	BDL	BDL	BDL	BDL
LG-6	Little Giant above debris fan (main stream)	BDL	BDL	68.1	BDL	BDL	BDL	BDL
LG-6	Little Giant above debris fan (main stream)	BDL	BDL	10.2	BDL	BDL	BDL	BDL
LG-7	Duplicate of LG-4	BDL	BDL	1670	BDL	90.4	BDL	BDL
LG-7	Duplicate of LG-2	BDL	9.7	23.3	BDL	11.8	10.6	BDL
AB-1	Arrastra above Silver Lake	BDL	BDL	29.3	6.3	BDL	BDL	BDL
AB-2	Arrastra below Silver Lake	11.3	12.7	34.9	BDL	123.1	108.3	BDL
AB-4	Arrastra below Woodchuck	8.2	7.2	24	BDL	BDL	BDL	BDL
AB-4	Arrastra below Woodchuck	BDL	BDL	28.2	BDL	5.4	BDL	BDL
AB-5	Arrastra below Little Giant	BDL	8	60.2	BDL	6.9	BDL	BDL
AB-6	Arrastra above Animas	9.4	9.1	48.3	BDL	5.2	1.9	BDL
AB-7	Duplicate of AB-4	BDL	5.4	20	BDL	BDL	BDL	BDL
AB-8	Duplicate of AB-2	9.4	13.3	36.8	8.5	124.3	112.2	BDL
WB-2	Woodchuck before flowing into Unity Tunnel	BDL	BDL	21.1	8	3.1	8.1	BDL
WB-3	Drainage from lower portal of Unity Tunnel	BDL	BDL	11.6	BDL	BDL	BDL	BDL
DB-1	Dives Basin above Cunningham Gulch	BDL	BDL	13.6	11.7	BDL	BDL	BDL
DB-1	Dives Basin above Cunningham Gulch	BDL	BDL	65.6	BDL	9.4	2	BDL
HG-1	Hematite Gulch above Animas	BDL	BDL	84.7	6.8	14.9	5	BDL
BG-1	Boulder Gulch above Animas	BDL	BDL	92.2	11.1	70.9	77.9	BDL
BG-2	Boulder Gulch above Mayflower Tailings	BDL	BDL	109.3	9.3	7.7	6.4	BDL
BL-1	Blair Gulch above Animas	BDL	BDL	139.7	15.6	27.3	15.1	BDL
SW-1	Swansea Gulch above Animas	12.1	7	1490	36.5	133.1	19.6	BDL
DM-32	Ben Franklin Prospect	55.3	54.6	45.4	28.3	393.5	398.2	BDL
DM-33	Bavarian Mine	274.8	281.9	322.1	188	2795	2803	BDL
DM-34	Draining mine above South Fork	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-35	Moonbeam Mine	BDL	BDL	627.7	80.8	657	443.2	BDL
DM-36	Auburn Tunnel	BDL	6.5	679.1	259.3	327.3	325.3	BDL
DM-37	Unknown Draining Mine in Aspens	BDL	BDL	5591	5575	654.6	662.1	BDL
DM-38	Unknown Draining Mine across from Maggie Gulch	BDL	BDL	878.4	625.4	325.2	330.3	BDL
DM-39	Hamlet Mine	89.5	15.8	999.8	6.7	648.1	678	BDL
DM-40	Esmerelda Mine	BDL	BDL	200.1	BDL	16.5	12.9	BDL
DM-41	Little Maud Mine	BDL	7.3	535.4	BDL	48.5	5.6	BDL
DM-42	Progressive Mine	BDL	BDL	6.6	BDL	BDL	2.6	BDL
DM-43	Silver Star Mine	BDL	BDL	14.2	BDL	23	24.4	BDL
DM-44	Hidden Treasure Mine	BDL	BDL	3152	851.5	949.3	853	BDL
DM-45	Old Hundred Mine	8.5	BDL	61.4	BDL	5.6	BDL	BDL
DM-46	Smuggler Mine	9.9	BDL	4564	3188	1390	1550	BDL
DM-47	Emma Mine	BDL	BDL	30.4	BDL	41.4	13.3	BDL
DM-49	Oyama Tunnel	BDL	BDL	532.9	57.3	513.5	527.2	BDL
DM-50	Unknown Draining Mine near top of Stony Pass	BDL	BDL	2353	705.1	13.8	12.5	BDL
DM-51	Pride of the West Mine	78.7	19	467.4	BDL	351.6	355.8	BDL
DM-52	Green Mountain Mine	BDL	7.6	30.4	BDL	9.5	9.4	BDL
DM-53	Innis Tunnel	BDL	8.4	30.9	BDL	17.1	16.5	BDL
DM-54	Bradley Tunnel	1.35	644.6	474.4	9.7	2023	2193	BDL
DM-55	Shenandoah Dives Mine	73.1	46.4	67.9	BDL	147	128.6	BDL
DM-56	Little Nation Mine	13.6	14.1	6742	7352	1152	1255	BDL
DM-57	Valley Forge Mine	BDL	BDL	290.8	BDL	17.8	BDL	BDL
DM-58	Ezra R Mine	10.5	BDL	30.4	BDL	22.3	22.6	BDL
DM-59	Solomon Mine	17.6	20.4	50.1	17.7	7.9	5.9	BDL

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Data

Site #	Description	Tot. Cu	Diss. Cu	Tot. Fe	Diss. Fe	Tot. Mn	Diss. Mn	Tot. Ni
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
DM-60	Black Prince Mine	BDL	BDL	41.3	BDL	7.6	BDL	BDL
DM-61	Upper Iowa Mine	1028	1070	25	17	909.5	870.3	BDL
DM-62	Iowa Mine	48.1	15.3	596.6	15.9	39.6	19.7	BDL
DM-63	Royal Tiger Mine	1246	1325	774.8	792.8	5533	5415	22.2
DM-64	Aspen Mine	24.3	18.8	31.8	BDL	16.7	14.5	BDL
DM-65	Blair Mountain Tunnel	BDL	BDL	888.8	743.7	383.6	403.2	BDL
DM-66	Last Chance Mine	BDL	BDL	366.3	130.5	364.7	323.2	BDL
DM-67	Mighty Monarch Mine	BDL	BDL	506.8	40.8	1078	1186	BDL
DM-68	Kitti Mack Mine	669.5	144.6	1364	35.6	375.6	180.2	BDL
DM-69	Ransom Mine	BDL	BDL	41.3	5.4	73.2	77.7	BDL
DM-71	Queen of Maggie Mine	BDL	BDL	881.7	7.8	871	994.2	BDL
DM-72	Unknown Draining mine in lower Minnie Gulch	BDL	5	2756	3126	1115	1310	BDL
DM-73	Little Casino Mine	BDL	BDL	389.9	BDL	301.3	22.5	BDL
DM-74	Midway Tunnel	11.9	BDL	108.7	BDL	307.4	310.2	BDL
DM-76	Pittsburg Tunnel/Malachite Falls	900.3	572.1	37.6	BDL	5325	5887	BDL
DM-77	Jess Mine	BDL	BDL	1223	355.9	370.4	380.4	BDL
DM-78	Argentine Tunnel	BDL	BDL	26.5	BDL	4.7	2.7	BDL
DM-79	Iowa Mine - Southern Adit	234.2	250.8	57.5	BDL	82.9	85.7	BDL
DM-80	Duplicate of DM-77	11.4	BDL	1350	356.1	379.5	387	BDL
DM-81	Duplicate if DM-43	BDL	BDL	12.7	9	24.1	25.7	BDL
ARD-1	Acidic drainage from Ben Franklin Waste Pile	761.7	788	3004	2461	479.4	2.03	BDL
ARD-2	Acidic drainage from Howardsville Tails	43.7	52.7	6041	5528	13430	14990	BDL
ARD-3	Seepage near Silverton Lakes Campground	12.1	14.7	440.9	68.3	69840	83070	24.8
ARD-4	Seepage south of Silverton Lakes Campground	BDL	19.8	3208	2747	40810	47410	BDL
ARD-5	Duplicate of ARD-2	41.8	48.3	5885	5526	13160	15030	BDL
A-72	Animas Gage	31.3	8.5	2850	107	407.3	224.8	BDL
A-68	Animas above Cement Creek	11.5	5.6	512.3	10.1	436.7	280	BDL
M-34	Mineral Creek Gage	14	5.2	3322	197.1	143.4	77.4	BDL
C-48	Cement Creek Gage	101.8	90.1	5975	1545	460	401.1	BDL

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Data

Site #	Description	Diss. Ni	Tot. Pb	Diss. Pb	Tot. Sb	Diss. Sb	Tot. Va	Diss. Va
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
UA-12	Animas above Eureka Confluence	BDL	6.4	1.1	BDL	BDL	BDL	BDL
LA-1	Animas below Eureka Confluence	BDL	7.1	0.7	BDL	BDL	BDL	BDL
LA-2	Animas above Minnie Confluence	BDL	13.8	1.1	BDL	BDL	BDL	BDL
LA-3	Animas below Maggie Confluence	BDL	11.3	0.7	BDL	BDL	BDL	BDL
LA-4	Animas above Howardsville Tails	BDL	23.7	BDL	BDL	BDL	BDL	BDL
LA-5	Animas below Cunningham	BDL	24.8	0.7	BDL	BDL	BDL	BDL
LA-6	Animas above Arrastra	BDL	27.3	BDL	BDL	BDL	BDL	BDL
LA-7	Animas above Boulder	BDL	25.7	BDL	BDL	BDL	BDL	BDL
LA-8	Animas below Boulder Creek	BDL	22.6	BDL	BDL	BDL	BDL	BDL
LA-9	Animas below Mayflower Tails	BDL	25.5	1	BDL	BDL	BDL	BDL
EG-0	Duplicate of EG-2A	BDL	4.6	2.4	BDL	BDL	BDL	BDL
EG-2A	Eureka Gulch above Sunnyside	BDL	5.2	1.7	5.2	BDL	52.7	BDL
EG-1	Eureka Gulch Headwaters	BDL	BDL	BDL	BDL	BDL	BDL	BDL
EG-3A	Eureka Gulch below Headwaters Confluence	BDL	2.7	BDL	BDL	BDL	BDL	BDL
EG-4	Eureka Gulch above Confluence	BDL	18.7	BDL	BDL	BDL	BDL	BDL
EG-5	Eureka Gulch below Tunnel	BDL	10.1	1.7	BDL	BDL	BDL	BDL
EG-6	Eureka Gulch below Terry Tunnel	BDL	14.6	1.3	BDL	BDL	BDL	BDL
EG-7	Eureka Gulch above South Fork	BDL	6.7	1.1	BDL	BDL	BDL	BDL
EG-8	South Fork above Eureka Gulch	BDL	BDL	BDL	BDL	BDL	BDL	BDL
EG-9	Eureka Gulch below South Fork	BDL	6.1	1.1	BDL	BDL	BDL	BDL
EG-10	Eureka Gulch above Animas	BDL	1.7	0.9	BDL	BDL	BDL	BDL
MI-1	Minnie Gulch above Esmerelda	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MI-2	Minnie Gulch below Esmerelda	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MI-3	Minnie Gulch above Tributary	BDL	BDL	1	BDL	BDL	BDL	BDL
MI-4	Tributary containing Kitti Mack	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MI-5	Minnie Gulch below Tributary	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MI-6	Minnie Gulch above Animas	BDL	1.1	BDL	BDL	BDL	BDL	BDL
MA-1	Maggie Gulch above Draining Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MA-2	Maggie Gulch below Upper Mines	BDL	0.9	BDL	BDL	BDL	BDL	BDL
MA-3	Cryatal Lake Tributary	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MA-4	Maggie Gulch above Little Maud	BDL	1.9	BDL	BDL	BDL	BDL	BDL
MA-5	Maggie Gulch below Little Maud	BDL	1	BDL	BDL	BDL	BDL	BDL
MA-6	Maggie Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL	BDL
CU-1	Cunningham Gulch below Spencer Creek	BDL	1.7	BDL	BDL	BDL	BDL	BDL
CU-2	Cunningham Gulch above Royal Tiger	BDL	1.5	BDL	BDL	BDL	BDL	BDL
CU-3	Cunningham Gulch below Highland Mary Tails	BDL	7.9	BDL	BDL	BDL	BDL	BDL
CU-4	Cunningham Gulch below Dives Creek	BDL	119.6	0.8	BDL	BDL	BDL	BDL
CU-5	Cunningham Gulch above Stony Gulch	BDL	12.3	0.8	BDL	BDL	BDL	BDL
CU-6	Cunningham Gulch below Stony Gulch	BDL	13.3	0.8	BDL	BDL	BDL	BDL
CU-7	Cunningham Gulch above Animas	BDL	27.3	0.7	BDL	BDL	BDL	BDL
RG-1	Rocky Gulch below Buffalo Boy	BDL	BDL	BDL	BDL	BDL	BDL	BDL
RG-1	Rocky Gulch below Buffalo Boy	BDL	4.2	BDL	BDL	BDL	BDL	BDL
RG-2	Rein Gulch above waste piles	BDL	3	0.6	BDL	BDL	BDL	BDL
RG-3	Rein Gulch below waste piles	BDL	6.9	1	BDL	BDL	BDL	BDL
RG-3A	Rein Gulch above Rocky Gulch	BDL	4.6	0.8	BDL	BDL	BDL	BDL
RG-4	Rocky Gulch below Rein Gulch	BDL	2.3	BDL	BDL	BDL	BDL	BDL
RG-5	Duplicate of RG-3	BDL	7.9	BDL	BDL	BDL	BDL	BDL
SG-1	Stony Gulch headwaters	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SG-2	Stony Gulch below draining mines	BDL	5.8	BDL	BDL	BDL	BDL	BDL
SG-3	Stony Gulch above Cunningham Gulch	BDL	8.7	0.6	BDL	BDL	BDL	BDL
LG-1	Little Giant headwaters (main stream)	BDL	0.8	BDL	BDL	BDL	BDL	BDL
LG-2	Little Giant below lakes (main stream)	BDL	6.1	1.4	BDL	BDL	BDL	BDL

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Data

Site #	Description	Diss. Ni	Tot. Pb	Diss. Pb	Tot. Sb	Diss. Sb	Tot. Va	Diss. Va
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
LG-3	Little Giant below Big Giant Mine (second stream)	BDL	1.9	BDL	BDL	BDL	BDL	BDL
LG-4	Little Giant above Arrastra (main stream)	BDL	1.1	BDL	BDL	BDL	BDL	BDL
LG-5	Little Giant above Arrastra (second stream)	BDL	1	BDL	BDL	BDL	BDL	BDL
LG-5	Little Giant above Arrastra (second stream)	BDL	1.2	BDL	BDL	BDL	BDL	BDL
LG-6	Little Giant above debris fan (main stream)	BDL	BDL	BDL	BDL	BDL	BDL	BDL
LG-6	Little Giant above debris fan (main stream)	BDL	BDL	BDL	BDL	BDL	BDL	BDL
LG-7	Duplicate of LG-4	BDL	2.9	BDL	BDL	BDL	BDL	BDL
LG-7	Duplicate of LG-2	BDL	5.9	1.5	BDL	BDL	BDL	BDL
AB-1	Arrastra above Silver Lake	BDL	1	BDL	BDL	BDL	BDL	BDL
AB-2	Arrastra below Silver Lake	BDL	18.4	3.5	BDL	BDL	BDL	BDL
AB-4	Arrastra below Woodchuck	BDL	1.1	BDL	BDL	BDL	BDL	BDL
AB-4	Arrastra below Woodchuck	BDL	4.1	BDL	BDL	BDL	BDL	BDL
AB-5	Arrastra below Little Giant	BDL	7	0.9	BDL	BDL	BDL	BDL
AB-6	Arrastra above Animas	BDL	5	1.4	BDL	BDL	BDL	BDL
AB-7	Duplicate of AB-4	BDL	1.4	2.8	BDL	BDL	BDL	BDL
AB-8	Duplicate of AB-2	BDL	18.6	6.9	BDL	BDL	BDL	BDL
WB-2	Woodchuck before flowing into Unity Tunnel	BDL	5.4	3.8	BDL	BDL	BDL	BDL
WB-3	Drainage from lower portal of Unity Tunnel	BDL	1.8	BDL	BDL	BDL	BDL	BDL
DB-1	Dives Basin above Cunningham Gulch	BDL	2.4	BDL	BDL	BDL	BDL	BDL
DB-1	Dives Basin above Cunningham Gulch	BDL	7.2	0.6	BDL	BDL	BDL	BDL
HG-1	Hematite Gulch above Animas	BDL	2.1	BDL	BDL	BDL	BDL	BDL
BG-1	Boulder Gulch above Animas	BDL	2.5	BDL	BDL	BDL	BDL	BDL
BG-2	Boulder Gulch above Mayflower Tailings	BDL	2.6	BDL	BDL	BDL	BDL	BDL
BL-1	Blair Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL	BDL
SW-1	Swansea Gulch above Animas	BDL	89.3	2.4	BDL	BDL	BDL	BDL
DM-32	Ben Franklin Prospect	BDL	11.3	9.3	BDL	BDL	BDL	BDL
DM-33	Bavarian Mine	BDL	171.1	149.3	BDL	BDL	BDL	BDL
DM-34	Draining mine above South Fork	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-35	Moonbeam Mine	BDL	14.5	1.4	BDL	BDL	BDL	BDL
DM-36	Auburn Tunnel	BDL	1	BDL	BDL	BDL	BDL	BDL
DM-37	Unknown Draining Mine in Aspens	BDL	0.6	0.8	BDL	BDL	BDL	BDL
DM-38	Unknown Draining Mine across from Maggie Gulch	BDL	11.6	0.6	BDL	BDL	BDL	BDL
DM-39	Hamlet Mine	BDL	2.8	BDL	BDL	BDL	BDL	BDL
DM-40	Esmerelda Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-41	Little Maud Mine	BDL	3.5	BDL	BDL	BDL	BDL	BDL
DM-42	Progressive Mine	BDL	BDL	0.7	BDL	BDL	BDL	BDL
DM-43	Silver Star Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-44	Hidden Treasure Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-45	Old Hundred Mine	BDL	7.7	1.1	BDL	BDL	BDL	BDL
DM-46	Smuggler Mine	BDL	2.9	BDL	BDL	BDL	BDL	BDL
DM-47	Emma Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-49	Oyama Tunnel	BDL	BDL	0.7	BDL	BDL	BDL	BDL
DM-50	Unknown Draining Mine near top of Stony Pass	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-51	Pride of the West Mine	BDL	204.6	9.4	BDL	BDL	BDL	BDL
DM-52	Green Mountain Mine	BDL	30.8	16.1	BDL	BDL	BDL	BDL
DM-53	Innis Tunnel	BDL	2	0.9	BDL	BDL	BDL	BDL
DM-54	Bradley Tunnel	BDL	189.6	25.8	BDL	BDL	BDL	BDL
DM-55	Shenandoah Dives Mine	BDL	19.3	4	BDL	BDL	BDL	BDL
DM-56	Little Nation Mine	BDL	3.2	2.8	BDL	BDL	BDL	BDL
DM-57	Valley Forge Mine	BDL	12.5	BDL	BDL	BDL	BDL	BDL
DM-58	Ezra R Mine	BDL	12.9	2.2	BDL	BDL	BDL	BDL
DM-59	Solomon Mine	BDL	12	4.9	BDL	BDL	BDL	BDL

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Data

Site #	Description	Diss. Ni	Tot. Pb	Diss. Pb	Tot. Sb	Diss. Sb	Tot. Va	Diss. Va
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
DM-60	Black Prince Mine	BDL	0.6	BDL	BDL	BDL	BDL	BDL
DM-61	Upper Iowa Mine	BDL	5839	5606	BDL	BDL	BDL	BDL
DM-62	Iowa Mine	BDL	119.3	20.8	BDL	BDL	BDL	BDL
DM-63	Royal Tiger Mine	21.4	1423	1368	BDL	BDL	BDL	BDL
DM-64	Aspen Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-65	Blair Mountain Tunnel	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-66	Last Chance Mine	BDL	0.9	BDL	BDL	BDL	BDL	BDL
DM-67	Mighty Monarch Mine	BDL	1	BDL	BDL	BDL	BDL	BDL
DM-68	Kitti Mack Mine	BDL	145.8	5.6	BDL	BDL	BDL	BDL
DM-69	Ransom Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-71	Queen of Maggie Mine	BDL	BDL	BDL	BDL	BDL	BDL	BDL
DM-72	Unknown Draining mine in lower Minnie Gulch	BDL	BDL	0.6	BDL	BDL	BDL	BDL
DM-73	Little Casino Mine	BDL	6.5	BDL	BDL	BDL	BDL	BDL
DM-74	Midway Tunnel	BDL	BDL	0.6	BDL	BDL	BDL	BDL
DM-76	Pittsburg Tunnel/Malachite Falls	BDL	1.5	BDL	BDL	BDL	BDL	BDL
DM-77	Jess Mine	BDL	1	BDL	BDL	BDL	BDL	BDL
DM-78	Argentine Tunnel	BDL	BDL	0.6	BDL	BDL	BDL	BDL
DM-79	Iowa Mine - Southern Adit	BDL	420.7	393.4	BDL	BDL	BDL	BDL
DM-80	Duplicate of DM-77	BDL	2.7	BDL	BDL	BDL	BDL	BDL
DM-81	Duplicate if DM-43	BDL	0.8	BDL	BDL	BDL	BDL	BDL
ARD-1	Acidic drainage from Ben Franklin Waste Pile	5742	479.4	518.4	BDL	BDL	BDL	BDL
ARD-2	Acidic drainage from Howardsville Tails	11.8	17.9	3.6	BDL	BDL	BDL	BDL
ARD-3	Seepage near Silverton Lakes Campground	38.6	17.7	4.6	BDL	BDL	BDL	BDL
ARD-4	Seepage south of Silverton Lakes Campground	23.1	20.1	12.1	BDL	BDL	BDL	BDL
ARD-5	Duplicate of ARD-2	12.1	17.3	3.3	BDL	BDL	BDL	BDL
A-72	Animas Gage	BDL	34.1	BDL	BDL	BDL	BDL	BDL
A-68	Animas above Cement Creek	BDL	21.6	0.6	BDL	BDL	BDL	BDL
M-34	Mineral Creek Gage	BDL	13.5	BDL	BDL	BDL	BDL	BDL
C-48	Cement Creek Gage	BDL	23.9	2.4	BDL	BDL	BDL	BDL

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Data

Site #	Description	Tot.Zn	Diss. Zn	Diss. Ca	Diss. Mg	Diss. K	Diss. Na
		ug/l	mg/l	mg/l	mg/l	mg/l	mg/l
UA-12	Animas above Eureka Confluence	374.5	370.8	12.2	1.14	BDL	0.44
LA-1	Animas below Eureka Confluence	363.6	340.9	12.2	1.12	BDL	0.45
LA-2	Animas above Minnie Confluence	455.3	425.6	17.4	1.31	BDL	0.67
LA-3	Animas below Maggie Confluence	371.9	342.7	16.4	1.28	BDL	0.74
LA-4	Animas above Howardsville Tails	385.9	339	17.8	1.33	BDL	0.75
LA-5	Animas below Cunningham	290.3	240	16.5	1.25	BDL	0.76
LA-6	Animas above Arrastra	291.6	248	17.8	1.34	BDL	0.82
LA-7	Animas above Boulder	286	221	17.1	1.23	BDL	0.78
LA-8	Animas below Boulder Creek	301.7	248.6	17.5	1.26	BDL	0.79
LA-9	Animas below Mayflower Tails	303.5	277.3	17.5	1.24	BDL	0.79
EG-0	Duplicate of EG-2A	3475	12.2	0.1	BDL	BDL	0.03
EG-2A	Eureka Gulch above Sunnyside	3594	3794	29.8	2.04	BDL	0.52
EG-1	Eureka Gulch Headwaters	BDL	4.1	17.5	0.79	BDL	0.6
EG-3A	Eureka Gulch below Headwaters Confluence	1999	1993	20.7	1.31	BDL	0.43
EG-4	Eureka Gulch above Confluence	1638	1429	19.8	1.25	BDL	0.49
EG-5	Eureka Gulch below Tunnel	1031	1082	21.3	1.53	BDL	0.56
EG-6	Eureka Gulch below Terry Tunnel	744.3	737.6	16.4	1.23	BDL	0.48
EG-7	Eureka Gulch above South Fork	577.5	570.3	16.8	1.2	BDL	0.48
EG-8	South Fork above Eureka Gulch	22.5	20.1	16.1	1	BDL	0.59
EG-9	Eureka Gulch below South Fork	288.3	262.2	16	1.08	BDL	0.53
EG-10	Eureka Gulch above Animas	250.4	248.1	17.2	1.14	BDL	0.6
MI-1	Minnie Gulch above Esmerelda	BDL	BDL	11.8	1.21	BDL	0.95
MI-2	Minnie Gulch below Esmerelda	BDL	BDL	12.5	1.21	BDL	0.95
MI-3	Minnie Gulch above Tributary	BDL	BDL	14.6	1.26	BDL	0.92
MI-4	Tributary containing Kitti Mack	11.3	10.7	16.5	1.19	BDL	0.82
MI-5	Minnie Gulch below Tributary	BDL	BDL	15.2	1.26	BDL	0.91
MI-6	Minnie Gulch above Animas	7.9	4.9	15.5	1.27	BDL	1.04
MA-1	Maggie Gulch above Draining Mine	12.1	23.7	9.18	1.2	BDL	0.65
MA-2	Maggie Gulch below Upper Mines	13.3	4.8	9.24	1.26	BDL	0.67
MA-3	Cryatal Lake Tributary	BDL	5.9	12.6	0.63	BDL	0.43
MA-4	Maggie Gulch above Little Maud	15.5	4.9	9.36	1.25	BDL	0.67
MA-5	Maggie Gulch below Little Maud	12.5	BDL	10.7	1.27	BDL	0.72
MA-6	Maggie Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL
CU-1	Cunningham Gulch below Spencer Creek	7.5	5.6	7.61	0.73	BDL	0.54
CU-2	Cunningham Gulch above Royal Tiger	5.1	65.8	7.94	0.94	BDL	0.57
CU-3	Cunningham Gulch below Highland Mary Tails	7.3	BDL	8.53	0.97	BDL	0.6
CU-4	Cunningham Gulch below Dives Creek	47.4	15.5	8.75	0.87	BDL	0.56
CU-5	Cunningham Gulch above Stony Gulch	19.2	7	10.4	1	BDL	0.63
CU-6	Cunningham Gulch below Stony Gulch	27.3	14.2	12.8	1.07	BDL	0.65
CU-7	Cunningham Gulch above Animas	36.1	10	13.4	1.08	BDL	0.74
RG-1	Rocky Gulch below Buffalo Boy	BDL	5.8	57.5	3.89	0.65	1.44
RG-1	Rocky Gulch below Buffalo Boy	37.7	39.4	32.2	2.5	BDL	0.84
RG-2	Rein Gulch above waste piles	8.3	BDL	11.2	0.79	BDL	0.45
RG-3	Rein Gulch below waste piles	14.7	15	12.7	0.94	BDL	0.56
RG-3A	Rein Gulch above Rocky Gulch	22.1	13.7	12.2	0.94	BDL	0.54
RG-4	Rocky Gulch below Rein Gulch	13.4	9.8	17.5	1.18	BDL	0.85
RG-5	Duplicate of RG-3	12.2	10.3	12.4	0.96	BDL	0.55
SG-1	Stony Gulch headwaters	5.2	BDL	2.9	0.24	BDL	0.11
SG-2	Stony Gulch below draining mines	14.2	21.8	15.1	1.14	BDL	0.53
SG-3	Stony Gulch above Cunningham Gulch	26.1	13	17.5	1.22	BDL	0.68
LG-1	Little Giant headwaters (main stream)	23.4	25	9.29	0.28	BDL	0.2
LG-2	Little Giant below lakes (main stream)	43.4	48.9	8.87	0.26	BDL	0.21

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Data

Site #	Description	Tot.Zn	Diss. Zn	Diss. Ca	Diss. Mg	Diss. K	Diss. Na
		ug/l	mg/l	mg/l	mg/l	mg/l	mg/l
LG-3	Little Giant below Big Giant Mine (second stream)	BDL	BDL	12.7	0.61	0.57	0.5
LG-4	Little Giant above Arrastra (main stream)	33	BDL	12.3	1.16	BDL	0.74
LG-5	Little Giant above Arrastra (second stream)	19.6	19.4	8.67	0.33	BDL	0.26
LG-5	Little Giant above Arrastra (second stream)	16.1	37.7	9.02	0.33	0.57	0.25
LG-6	Little Giant above debris fan (main stream)	9.5	6.2	10.5	0.71	BDL	0.98
LG-6	Little Giant above debris fan (main stream)	6.1	7.4	13.3	0.83	BDL	0.92
LG-7	Duplicate of LG-4	8.5	25.1	59.3	1.99	BDL	2.78
LG-7	Duplicate of LG-2	43	45.6	8.06	0.28	BDL	0.22
AB-1	Arrastra above Silver Lake	10.2	33.7	11.8	0.29	BDL	0.32
AB-2	Arrastra below Silver Lake	354.4	348.1	7.59	0.41	0.31	0.27
AB-4	Arrastra below Woodchuck	74.6	76.2	16.6	0.8	BDL	0.76
AB-4	Arrastra below Woodchuck	85.9	83.8	20.9	1.04	0.48	0.98
AB-5	Arrastra below Little Giant	86.1	95.6	16.5	0.8	BDL	0.76
AB-6	Arrastra above Animas	112.3	133.4	16.6	0.77	BDL	0.78
AB-7	Duplicate of AB-4	70.4	87.2	15.1	0.74	BDL	0.74
AB-8	Duplicate of AB-2	357.1	351	7.47	0.4	BDL	0.27
WB-2	Woodchuck before flowing into Unity Tunnel	50.4	63.7	5.73	0.27	BDL	0.22
WB-3	Drainage from lower portal of Unity Tunnel	47.5	59.3	32	1.92	BDL	1.41
DB-1	Dives Basin above Cunningham Gulch	27.7	25.2	21.7	1.02	0.44	0.42
DB-1	Dives Basin above Cunningham Gulch	59.3	55.7	17.6	0.74	BDL	0.41
HG-1	Hematite Gulch above Animas	15.7	10.6	17	0.76	BDL	0.74
BG-1	Boulder Gulch above Animas	69.8	36.3	11	0.56	BDL	0.54
BG-2	Boulder Gulch above Mayflower Tailings	34.3	22.5	10.7	0.52	BDL	0.52
BL-1	Blair Gulch above Animas	BDL	81.1	21.9	0.7	BDL	1.2
SW-1	Swansea Gulch above Animas	183.1	109.2	10.5	0.69	BDL	0.6
DM-32	Ben Franklin Prospect	303.2	314	43.8	8.52	BDL	0.7
DM-33	Bavarian Mine	1159	1181	12	1	BDL	0.3
DM-34	Draining mine above South Fork	23.7	18.4	259	3.4	BDL	7.64
DM-35	Moonbeam Mine	445.8	402.4	86.3	3.75	BDL	2.17
DM-36	Auburn Tunnel	205.6	197.2	157	5.68	BDL	3.78
DM-37	Unknown Draining Mine in Aspens	56.9	63.8	106	4.94	BDL	2.96
DM-38	Unknown Draining Mine across from Maggie Gulch	245.6	232.4	94.2	3.53	BDL	3.78
DM-39	Hamlet Mine	446.5	431.8	164	8.67	BDL	5.68
DM-40	Esmerelda Mine	5	BDL	24.4	1.72	BDL	1.55
DM-41	Little Maud Mine	11.5	BDL	23.3	4.02	2.08	7.04
DM-42	Progressive Mine	57.5	61	46	2.48	BDL	2.76
DM-43	Silver Star Mine	28.5	11.4	110	2.61	BDL	5.1
DM-44	Hidden Treasure Mine	23.6	17.9	64	5.49	BDL	4.14
DM-45	Old Hundred Mine	113	104.7	101	3.46	BDL	3.96
DM-46	Smuggler Mine	563.5	615.7	51.9	8.32	BDL	4.34
DM-47	Emma Mine	8.9	6	134	7.29	BDL	4.45
DM-49	Oyama Tunnel	20.4	17.5	80.6	9.49	BDL	8.26
DM-50	Unknown Draining Mine near top of Stony Pass	11	11.1	27.3	2.81	BDL	1.5
DM-51	Pride of the West Mine	1985	1883	66.3	4.37	BDL	1.29
DM-52	Green Mountain Mine	1113	1303	47.4	2.25	BDL	1.63
DM-53	Innis Tunnel	140.5	147.2	51.8	2.48	BDL	1.57
DM-54	Bradley Tunnel	1599	1712	49.6	3.07	BDL	0.84
DM-55	Shenandoah Dives Mine	219.8	205.1	14.5	0.6	0.5	0.32
DM-56	Little Nation Mine	578.5	638.2	95.6	6.51	BDL	3.64
DM-57	Valley Forge Mine	19.2	28.5	37.3	2.08	BDL	1.95
DM-58	Ezra R Mine	137.5	130.6	68.7	0.96	BDL	2.25
DM-59	Solomon Mine	110.2	99.9	21.3	0.88	BDL	0.8

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Data

Site #	Description	Tot.Zn	Diss. Zn	Diss. Ca	Diss. Mg	Diss. K	Diss. Na
		ug/l	mg/l	mg/l	mg/l	mg/l	mg/l
DM-60	Black Prince Mine	17.4	12.4	13.4	0.37	0.64	0.29
DM-61	Upper Iowa Mine	5693	5558	2.08	0.44	0.54	0.15
DM-62	Iowa Mine	456.6	379.3	2.13	0.17	0.38	0.07
DM-63	Royal Tiger Mine	11420	11260	33.8	7.47	0.75	0.67
DM-64	Aspen Mine	1430	1574	130	3.16	BDL	3.35
DM-65	Blair Mountain Tunnel	87.6	69.3	182	3.05	BDL	5.11
DM-66	Last Chance Mine	43.1	70.4	46.8	2.48	BDL	2.74
DM-67	Mighty Monarch Mine	768	898.1	68.4	4.86	BDL	3.46
DM-68	Kitti Mack Mine	1479	1322	41.6	3.56	BDL	2.97
DM-69	Ransom Mine	259	294.2	225	7.77	BDL	4.98
DM-71	Queen of Maggie Mine	18.8	40.5	21.6	6.14	BDL	1.48
DM-72	Unknown Draining mine in lower Minnie Gulch	92.4	113.9	86.6	9.54	2.23	5.41
DM-73	Little Casino Mine	667.8	431.7	63.2	10.4	BDL	5.13
DM-74	Midway Tunnel	42.5	44	252	6.75	BDL	8.73
DM-76	Pittsburg Tunnel/Malachite Falls	976.7	1040	60.9	12	BDL	2.03
DM-77	Jess Mine	97	92.4	60.9	3.06	BDL	2.3
DM-78	Argentine Tunnel	34	45.2	69.2	2.19	BDL	3.12
DM-79	Iowa Mine - Southern Adit	4357	4342	6.62	0.53	0.39	0.15
DM-80	Duplicate of DM-77	101.8	94.6	61.4	3.06	BDL	2.3
DM-81	Duplicate if DM-43	11.4	15.2	112	2.68	BDL	5.35
ARD-1	Acidic drainage from Ben Franklin Waste Pile	4146	4357	19.4	518.4	BDL	0.53
ARD-2	Acidic drainage from Howardsville Tails	6856	7510	70.7	7.48	3	2.67
ARD-3	Seepage near Silverton Lakes Campground	7491	8314	153	13	5.21	4.82
ARD-4	Seepage south of Silverton Lakes Campground	2171	2434	297	12.6	3.92	6.99
ARD-5	Duplicate of ARD-2	6757	7532	71.1	7.54	2.89	2.68
A-72	Animas Gage	268	187	19.3	1.46	BDL	0.92
A-68	Animas above Cement Creek	297.8	224.7	17.5	1.27	BDL	0.79
M-34	Mineral Creek Gage	90.5	54.3	17.1	1.41	BDL	0.95
C-48	Cement Creek Gage	584.9	576.7	29.1	2.19	BDL	1.02

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Data

Site #	Description	Hardness	Flouride	Cl	SO4	Si
		mg/l CaCO3	mg/l	mg/l	mg/l	mg/l
UA-12	Animas above Eureka Confluence	35.2	BDL	BDL	21.5	3.03
LA-1	Animas below Eureka Confluence	35.1	BDL	BDL	21.6	2.45
LA-2	Animas above Minnie Confluence	48.8	0.3	BDL	34.2	4.56
LA-3	Animas below Maggie Confluence	46.2	0.24	BDL	26.8	4.26
LA-4	Animas above Howardsville Tails	49.9	0.28	BDL	29.4	4.53
LA-5	Animas below Cunningham	46.3	0.2	BDL	22.8	3.97
LA-6	Animas above Arrastra	50	0.25	BDL	25.6	4.31
LA-7	Animas above Boulder	47.8	0.21	BDL	23.4	4.07
LA-8	Animas below Boulder Creek	48.9	0.23	BDL	25	4.19
LA-9	Animas below Mayflower Tails	48.8	0.23	BDL	24.8	4.21
EG-0	Duplicate of EG-2A	BDL	0.6	BDL	78.7	5.08
EG-2A	Eureka Gulch above Sunnyside	82.8	BDL	BDL	18.4	3.09
EG-1	Eureka Gulch Headwaters	47	0.61	BDL	77.5	5
EG-3A	Eureka Gulch below Headwaters Confluence	57.1	0.37	BDL	48.7	3.82
EG-4	Eureka Gulch above Confluence	54.6	0.3	BDL	43.5	3.58
EG-5	Eureka Gulch below Tunnel	59.5	0.22	BDL	39.4	3.6
EG-6	Eureka Gulch below Terry Tunnel	46	BDL	BDL	29.1	3.38
EG-7	Eureka Gulch above South Fork	46.9	BDL	BDL	27.1	2.76
EG-8	South Fork above Eureka Gulch	44.3	BDL	BDL	23.9	3.13
EG-9	Eureka Gulch below South Fork	44.4	BDL	BDL	25	3.18
EG-10	Eureka Gulch above Animas	47.6	BDL	BDL	28.3	3.78
MI-1	Minnie Gulch above Esmerelda	34.4	BDL	BDL	3.4	2.76
MI-2	Minnie Gulch below Esmerelda	36.2	BDL	BDL	3.7	2.84
MI-3	Minnie Gulch above Tributary	41.6	BDL	BDL	8.9	3.13
MI-4	Tributary containing Kitti Mack	46.1	BDL	BDL	14.2	3.5
MI-5	Minnie Gulch below Tributary	43.1	BDL	BDL	10	3.33
MI-6	Minnie Gulch above Animas	43.9	BDL	BDL	13.2	4.32
MA-1	Maggie Gulch above Draining Mine	27.9	BDL	BDL	7.8	2.22
MA-2	Maggie Gulch below Upper Mines	28.3	BDL	BDL	9	2.42
MA-3	Cryatal Lake Tributary	34.1	BDL	BDL	8.1	2.31
MA-4	Maggie Gulch above Little Maud	28.5	BDL	BDL	5.9	2.53
MA-5	Maggie Gulch below Little Maud	31.9	BDL	BDL	7	2.82
MA-6	Maggie Gulch above Animas		BDL	BDL	14	2.87
CU-1	Cunningham Gulch below Spencer Creek	22	BDL	BDL	2.4	2.14
CU-2	Cunningham Gulch above Royal Tiger	23.7	BDL	BDL	2	2.19
CU-3	Cunningham Gulch below Highland Mary Tails	25.3	BDL	BDL	BDL	2.33
CU-4	Cunningham Gulch below Dives Creek	25.4	BDL	BDL	3.1	2.25
CU-5	Cunningham Gulch above Stony Gulch	30.1	BDL	BDL	4.8	2.5
CU-6	Cunningham Gulch below Stony Gulch	36.4	BDL	BDL	9.2	2.7
CU-7	Cunningham Gulch above Animas	37.9	BDL	BDL	9.4	2.99
RG-1	Rocky Gulch below Buffalo Boy	160	BDL	BDL	114	8.04
RG-1	Rocky Gulch below Buffalo Boy	90.7	BDL	BDL	71.5	5.06
RG-2	Rein Gulch above waste piles	31.2	BDL	BDL	6.1	2.48
RG-3	Rein Gulch below waste piles	35.6	BDL	BDL	7.8	3.33
RG-3A	Rein Gulch above Rocky Gulch	34.3	BDL	BDL	7.7	3.07
RG-4	Rocky Gulch below Rein Gulch	48.6	BDL	BDL	18.1	3.7
RG-5	Duplicate of RG-3	34.9	BDL	BDL	7.9	3.09
SG-1	Stony Gulch headwaters	8.23	BDL	BDL	BDL	BDL
SG-2	Stony Gulch below draining mines	42.4	BDL	BDL	15	2.14
SG-3	Stony Gulch above Cunningham Gulch	48.7	BDL	BDL	15.9	3.07
LG-1	Little Giant headwaters (main stream)	24.4	BDL	BDL	2.6	BDL
LG-2	Little Giant below lakes (main stream)	23.2	BDL	BDL	3.3	1.17

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

MINING Environmental MANAGEMENT

PCBs, mining and water pollution

The presence of electrical equipment containing PCBs in underground mines has been documented during US Environmental Protection Agency (EPA), Region 8, mine inspections conducted over the last 20 years. PCB-containing equipment may be found in mines throughout the world because electrical systems in mines follow the same general patterns as any other industry. The abandonment of this equipment underground is likely to cause worldwide ground water contamination.

Polychlorinated biphenyls (PCBs) are a group of 209 man-made structurally related chemicals manufactured in the US from 1929 until 1977 when manufacture was voluntarily discontinued. In 1978, manufacture was prohibited and use and disposal closely regulated by the PCB regulations written by EPA, as required under Section 6(e), of the Toxic Substances Control Act (TSCA). TSCA regulates the manufacture and use of industrial chemicals, including the disposal of PCBs. It was enacted in 1976 after the discovery that PCBs had become a ubiquitous environmental contaminant that had been detected in air, water, soils, and biosystems worldwide where they threatened human health and the environment.

Despite the fact that manufacture has been prohibited in the US and many other countries, PCBs are still authorised by the PCB regulations for use in electrical equipment, primarily as dielectric fluids (or contaminants in dielectric fluids) in electrical equipment. The mining industry has been an extensive user of PCB-containing electrical equipment, and some continues to be abandoned underground. The major PCB use today is as a dielectric in electrical equipment servicing industries with large electrical power distribution and consumption where they continue to pose potential threats to the environment in the event of releases. This threat is particularly prevalent in mining because mines generally penetrate the water table. When PCBs are spilled or PCB equipment is abandoned underground, the PCBs can be expected eventually to be released into the ground water with no possibility of source retrieval. This can result in water pollution for which there may be no solution.

76-gallon PCB transformers (the cylindrical objects with cooling fins and PCB marks) on the 20 level of the Eagle Mine at Gilman, Colorado during an EPA removal due to abandonment and flooding.

HEALTH AND ENVIRONMENTAL

PCBs are among the 12 chemicals designated as persistent organic pollutants (POPs) that are targeted by the UN Stockholm Convention of May 2001, when 90 nations, the US, and the EC agreed to reduce or eliminate PCB production, use, and/or release. The convention has been signed but not yet ratified by the US. POPs are highly stable toxic organic compounds that persist in the environment, and accumulate in fat. PCBs are one of several truly global environmental pollutants. They have been found in low, but measurable levels, in nearly all marine plant and animal specimens, fish, mammals, birds, bird eggs, and humans. Human exposure to PCBs occurs primarily via low-level food contamination. All US residents have measurable PCBs in their fatty tissues[1].

There is no longer any doubt that PCBs present a threat to human health and the environment even at extremely low levels. They can enter the body through the lungs, the gastrointestinal tract, and the skin. Once ingested, inhaled, or absorbed into the body, PCBs are circulated throughout the body in the blood and are stored in fatty tissue and several organs, including the liver, kidneys, lungs, adrenal glands, brain, heart, and skin. Once in the body, PCBs can wreak havoc[2]. PCBs have become so widely distributed that the US Food and Drug Administration (FDA) found it necessary to issue tolerances for PCBs in cardboard, food packaging, soap, fish, meat, milk, and eggs. PCBs are highly concentrated in fatty tissue of organisms even when exposure levels are very low. Fish can bioconcentrate PCBs in their tissues by a factor as high as 740,000 times the PCB concentration of the water they inhabit[3]. This does not include PCBs from consumption of contaminated invertebrates. Rainbow trout that consume contaminated invertebrates have been shown to bio-accumulate PCBs by a factor of 10,000,000 in Lake Ontario[4]. This process of bio-accumulation has resulted in the closure of fisheries in the Great Lakes and the issuance of PCB sport-fisheries advisories for fish consumption in

100% of the Great Lakes and in 71% of the coastal waters along with 28 % of the lakes and 14% of the river miles of the lower 48 states.[5]

The oceans are the largest 'sink' of PCBs, the consequences of which remain unknown. The median bioconcentration factors for PCBs from water into phytoplankton are between 10,000 and 1,000,000[6] but it is seldom noted that phytoplankton are the basis of the ocean food chain and are a major source of atmospheric oxygen[7].

In addition to being classified by the EPA as probable human carcinogens[8], PCBs have been demonstrated to impair memory and intellectual development in children[9] and adults[10] and to cause human liver disorders, chloracne, and reproductive problems. PCBs are endocrine disruptors[11], and are suspected to cause decreases in human sperm counts, increases in birth defects in reproductive organs, as well as increases in breast, prostate, and testicular cancers[12].

PCB PROPERTIES AND USES

PCBs were manufactured in the US under the trade name Aroclor until manufacture was discontinued in 1977. Aroclors are essentially different chlorine concentration fractions of PCBs that have different properties. Two of the most common are Aroclor 1254 and Aroclor 1260. These Aroclors were mixed with solvents, for example trichlorobenzene, and sold under the trade names that appear on the manufacturer nameplates of PCB electrical equipment. Some of the more common PCB dielectric trade names are Pyranol, Inerteen, Elemex, and Chlorextol. There are many others. PCBs in the dielectrics of transformers, voltage regulators (variable voltage transformers), capacitors, and fluorescent light ballasts are the major industrial uses today.

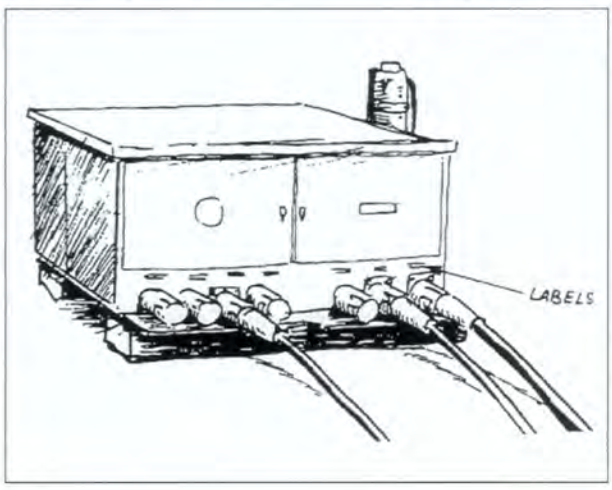
The physical and chemical properties that make PCBs valuable commercially also make them environmentally detrimental. PCBs are very stable compounds which resist breakdown from high temperatures and aging. Once in the environment PCBs persist for long periods of time: they can easily cycle between air, water, and soil[13]; they are orders of magnitude more fat soluble than water soluble and tend to concentrate in fatty tissues.

Mine Power Center Commonly Containing Capacitors

MINES AND PCBS

It should be emphasised that surface mines and the attendant crushing and milling facilities of both surface and underground mines may use PCB-containing electrical equipment. Depending on the cost effectiveness of removal and salvage, mines may be abandoned without removing any of the underground mining, haulage, hoisting, or electrical equipment. It is believed by experts in the mining industry that substantial quantities of PCB-containing electrical equipment were abandoned underground before the advent of the PCB regulations in 1978[14].

Underground mines are emphasised here because abandoned PCB-containing equipment is likely to cause water pollution that can affect the environment and the health of downstream fish, and wildlife, and human populations. PCBs are most likely to be in transformers, as shown in Figure 1, drums of used transformer oils, capacitors and fluorescent light ballasts. Transformers may be grouped in permanent substations, located singly, or mounted on mine cars that can be transported throughout the working areas of the mine. Capacitors are generally found in locations similar to those of transformers. PCB-containing capacitors have been found in electric locomotives. In coal mines, capacitors are often in wheel or skid-mounted power centres. The regulations require these items be identified by PCB marks (or labels) if they contain 500 ppm (0.05%) or more PCBs and they are termed PCB transformers or capacitors.



Mine Power Center Commonly Containing Capacitors

Large mines can require hundreds of electrical substations and/or power centres that may harbour PCB-containing electrical equipment. However, one should not get the impression that only large mines have the problem.

It is also important to keep in mind that PCBs are not the only regulated man-made chemicals used underground. There are other chemicals, the release of which may pose environmental threats. Underground repair facilities, like any other repair facilities, may use solvents for cleaning and degreasing equipment. Two examples are trichloroethane and methylene chloride. The disposal of these solvents is regulated under the Resource Conservation and Recovery Act (RCRA), which regulates the generation, handling, and disposal of hazardous wastes, but not PCBs. The release of these solvents can pose their own threats of ground water contamination. In addition, released solvents can mobilise PCBs, facilitating transport into ground and surface waters. Some mines maintain their own landfills and scrap yards which have been shown to be repositories of improperly disposed PCBs and RCRA solvents.

IS ABANDONED PCB-CONTAINING EQUIPMENT REALLY A PROBLEM?

Concerns have been expressed for the safety of inspectors underground. This issue will be further discussed in the section on experience with underground mine inspections. To illustrate this concern, the following statement defines a hypothetical series of events that has been used to explain why PCB-containing equipment underground is not a problem, so that inspections will be unnecessary. Each of these events that could result in release of PCBs is said to be unlikely when, in fact, all of them are likely to happen.

Some people argue that even if some electrical equipment abandoned in mines contains PCBs, the electrical carcass (spent container) will not rupture and the PCBs will not be released. And then, even if the PCBs were released in the mine, the liquid containing the PCBs would just sink to the bottom of the mine shaft. And then, even if the liquid did escape, the dilution ratio would be so great there would be basically no impact.

The following addresses three items from the above to show why the claims are incorrect.

(1) *The electrical carcass (spent container) will not rupture and the PCBs will not be released.* It is common knowledge that most abandoned mines flood and cave in. Abandoned electrical equipment will be corroded by acid mine waters and/or crushed outright.

(2) *...even if the PCBs were released in the mine, the liquid containing the PCBs would just sink to the bottom of the shaft.* Mines do not consist of shafts. Shafts serve as entries from the surface leading to other active transport or mining areas and constitute insignificant portions of mines in comparison to the mining areas. Mining typically results in extensive areas of highly fractured rock. Fracture produces additional avenues through which ground water from disrupted water tables can be expected to percolate throughout rock within and surrounding the entire mining area. PCB trade name dielectric fluids are heavier than water and will sink, while mineral oil dielectrics containing PCBs will float to the water surface. In either case, ground and surface waters will be contaminated.

(3) *...even if the liquid did escape, the dilution ratio would be so great there would be basically no impact.* Hydrologists cannot predict ground water flow patterns or PCB dilution rates because of the fracture caused by mining operations and the unknown ground water pathways[15]. Regarding dilution impact, PCB water solubility is in the parts per billion (ppb) range. At the bioconcentration factor of 740,000 mentioned before, rainbow trout inhabiting water containing more than 18 parts per trillion (ppt) PCB can be expected to violate the FDA standard of 2 ppm for fish consumption[16]. This demonstrates that minute quantities of PCBs dissolved in water alone, and without taking into account the consumption of contaminated invertebrates, can get into the food chain in significant concentrations. Further, 0.064 parts per trillion is the EPA recommened surface water human health criterion for waters inhabited by fish for human consumption. Consumption of contaminated fish is one of the major routes of human exposure[17].

EXPERIENCE WITH INSPECTIONS

EPA Region 8 encompasses six states: Colorado, Montana, North and South Dakota, Utah, and Wyoming. This area contains a substantial portion of the underground hard rock and coal mines in the country. Region 8 experiences should serve as an indicator for other agencies and other countries with mining industries. The Region 8 underground mine inspection programme was begun with the promulgation of the PCB regulations in 1978. Within the Region, 75 mines have been inspected during the last 20 years, and 33 government-issued administrative complaints resulting in penalties for violations of the PCB regulations have been issued. This means that 44% of the mines inspected were in violation of the PCB regulations.

Inspections were focused underground as a first priority because of the potential for abandonment of PCB-containing electrical equipment and ground water contamination, so the majority of the inspections and administrative complaints involved underground mines. However, surface mines should not be overlooked.

Whenever inspectors entered a district without a previous EPA enforcement presence they found a lack of awareness of the dangers and the PCB regulations. They found a similar lack of awareness by other government agencies that had authority over PCBs.

Inspections revealed PCB-containing electrical equipment in just about every conceivable activity: in draglines in open-pit coal mines, power shovels in open-pit metal mines, and 'bone yards' where transformers and capacitors were commonly destined for disposal. They were found in underground substations, pump stations, mine power centres and electric locos. PCB-containing electrical equipment was also found in surface facilities including mills, smelters, metal refineries, breaker houses, and transfer facilities.

Region 8 is confident that if MSHA deems mines safe for miners to work in, then they are safe for EPA inspectors to enter. Inspections historically have included only working mines and mines on standby to ensure safe entry. These inspections have been conducted with the intention of maintaining enforcement and to help prevent abandonment of PCB-containing equipment underground by persons unacquainted with the regulations.

Abandoned mines have not been part of the inspection programme because of inaccessibility, flooding, cave-ins, and very real hazards that will not be dealt with here. However, it appears the major water contamination involving PCBs and mines in the future will come from PCB-containing equipment abandoned underground. An inspection programme could help prevent future abandonment.

Looking up at PCB Marked Capacitor on the left (graphic below)

Some examples will illustrate the kinds of problems that are likely to be encountered. For instance, EPA has reason to believe that PCB-containing transformers were buried under waste rock in an underground coal mine directly above a burning coal seam. Because of 'bad air' in this location and hazardous conditions preventing the use of heavy equipment to remove the waste rock, retrieval of the transformers was not attempted.

An inspection in a previously uninspected district following an administrative complaint resulted in the burial of transformers by a different party at a nearby mine site. Upon exhumation by EPA, the transformers were found to contain no PCBs. The mine management, ignorant of the regulations and fearing an inspection and potential enforcement action, had tested the dielectrics for PCBs, but had been unable to understand the field test results and buried unregulated transformers!

In 1984, Region 8 conducted an Immediate Removal Action, under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA)[18] (or the 'Superfund' law) in which the author participated in the Eagle mine in Colorado. CERCLA regulates cleanup of uncontrolled or abandoned hazardous-waste sites. The mine consisted of a 122-m vertical shaft from the surface to the 16 level, the main haulage level. From the 16 level there are two inclines, the 1620 and the 1623, both servicing the 20 level. Levels were 30 m vertically apart. Below the 20 level, the mine was flooded to the bottom at the 28 level. The mine consisted of about 160 km of drifts[19], most of which were inaccessible due to flooding, bad air, and an active fire encompassing the 1623 incline. The entire mill with PCB-containing electrical equipment was underground, so that only concentrates destined for a smelter and tailings left the mine. The owner had been advised in writing by EPA to remove the PCB-containing electrical equipment from areas of the mine in danger of flooding before funds became insufficient to maintain the pump station at the 20 level. No action had been taken when the electrical service was discontinued. EPA assumed the electrical bills and removed three 76-gallon Pyranol (PCB) transformers and 27 large Pyranol capacitors during a three-day operation. Three previously drained 76-gallon Pyranol transformers were left at the 1623 incline substation because of the hazards and cost of removal from an active fire area. Whether or not PCB-containing equipment remains in the accessible portions of the mine and below the 20 level is unknown. This lack of information is typical of abandoned or flooded portions of mines. Although this operation may appear hazardous, the risks were known and controlled, and MSHA inspectors were present throughout the entire removal. If there had not been an EPA inspection, the PCB transformers and capacitors would have been undetected, and today would be under more than 215 m of water that drains into the Colorado River.

PCB MANAGEMENT AND DISPOSAL

The first task is to inventory the PCB-containing electrical electrical equipment to identify it and its location. Equipment should be marked so that it is easily recognisable, protected, and not inadvertently disposed. Written records are essential. Depending on finances, the second task is to replace the equipment and remove it to safe storage according to government regulations. The third task is disposal. It is of utmost importance to keep in mind the dangers and persistence of PCBs in the environment when deciding on storage locations and disposal. Open burning can convert PCBs to even more hazardous dioxins. Disposal of PCB-containing dielectrics in landfills can contaminate ground water. PCB-containing dielectrics require specialised disposal techniques that can destroy the PCB molecule. In some countries there are no adequate disposal facilities so that long term storage will be necessary.

CONCLUSION

It is apparent from the extent of large underground mines that there are opportunities for illegal and improper disposal of hazardous wastes in workings that are so vast that it is unlikely the wastes could ever be located. Many mines, regardless of size, present these opportunities. These possibilities that can cause irremediable harm should be guarded against. The release of PCBs into the environment from end-use products not yet mentioned (such as electrical cable insulation, plastics, caulks, lubricants, paints, and printing inks), uncontrolled disposal, landfills, and underground mines where they were disposed of prior to the PCB regulations can be expected to add to the PCB environmental burden with unforeseeable consequences for the future. PCBs released underground from abandoned equipment may cause water contamination in mining districts throughout the world which can introduce PCBs into the environment and human food chain regardless of the location of their release. Routine underground mine inspections by a government authority having jurisdiction over PCBs would help prevent abandonment. There is no legitimate safety concern that should prevent such inspections. Both education and enforcement would have their places here. Whenever hazardous-waste cleanups and environmental restoration take place, the potential presence of PCBs should be considered.

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The views in this article express the opinions of the author and do not necessarily reflect EPA policies.

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Animas River Below Eureka
High-Flow Data

Site #	Description	Hardness	Flouride	Cl	SO4	Si
		mg/l CaCO3	mg/l	mg/l	mg/l	mg/l
LG-3	Little Giant below Big Giant Mine (second stream)	34.2	BDL	BDL	9.5	3.43
LG-4	Little Giant above Arrastra (main stream)	35.5	BDL	BDL	8	3.16
LG-5	Little Giant above Arrastra (second stream)	23	BDL	BDL	4.5	1.82
LG-5	Little Giant above Arrastra (second stream)	23.9	BDL	BDL	5.4	1.72
LG-6	Little Giant above debris fan (main stream)	29.1	BDL	BDL	6.7	5.4
LG-6	Little Giant above debris fan (main stream)	36.6	BDL	BDL	10.2	5.08
LG-7	Duplicate of LG-4	156	0.33	BDL	10.6	8.42
LG-7	Duplicate of LG-2	21.3	BDL	BDL	2.4	1.17
AB-1	Arrastra above Silver Lake	30.7	BDL	BDL	BDL	1.34
AB-2	Arrastra below Silver Lake	20.6	BDL	BDL	6.3	1.34
AB-4	Arrastra below Woodchuck	44.7	BDL	BDL	14	2.87
AB-4	Arrastra below Woodchuck	56.5	BDL	BDL	20.4	3.43
AB-5	Arrastra below Little Giant	44.5	BDL	BDL	14.3	2.99
AB-6	Arrastra above Animas	44.6	BDL	BDL	14.7	3.21
AB-7	Duplicate of AB-4	40.8	BDL	BDL	14.3	2.98
AB-8	Duplicate of AB-2	20.3	BDL	BDL	6.3	1.38
WB-2	Woodchuck before flowing into Unity Tunnel	15.4	BDL	BDL	BDL	1.15
WB-3	Drainage from lower portal of Unity Tunnel	87.8	BDL	BDL	35.8	5.08
DB-1	Dives Basin above Cunningham Gulch	58.4	BDL	BDL	27.7	2.41
DB-1	Dives Basin above Cunningham Gulch	47	BDL	BDL	13.5	2.39
HG-1	Hematite Gulch above Animas	45.6	BDL	BDL	13	3.55
BG-1	Boulder Gulch above Animas	29.8	BDL	BDL	8.3	3.07
BG-2	Boulder Gulch above Mayflower Tailings	28.9	BDL	BDL	7.5	3.01
BL-1	Blair Gulch above Animas	57.6	0.22	BDL	32	6.45
SW-1	Swansea Gulch above Animas	29.1	BDL	BDL	8.8	3.21
DM-32	Ben Franklin Prospect	144	0.29	BDL	135	4.74
DM-33	Bavarian Mine	34.1	BDL	BDL	37.5	5.08
DM-34	Draining mine above South Fork	661	1.73	BDL	582	29.1
DM-35	Moonbeam Mine	231	1.77	BDL	133	13.2
DM-36	Auburn Tunnel	415	1.58	BDL	328	19.4
DM-37	Unknown Draining Mine in Aspens	285	1.01	BDL	196	16.9
DM-38	Unknown Draining Mine across from Maggie Gulch	250	0.98	BDL	189	16.2
DM-39	Hamlet Mine	445	2.48	BDL	359	18.4
DM-40	Esmerelda Mine	68	BDL	BDL	18.3	3.82
DM-41	Little Maud Mine	74.7	0.37	BDL	19.2	2.27
DM-42	Progressive Mine	125	0.72	BDL	66.7	9.62
DM-43	Silver Star Mine	285	1.03	BDL	230	14.7
DM-44	Hidden Treasure Mine	182	1.74	BDL	94	18.7
DM-45	Old Hundred Mine	266	1.14	BDL	194	13.9
DM-46	Smuggler Mine	164	1.06	BDL	141	24
DM-47	Emma Mine	365	0.81	BDL	265	16.2
DM-49	Oyama Tunnel	240	0.47	BDL	150	7.39
DM-50	Unknown Draining Mine near top of Stony Pass	79.7	BDL	BDL	45.7	3.03
DM-51	Pride of the West Mine	184	BDL	BDL	96.8	5.24
DM-52	Green Mountain Mine	128	BDL	BDL	41.8	5.19
DM-53	Innis Tunnel	140	BDL	BDL	57.2	5
DM-54	Bradley Tunnel	136	0.24	BDL	114	5.63
DM-55	Shenandoah Dives Mine	38.7	BDL	BDL	12.9	2.14
DM-56	Little Nation Mine	266	1.32	BDL	244	22.2
DM-57	Valley Forge Mine	102	0.52	BDL	30.5	7.63
DM-58	Ezra R Mine	175	0.4	BDL	103	9.23
DM-59	Solomon Mine	56.8	BDL	BDL	12.2	4.4

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Data

Site #	Description	Hardness	Flouride	Cl	SO4	Si
		mg/l CaCO3	mg/l	mg/l	mg/l	mg/l
DM-60	Black Prince Mine	35	BDL	BDL	4.5	2.1
DM-61	Upper Iowa Mine	7.01	BDL	BDL	21.6	2.82
DM-62	Iowa Mine	6.02	BDL	BDL	3.4	BDL
DM-63	Royal Tiger Mine	115	0.56	BDL	198	10.2
DM-64	Aspen Mine	338	0.91	BDL	288	14.3
DM-65	Blair Mountain Tunnel	467	1.1	BDL	420	14.1
DM-66	Last Chance Mine	127	0.41	0.53	84.7	13
DM-67	Mighty Monarch Mine	191	0.96	0.62	120	15
DM-68	Kitti Mack Mine	119	0.27	BDL	55.8	5.4
DM-69	Ransom Mine	594	2.21	BDL	503	18.6
DM-71	Queen of Maggie Mine	79.2	0.26	BDL	25.7	5.97
DM-72	Unknown Draining mine in lower Minnie Gulch	256	0.99	BDL	257	42.1
DM-73	Little Casino Mine	201	3.16	BDL	101	16.2
DM-74	Midway Tunnel	657	1.7	BDL	646	24.8
DM-76	Pittsburg Tunnel/Malachite Falls	201	0.55	1.38	172	13.7
DM-77	Jess Mine	165	0.71	BDL	121	18
DM-78	Argentine Tunnel	182	0.37	BDL	118	8.57
DM-79	Iowa Mine - Southern Adit	18.7	0.27	BDL	21.3	2.31
DM-80	Duplicate of DM-77	166	0.72	BDL	121	18.9
DM-81	Duplicate if DM-43	291	1.03	BDL	231	15.4
ARD-1	Acidic drainage from Ben Franklin Waste Pile	56.8	0.49	BDL	108	5.66
ARD-2	Acidic drainage from Howardsville Tails	207	2.32	3.18	243	12.8
ARD-3	Seepage near Silverton Lakes Campground	436	3.87	1.32	549	17
ARD-4	Seepage south of Silverton Lakes Campground	793	4.55	0.56	251	25.5
ARD-5	Duplicate of ARD-2	209	2.31	3.19	243	12.7
A-72	Animas Gage	54.2	0.2	BDL	34.8	5.68
A-68	Animas above Cement Creek	48.9	0.22	BDL	25	4.38
M-34	Mineral Creek Gage	48.5	BDL	BDL	28.8	6.16
C-48	Cement Creek Gage	81.7	0.41	BDL	82.7	10.1

Flow Easitmated for Stations LA-1, CU-1, CU-2, CU-3, CU-5, CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Tot. Ag	Diss. Ag	Tot. Al	Diss. Al	Tot. As
		g/day	g/day	g/day	g/day	g/day
UA-12	Animas above Eureka Confluence	BDL	BDL	231495.17	BDL	931.87
LA-1	Animas below Eureka Confluence	BDL	BDL	249097.58	46658.76	2859.73
LA-2	Animas above Minnie Confluence	ND	ND	ND	ND	ND
LA-3	Animas below Maggie Confluence	ND	ND	ND	ND	ND
LA-4	Animas above Howardsville Tails	ND	ND	ND	ND	ND
LA-5	Animas below Cunningham	BDL	BDL	1441297.45	BDL	BDL
LA-6	Animas above Arrastra	ND	ND	ND	ND	ND
LA-7	Animas above Boulder	BDL	BDL	1260209.75	BDL	2830.06
LA-8	Animas below Boulder Creek	ND	ND	ND	ND	ND
LA-9	Animas below Mayflower Tails	BDL	BDL	810674.94	77949.51	BDL
EG-0	Duplicate of EG-2A	BDL	BDL	1861.54	BDL	BDL
EG-2A	Eureka Gulch above Sunnyside	BDL	BDL	2291.80	2660.60	BDL
EG-1	Eureka Gulch Headwaters	BDL	BDL	BDL	BDL	BDL
EG-3A	Eureka Gulch below Headwaters Confluence	BDL	BDL	6776.05	2800.77	BDL
EG-4	Eureka Gulch above Confluence	BDL	BDL	6007.19	788.96	BDL
EG-5	Eureka Gulch below Tunnel	BDL	BDL	4441.52	3563.55	BDL
EG-6	Eureka Gulch below Terry Tunnel	BDL	BDL	26526.25	6699.46	BDL
EG-7	Eureka Gulch above South Fork	BDL	BDL	10318.85	5646.16	BDL
EG-8	South Fork above Eureka Gulch	BDL	BDL	4081.78	6555.58	BDL
EG-9	Eureka Gulch below South Fork	BDL	BDL	22385.60	16446.56	BDL
EG-10	Eureka Gulch above Animas	BDL	BDL	BDL	18085.23	BDL
MI-1	Minnie Gulch above Esmerelda	BDL	BDL	13846.35	BDL	BDL
MI-2	Minnie Gulch below Esmerelda	BDL	BDL	13231.45	BDL	BDL
MI-3	Minnie Gulch above Tributary	BDL	BDL	19098.71	BDL	BDL
MI-4	Tributary containing Kitti Mack	BDL	BDL	1218.95	BDL	BDL
MI-5	Minnie Gulch below Tributary	BDL	BDL	18656.89	BDL	BDL
MI-6	Minnie Gulch above Animas	BDL	BDL	56468.82	BDL	BDL
MA-1	Maggie Gulch above Draining Mine	BDL	BDL	90777.22	BDL	BDL
MA-2	Maggie Gulch below Upper Mines	BDL	BDL	170186.12	BDL	186.92
MA-3	Cryatal Lake Tributary	BDL	BDL	7084.75	BDL	BDL
MA-4	Maggie Gulch above Little Maud	38.52	BDL	918586.66	BDL	BDL
MA-5	Maggie Gulch below Little Maud	BDL	BDL	490833.47	BDL	BDL
MA-6	Maggie Gulch above Animas	BDL	BDL	BDL	BDL	BDL
CU-1	Cunningham Gulch below Spencer Creek	BDL	BDL	385701.93	BDL	BDL
CU-2	Cunningham Gulch above Royal Tiger	BDL	BDL	485212.54	BDL	BDL
CU-3	Cunningham Gulch below Highland Mary Tails	BDL	BDL	323388.22	BDL	BDL
CU-4	Cunningham Gulch below Dives Creek	321.83	BDL	825057.59	BDL	1024.01
CU-5	Cunningham Gulch above Stony Gulch	65.17	BDL	380267.61	BDL	BDL
CU-6	Cunningham Gulch below Stony Gulch	BDL	BDL	280926.81	BDL	BDL
CU-7	Cunningham Gulch above Animas	126.41	BDL	1447970.94	BDL	BDL
RG-1	Rocky Gulch below Buffalo Boy	BDL	BDL	5.41	BDL	BDL
RG-1	Rocky Gulch below Buffalo Boy	BDL	BDL	970.11	161.35	6.74
RG-2	Rein Gulch above waste piles	BDL	BDL	2578.32	BDL	3.17
RG-3	Rein Gulch below waste piles	BDL	BDL	709.51	BDL	BDL
RG-3A	Rein Gulch above Rocky Gulch	BDL	BDL	905.90	BDL	BDL
RG-4	Rocky Gulch below Rein Gulch	BDL	BDL	15979.00	BDL	BDL
RG-5	Duplicate of RG-3	0.95	BDL	221.72	BDL	BDL
SG-1	Stony Gulch headwaters	BDL	BDL	88.78	BDL	BDL
SG-2	Stony Gulch below draining mines	BDL	BDL	30466.34	BDL	BDL
SG-3	Stony Gulch above Cunningham Gulch	BDL	BDL	100180.06	BDL	BDL
LG-1	Little Giant headwaters (main stream)	BDL	BDL	BDL	BDL	BDL
LG-2	Little Giant below lakes (main stream)	BDL	BDL	BDL	BDL	BDL

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Tot. Ag	Diss. Ag	Tot. Al	Diss. Al	Tot. As
		g/day	g/day	g/day	g/day	g/day
LG-3	Little Giant below Big Giant Mine (second stream)	BDL	BDL	BDL	BDL	BDL
LG-4	Little Giant above Arrastra (main stream)	BDL	BDL	BDL	BDL	BDL
LG-5	Little Giant above Arrastra (second stream)	BDL	BDL	BDL	BDL	BDL
LG-5	Little Giant above Arrastra (second stream)	0.22	BDL	BDL	BDL	BDL
LG-6	Little Giant above debris fan (main stream)	BDL	BDL	BDL	BDL	BDL
LG-6	Little Giant above debris fan (main stream)	BDL	BDL	BDL	BDL	BDL
LG-7	Duplicate of LG-4	0.15	BDL	1328.41	BDL	1.40
LG-7	Duplicate of LG-2	BDL	BDL	151.37	BDL	BDL
AB-1	Arrastra above Silver Lake	BDL	BDL	606.75	BDL	BDL
AB-2	Arrastra below Silver Lake	BDL	BDL	625.16	BDL	BDL
AB-4	Arrastra below Woodchuck	BDL	BDL	BDL	BDL	BDL
AB-4	Arrastra below Woodchuck	BDL	BDL	BDL	BDL	BDL
AB-5	Arrastra below Little Giant	BDL	BDL	BDL	BDL	BDL
AB-6	Arrastra above Animas	BDL	BDL	BDL	BDL	BDL
AB-7	Duplicate of AB-4	BDL	BDL	BDL	BDL	BDL
AB-8	Duplicate of AB-2	BDL	BDL	BDL	BDL	BDL
WB-2	Woodchuck before flowing into Unity Tunnel	BDL	BDL	BDL	BDL	BDL
WB-3	Drainage from lower portal of Unity Tunnel	BDL	BDL	BDL	BDL	BDL
DB-1	Dives Basin above Cunningham Gulch	BDL	BDL	BDL	BDL	BDL
DB-1	Dives Basin above Cunningham Gulch	3.48	BDL	1393.29	BDL	BDL
HG-1	Hematite Gulch above Animas	BDL	BDL	3034.48	BDL	BDL
BG-1	Boulder Gulch above Animas	15.95	BDL	9887.69	BDL	BDL
BG-2	Boulder Gulch above Mayflower Tailings	BDL	BDL	9967.43	BDL	BDL
BL-1	Blair Gulch above Animas	BDL	BDL	149.50	BDL	BDL
SW-1	Swansea Gulch above Animas	6.75	BDL	75969.26	BDL	40.48
DM-32	Ben Franklin Prospect	BDL	BDL	2328.99	2372.74	BDL
DM-33	Bavarian Mine	BDL	BDL	16.98	17.68	BDL
DM-34	Draining mine above South Fork	BDL	BDL	BDL	BDL	BDL
DM-35	Moonbeam Mine	BDL	BDL	29.70	14.85	0.27
DM-36	Auburn Tunnel	BDL	BDL	18.39	BDL	BDL
DM-37	Unknown Draining Mine in Aspens	BDL	BDL	BDL	BDL	BDL
DM-38	Unknown Draining Mine across from Maggie Gulch	BDL	BDL	BDL	BDL	BDL
DM-39	Hamlet Mine	BDL	BDL	BDL	BDL	1.54
DM-40	Esmerelda Mine	BDL	BDL	233.63	BDL	BDL
DM-41	Little Maud Mine	0.00	BDL	2.08	BDL	BDL
DM-42	Progressive Mine	BDL	BDL	BDL	BDL	BDL
DM-43	Silver Star Mine	BDL	BDL	BDL	BDL	BDL
DM-44	Hidden Treasure Mine	BDL	BDL	BDL	BDL	BDL
DM-45	Old Hundred Mine	BDL	BDL	BDL	BDL	3.34
DM-46	Smuggler Mine	BDL	BDL	14.31	2.37	BDL
DM-47	Emma Mine	BDL	BDL	BDL	BDL	BDL
DM-49	Oyama Tunnel	BDL	BDL	BDL	BDL	0.26
DM-50	Unknown Draining Mine near top of Stony Pass	BDL	BDL	7.65	BDL	0.07
DM-51	Pride of the West Mine	0.48	BDL	129.44	BDL	BDL
DM-52	Green Mountain Mine	BDL	BDL	BDL	BDL	BDL
DM-53	Innis Tunnel	BDL	BDL	BDL	BDL	BDL
DM-54	Bradley Tunnel	0.04	0.03	156.51	BDL	BDL
DM-55	Shenandoah Dives Mine	BDL	BDL	52.60	BDL	BDL
DM-56	Little Nation Mine	BDL	BDL	124.37	101.61	BDL
DM-57	Valley Forge Mine	BDL	BDL	182.44	BDL	BDL
DM-58	Ezra R Mine	BDL	BDL	BDL	BDL	BDL
DM-59	Solomon Mine	BDL	BDL	BDL	BDL	BDL

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Tot. Ag	Diss. Ag	Tot. Al	Diss. Al	Tot. As
		g/day	g/day	g/day	g/day	g/day
DM-60	Black Prince Mine	BDL	BDL	BDL	BDL	BDL
DM-61	Upper Iowa Mine	0.00	0.00	1.58	1.42	BDL
DM-62	Iowa Mine	0.10	BDL	269.69	BDL	BDL
DM-63	Royal Tiger Mine	0.08	BDL	2356.87	2409.81	BDL
DM-64	Aspen Mine	BDL	BDL	BDL	BDL	BDL
DM-65	Blair Mountain Tunnel	BDL	BDL	BDL	BDL	0.18
DM-66	Last Chance Mine	BDL	BDL	19.45	BDL	BDL
DM-67	Mighty Monarch Mine	BDL	BDL	BDL	BDL	BDL
DM-68	Kitti Mack Mine	BDL	BDL	140.42	BDL	BDL
DM-69	Ransom Mine	BDL	BDL	BDL	BDL	BDL
DM-71	Queen of Maggie Mine	BDL	BDL	BDL	BDL	0.12
DM-72	Unknown Draining mine in lower Minnie Gulch	BDL	BDL	27.32	34.36	BDL
DM-73	Little Casino Mine	BDL	BDL	0.23	BDL	BDL
DM-74	Midway Tunnel	BDL	BDL	BDL	BDL	BDL
DM-76	Pittsburg Tunnel/Malachite Falls	BDL	BDL	13.67	BDL	BDL
DM-77	Jess Mine	BDL	BDL	3.71	BDL	BDL
DM-78	Argentine Tunnel	BDL	BDL	BDL	BDL	BDL
DM-79	Iowa Mine - Southern Adit	BDL	BDL	22.01	7.37	BDL
DM-80	Duplicate of DM-77	BDL	BDL	4.57	BDL	BDL
DM-81	Duplicate if DM-43	BDL	BDL	BDL	BDL	0.92
ARD-1	Acidic drainage from Ben Franklin Waste Pile	0.27	0.11	837.02	844.82	0.48
ARD-2	Acidic drainage from Howardsville Tails	BDL	BDL	419.13	429.11	0.65
ARD-3	Seepage near Silverton Lakes Campground	0.02	BDL	147.95	143.56	0.32
ARD-4	Seepage south of Silverton Lakes Campground	BDL	BDL	354.35	378.22	0.45
ARD-5	Duplicate of ARD-2	BDL	BDL	401.52	411.50	0.59
A-72	Animas Gage	1114.61	BDL	7378690.03	BDL	7430.70
A-68	Animas above Cement Creek	BDL	BDL	774928.60	BDL	BDL
M-34	Mineral Creek Gage	BDL	BDL	3290496.18	74784.00	5384.45
C-48	Cement Creek Gage	83.16	BDL	1252408.88	324328.99	1081.10

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Diss. As	Tot. Ba	Diss. Ba	Tot. Be	Diss. Be
		g/day	g/day	g/day	g/day	g/day
UA-12	Animas above Eureka Confluence	BDL	4266.97	3972.69	BDL	BDL
LA-1	Animas below Eureka Confluence	BDL	6697.79	6095.74	BDL	BDL
LA-2	Animas above Minnie Confluence	ND	ND	ND	ND	ND
LA-3	Animas below Maggie Confluence	ND	ND	ND	ND	ND
LA-4	Animas above Howardsville Tails	ND	ND	ND	ND	ND
LA-5	Animas below Cunningham	BDL	36594.86	24446.56	BDL	BDL
LA-6	Animas above Arrastra	ND	ND	ND	ND	ND
LA-7	Animas above Boulder	BDL	37456.70	25470.55	BDL	BDL
LA-8	Animas below Boulder Creek	ND	ND	ND	ND	ND
LA-9	Animas below Mayflower Tails	BDL	39949.13	28061.82	BDL	BDL
EG-0	Duplicate of EG-2A	BDL	129.96	BDL	BDL	BDL
EG-2A	Eureka Gulch above Sunnyside	BDL	140.49	140.49	2291.80	BDL
EG-1	Eureka Gulch Headwaters	BDL	169.50	160.01	BDL	BDL
EG-3A	Eureka Gulch below Headwaters Confluence	BDL	668.57	614.36	BDL	BDL
EG-4	Eureka Gulch above Confluence	BDL	254.68	195.16	BDL	BDL
EG-5	Eureka Gulch below Tunnel	BDL	774.68	754.03	BDL	BDL
EG-6	Eureka Gulch below Terry Tunnel	BDL	1330.84	1149.77	BDL	BDL
EG-7	Eureka Gulch above South Fork	BDL	1508.89	1362.87	BDL	BDL
EG-8	South Fork above Eureka Gulch	BDL	1162.69	1051.37	BDL	BDL
EG-9	Eureka Gulch below South Fork	BDL	2786.78	2489.83	BDL	BDL
EG-10	Eureka Gulch above Animas	BDL	2306.52	2542.42	BDL	BDL
MI-1	Minnie Gulch above Esmerelda	BDL	3180.92	3093.60	BDL	BDL
MI-2	Minnie Gulch below Esmerelda	BDL	2900.29	2888.47	BDL	BDL
MI-3	Minnie Gulch above Tributary	BDL	3847.97	3782.11	BDL	BDL
MI-4	Tributary containing Kitti Mack	BDL	402.25	390.06	BDL	BDL
MI-5	Minnie Gulch below Tributary	BDL	4797.49	4837.47	BDL	BDL
MI-6	Minnie Gulch above Animas	BDL	3660.02	3218.49	BDL	BDL
MA-1	Maggie Gulch above Draining Mine	BDL	1340.73	758.66	BDL	BDL
MA-2	Maggie Gulch below Upper Mines	BDL	2527.87	1183.83	BDL	BDL
MA-3	Cryatal Lake Tributary	BDL	339.97	297.18	BDL	BDL
MA-4	Maggie Gulch above Little Maud	BDL	11229.52	4102.73	BDL	BDL
MA-5	Maggie Gulch below Little Maud	BDL	8078.15	4301.12	BDL	BDL
MA-6	Maggie Gulch above Animas	BDL	BDL	BDL	BDL	BDL
CU-1	Cunningham Gulch below Spencer Creek	BDL	10723.18	5195.34	BDL	BDL
CU-2	Cunningham Gulch above Royal Tiger	BDL	15793.40	7702.20	BDL	BDL
CU-3	Cunningham Gulch below Highland Mary Tails	BDL	12896.19	8709.85	BDL	BDL
CU-4	Cunningham Gulch below Dives Creek	BDL	29403.65	7958.00	BDL	BDL
CU-5	Cunningham Gulch above Stony Gulch	BDL	13425.04	9514.84	BDL	BDL
CU-6	Cunningham Gulch below Stony Gulch	BDL	15327.16	9990.41	BDL	BDL
CU-7	Cunningham Gulch above Animas	BDL	30463.64	16432.67	BDL	BDL
RG-1	Rocky Gulch below Buffalo Boy	BDL	5.97	5.52	BDL	BDL
RG-1	Rocky Gulch below Buffalo Boy	BDL	33.09	31.86	BDL	BDL
RG-2	Rein Gulch above waste piles	BDL	70.95	50.05	BDL	BDL
RG-3	Rein Gulch below waste piles	BDL	52.58	44.66	BDL	BDL
RG-3A	Rein Gulch above Rocky Gulch	BDL	54.80	44.66	BDL	BDL
RG-4	Rocky Gulch below Rein Gulch	BDL	458.71	326.57	BDL	BDL
RG-5	Duplicate of RG-3	BDL	49.10	44.34	BDL	BDL
SG-1	Stony Gulch headwaters	BDL	7.44	6.00	BDL	BDL
SG-2	Stony Gulch below draining mines	BDL	786.83	540.71	BDL	BDL
SG-3	Stony Gulch above Cunningham Gulch	BDL	2234.09	1516.35	BDL	BDL
LG-1	Little Giant headwaters (main stream)	BDL	31.56	28.48	BDL	BDL
LG-2	Little Giant below lakes (main stream)	BDL	38.79	33.59	BDL	BDL

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Diss. As	Tot. Ba	Diss. Ba	Tot. Be	Diss. Be
		g/day	g/day	g/day	g/day	g/day
LG-3	Little Giant below Big Giant Mine (second stream)	BDL	17.65	15.60	BDL	BDL
LG-4	Little Giant above Arrastra (main stream)	BDL	4.84	9.88	BDL	BDL
LG-5	Little Giant above Arrastra (second stream)	BDL	33.96	31.69	BDL	BDL
LG-5	Little Giant above Arrastra (second stream)	BDL	8.76	8.20	BDL	BDL
LG-6	Little Giant above debris fan (main stream)	BDL	16.94	15.68	BDL	BDL
LG-6	Little Giant above debris fan (main stream)	BDL	5.76	5.36	BDL	BDL
LG-7	Duplicate of LG-4	BDL	20.78	4.46	BDL	BDL
LG-7	Duplicate of LG-2	BDL	37.84	35.95	BDL	BDL
AB-1	Arrastra above Silver Lake	BDL	265.28	238.47	BDL	BDL
AB-2	Arrastra below Silver Lake	BDL	373.08	352.92	BDL	BDL
AB-4	Arrastra below Woodchuck	BDL	722.74	722.74	BDL	BDL
AB-4	Arrastra below Woodchuck	BDL	1048.95	1007.82	BDL	BDL
AB-5	Arrastra below Little Giant	BDL	1224.52	1205.08	BDL	BDL
AB-6	Arrastra above Animas	BDL	1574.79	1528.81	BDL	BDL
AB-7	Duplicate of AB-4	BDL	694.73	666.71	BDL	BDL
AB-8	Duplicate of AB-2	BDL	371.07	356.95	BDL	BDL
WB-2	Woodchuck before flowing into Unity Tunnel	BDL	52.97	58.99	BDL	BDL
WB-3	Drainage from lower portal of Unity Tunnel	BDL	2.26	2.56	BDL	BDL
DB-1	Dives Basin above Cunningham Gulch	BDL	0.00	0.00	BDL	BDL
DB-1	Dives Basin above Cunningham Gulch	BDL	204.35	192.74	BDL	BDL
HG-1	Hematite Gulch above Animas	BDL	134.52	115.75	BDL	BDL
BG-1	Boulder Gulch above Animas	BDL	534.25	486.41	BDL	BDL
BG-2	Boulder Gulch above Mayflower Tailings	BDL	606.02	502.36	BDL	BDL
BL-1	Blair Gulch above Animas	BDL	11.78	10.01	BDL	BDL
SW-1	Swansea Gulch above Animas	BDL	1103.11	603.84	BDL	BDL
DM-32	Ben Franklin Prospect	BDL	49.81	48.80	BDL	BDL
DM-33	Bavarian Mine	BDL	0.32	0.29	BDL	BDL
DM-34	Draining mine above South Fork	BDL	0.24	0.24	BDL	BDL
DM-35	Moonbeam Mine	BDL	2.32	2.05	BDL	BDL
DM-36	Auburn Tunnel	BDL	3.68	4.20	BDL	BDL
DM-37	Unknown Draining Mine in Aspens	BDL	2.24	2.15	BDL	BDL
DM-38	Unknown Draining Mine across from Maggie Gulch	BDL	0.78	0.64	BDL	BDL
DM-39	Hamlet Mine	BDL	10.40	11.22	BDL	BDL
DM-40	Esmerelda Mine	BDL	18.01	17.23	BDL	BDL
DM-41	Little Maud Mine	BDL	0.04	0.02	BDL	BDL
DM-42	Progressive Mine	BDL	1.37	1.53	BDL	BDL
DM-43	Silver Star Mine	BDL	1.20	1.39	BDL	BDL
DM-44	Hidden Treasure Mine	BDL	0.49	0.47	BDL	BDL
DM-45	Old Hundred Mine	BDL	22.18	24.32	BDL	BDL
DM-46	Smuggler Mine	BDL	0.58	0.63	BDL	BDL
DM-47	Emma Mine	BDL	0.72	0.82	BDL	BDL
DM-49	Oyama Tunnel	BDL	1.66	1.77	BDL	BDL
DM-50	Unknown Draining Mine near top of Stony Pass	BDL	0.68	0.64	BDL	BDL
DM-51	Pride of the West Mine	BDL	4.01	4.01	BDL	BDL
DM-52	Green Mountain Mine	BDL	0.90	1.03	BDL	BDL
DM-53	Innis Tunnel	BDL	5.58	5.99	BDL	BDL
DM-54	Bradley Tunnel	BDL	1.76	1.84	BDL	BDL
DM-55	Shenandoah Dives Mine	BDL	5.90	4.67	BDL	BDL
DM-56	Little Nation Mine	BDL	5.33	6.27	BDL	0.78
DM-57	Valley Forge Mine	BDL	7.63	5.56	BDL	BDL
DM-58	Ezra R Mine	BDL	0.98	1.06	BDL	BDL
DM-59	Solomon Mine	BDL	1.14	0.99	BDL	BDL

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Diss. As	Tot. Ba	Diss. Ba	Tot. Be	Diss. Be
		g/day	g/day	g/day	g/day	g/day
DM-60	Black Prince Mine	BDL	1.12	0.85	BDL	BDL
DM-61	Upper Iowa Mine	BDL	0.08	0.07	BDL	BDL
DM-62	Iowa Mine	BDL	2.59	1.30	BDL	BDL
DM-63	Royal Tiger Mine	BDL	1.85	1.74	0.81	0.84
DM-64	Aspen Mine	BDL	28.69	30.10	BDL	BDL
DM-65	Blair Mountain Tunnel	0.26	2.13	2.22	BDL	BDL
DM-66	Last Chance Mine	BDL	18.60	18.47	BDL	BDL
DM-67	Mighty Monarch Mine	BDL	0.91	1.02	BDL	BDL
DM-68	Kitti Mack Mine	BDL	7.07	7.02	BDL	BDL
DM-69	Ransom Mine	BDL	0.31	0.28	BDL	BDL
DM-71	Queen of Maggie Mine	BDL	1.07	1.13	BDL	BDL
DM-72	Unknown Draining mine in lower Minnie Gulch	BDL	0.17	0.20	BDL	0.02
DM-73	Little Casino Mine	BDL	0.03	0.03	BDL	BDL
DM-74	Midway Tunnel	BDL	0.96	1.04	BDL	BDL
DM-76	Pittsburg Tunnel/Malachite Falls	BDL	0.20	0.20	BDL	BDL
DM-77	Jess Mine	BDL	0.32	0.31	BDL	BDL
DM-78	Argentine Tunnel	BDL	0.73	0.79	BDL	BDL
DM-79	Iowa Mine - Southern Adit	BDL	1.86	1.76	BDL	BDL
DM-80	Duplicate of DM-77	BDL	0.32	0.33	BDL	BDL
DM-81	Duplicate if DM-43	BDL	1.48	1.43	BDL	BDL
ARD-1	Acidic drainage from Ben Franklin Waste Pile	BDL	4.82	4.98	BDL	BDL
ARD-2	Acidic drainage from Howardsville Tails	BDL	11.74	13.62	BDL	BDL
ARD-3	Seepage near Silverton Lakes Campground	0.10	1.36	1.35	0.10	0.12
ARD-4	Seepage south of Silverton Lakes Campground	0.15	3.00	3.46	0.19	0.30
ARD-5	Duplicate of ARD-2	BDL	11.62	13.91	BDL	BDL
A-72	Animas Gage	BDL	122606.63	61674.85	BDL	BDL
A-68	Animas above Cement Creek	BDL	38303.11	26599.38	BDL	BDL
M-34	Mineral Creek Gage	BDL	54891.46	24529.15	BDL	BDL
C-48	Cement Creek Gage	BDL	15384.84	7858.74	BDL	BDL

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Tot. Cd	Diss. Cd	Tot. Co	Diss. Co	Tot. Cr	Diss. Cr
		g/day	g/day	g/day	g/day	g/day	g/day
UA-12	Animas above Eureka Confluence	882.82	441.41	BDL	BDL	BDL	BDL
LA-1	Animas below Eureka Confluence	1053.58	677.30	BDL	5418.44	BDL	BDL
LA-2	Animas above Minnie Confluence	ND	ND	ND	ND	ND	ND
LA-3	Animas below Maggie Confluence	ND	ND	ND	ND	ND	ND
LA-4	Animas above Howardsville Tails	ND	ND	ND	ND	ND	ND
LA-5	Animas below Cunningham	BDL	BDL	BDL	BDL	BDL	BDL
LA-6	Animas above Arrastra	ND	ND	ND	ND	ND	ND
LA-7	Animas above Boulder	998.85	BDL	BDL	BDL	BDL	BDL
LA-8	Animas below Boulder Creek	ND	ND	ND	ND	ND	ND
LA-9	Animas below Mayflower Tails	1169.24	BDL	BDL	BDL	BDL	BDL
EG-0	Duplicate of EG-2A	102.74	94.83	BDL	BDL	BDL	BDL
EG-2A	Eureka Gulch above Sunnyside	94.83	91.32	140.49	BDL	BDL	BDL
EG-1	Eureka Gulch Headwaters	BDL	BDL	BDL	BDL	BDL	BDL
EG-3A	Eureka Gulch below Headwaters Confluence	212.32	212.32	BDL	BDL	BDL	BDL
EG-4	Eureka Gulch above Confluence	51.21	44.29	BDL	BDL	BDL	BDL
EG-5	Eureka Gulch below Tunnel	113.62	118.78	BDL	BDL	BDL	BDL
EG-6	Eureka Gulch below Terry Tunnel	126.75	135.80	BDL	BDL	BDL	BDL
EG-7	Eureka Gulch above South Fork	107.08	107.08	BDL	BDL	BDL	BDL
EG-8	South Fork above Eureka Gulch	BDL	BDL	BDL	BDL	BDL	BDL
EG-9	Eureka Gulch below South Fork	BDL	BDL	BDL	BDL	BDL	BDL
EG-10	Eureka Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL
MI-1	Minnie Gulch above Esmerelda	BDL	BDL	BDL	BDL	BDL	BDL
MI-2	Minnie Gulch below Esmerelda	BDL	BDL	BDL	BDL	BDL	BDL
MI-3	Minnie Gulch above Tributary	BDL	BDL	BDL	BDL	BDL	BDL
MI-4	Tributary containing Kitti Mack	BDL	BDL	BDL	BDL	BDL	BDL
MI-5	Minnie Gulch below Tributary	BDL	BDL	BDL	BDL	BDL	BDL
MI-6	Minnie Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL
MA-1	Maggie Gulch above Draining Mine	BDL	BDL	BDL	BDL	BDL	BDL
MA-2	Maggie Gulch below Upper Mines	BDL	BDL	BDL	BDL	BDL	BDL
MA-3	Cryatal Lake Tributary	BDL	BDL	BDL	BDL	BDL	BDL
MA-4	Maggie Gulch above Little Maud	BDL	BDL	BDL	BDL	BDL	BDL
MA-5	Maggie Gulch below Little Maud	BDL	BDL	BDL	BDL	BDL	BDL
MA-6	Maggie Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL
CU-1	Cunningham Gulch below Spencer Creek	BDL	BDL	BDL	BDL	BDL	BDL
CU-2	Cunningham Gulch above Royal Tiger	BDL	BDL	BDL	BDL	BDL	BDL
CU-3	Cunningham Gulch below Highland Mary Tails	BDL	BDL	BDL	BDL	BDL	BDL
CU-4	Cunningham Gulch below Dives Creek	BDL	BDL	BDL	BDL	BDL	BDL
CU-5	Cunningham Gulch above Stony Gulch	BDL	BDL	BDL	BDL	BDL	BDL
CU-6	Cunningham Gulch below Stony Gulch	BDL	BDL	BDL	BDL	BDL	BDL
CU-7	Cunningham Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL
RG-1	Rocky Gulch below Buffalo Boy	BDL	BDL	BDL	BDL	BDL	BDL
RG-1	Rocky Gulch below Buffalo Boy	3.47	BDL	BDL	BDL	BDL	BDL
RG-2	Rein Gulch above waste piles	BDL	BDL	BDL	BDL	BDL	BDL
RG-3	Rein Gulch below waste piles	4.12	BDL	BDL	BDL	BDL	BDL
RG-3A	Rein Gulch above Rocky Gulch	BDL	BDL	BDL	BDL	BDL	BDL
RG-4	Rocky Gulch below Rein Gulch	BDL	BDL	BDL	BDL	BDL	BDL
RG-5	Duplicate of RG-3	BDL	BDL	BDL	BDL	BDL	BDL
SG-1	Stony Gulch headwaters	BDL	BDL	BDL	BDL	BDL	BDL
SG-2	Stony Gulch below draining mines	BDL	BDL	BDL	BDL	BDL	BDL
SG-3	Stony Gulch above Cunningham Gulch	BDL	BDL	BDL	BDL	BDL	BDL
LG-1	Little Giant headwaters (main stream)	BDL	BDL	BDL	BDL	BDL	BDL
LG-2	Little Giant below lakes (main stream)	BDL	BDL	BDL	BDL	BDL	BDL

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Tot. Cd	Diss. Cd	Tot. Co	Diss. Co	Tot. Cr	Diss. Cr
		g/day	g/day	g/day	g/day	g/day	g/day
LG-3	Little Giant below Big Giant Mine (second stream)	BDL	BDL	BDL	BDL	BDL	BDL
LG-4	Little Giant above Arrastra (main stream)	BDL	BDL	BDL	BDL	BDL	BDL
LG-5	Little Giant above Arrastra (second stream)	BDL	BDL	BDL	BDL	BDL	BDL
LG-5	Little Giant above Arrastra (second stream)	BDL	BDL	BDL	BDL	BDL	BDL
LG-6	Little Giant above debris fan (main stream)	BDL	BDL	BDL	BDL	BDL	BDL
LG-6	Little Giant above debris fan (main stream)	BDL	BDL	BDL	BDL	BDL	BDL
LG-7	Duplicate of LG-4	BDL	BDL	BDL	BDL	BDL	BDL
LG-7	Duplicate of LG-2	BDL	BDL	BDL	BDL	BDL	BDL
AB-1	Arrastra above Silver Lake	BDL	BDL	BDL	BDL	BDL	BDL
AB-2	Arrastra below Silver Lake	48.40	24.20	BDL	BDL	BDL	BDL
AB-4	Arrastra below Woodchuck	BDL	BDL	BDL	BDL	BDL	BDL
AB-4	Arrastra below Woodchuck	41.14	BDL	BDL	BDL	BDL	BDL
AB-5	Arrastra below Little Giant	BDL	BDL	BDL	BDL	BDL	BDL
AB-6	Arrastra above Animas	BDL	BDL	BDL	BDL	BDL	BDL
AB-7	Duplicate of AB-4	BDL	BDL	BDL	BDL	BDL	BDL
AB-8	Duplicate of AB-2	50.42	24.20	BDL	BDL	BDL	BDL
WB-2	Woodchuck before flowing into Unity Tunnel	BDL	BDL	BDL	BDL	BDL	BDL
WB-3	Drainage from lower portal of Unity Tunnel	BDL	BDL	BDL	BDL	BDL	BDL
DB-1	Dives Basin above Cunningham Gulch	BDL	BDL	BDL	BDL	BDL	BDL
DB-1	Dives Basin above Cunningham Gulch	BDL	BDL	BDL	BDL	BDL	BDL
HG-1	Hematite Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL
BG-1	Boulder Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL
BG-2	Boulder Gulch above Mayflower Tailings	BDL	BDL	BDL	BDL	BDL	BDL
BL-1	Blair Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL
SW-1	Swansea Gulch above Animas	20.24	BDL	BDL	BDL	BDL	BDL
DM-32	Ben Franklin Prospect	5.38	2.69	BDL	BDL	BDL	BDL
DM-33	Bavarian Mine	0.24	0.15	BDL	BDL	BDL	BDL
DM-34	Draining mine above South Fork	BDL	BDL	BDL	BDL	BDL	BDL
DM-35	Moonbeam Mine	0.25	0.14	BDL	BDL	BDL	BDL
DM-36	Auburn Tunnel	0.31	BDL	BDL	BDL	BDL	BDL
DM-37	Unknown Draining Mine in Aspens	BDL	BDL	BDL	BDL	BDL	BDL
DM-38	Unknown Draining Mine across from Maggie Gulch	0.11	BDL	BDL	BDL	BDL	BDL
DM-39	Hamlet Mine	1.85	1.03	BDL	BDL	BDL	BDL
DM-40	Esmerelda Mine	BDL	BDL	BDL	BDL	BDL	BDL
DM-41	Little Maud Mine	BDL	BDL	BDL	BDL	BDL	BDL
DM-42	Progressive Mine	BDL	BDL	BDL	BDL	BDL	BDL
DM-43	Silver Star Mine	BDL	BDL	BDL	BDL	BDL	BDL
DM-44	Hidden Treasure Mine	BDL	BDL	BDL	BDL	BDL	BDL
DM-45	Old Hundred Mine	1.43	BDL	BDL	BDL	BDL	BDL
DM-46	Smuggler Mine	0.14	0.09	0.92	1.17	BDL	BDL
DM-47	Emma Mine	BDL	BDL	BDL	BDL	BDL	BDL
DM-49	Oyama Tunnel	BDL	BDL	BDL	BDL	BDL	BDL
DM-50	Unknown Draining Mine near top of Stony Pass	BDL	BDL	BDL	BDL	BDL	BDL
DM-51	Pride of the West Mine	6.59	5.21	BDL	BDL	BDL	BDL
DM-52	Green Mountain Mine	0.88	0.68	BDL	BDL	BDL	BDL
DM-53	Innis Tunnel	BDL	BDL	BDL	BDL	BDL	BDL
DM-54	Bradley Tunnel	2.01	1.78	BDL	1.91	BDL	BDL
DM-55	Shenandoah Dives Mine	0.69	0.32	BDL	BDL	BDL	BDL
DM-56	Little Nation Mine	1.39	0.89	7.88	8.49	BDL	BDL
DM-57	Valley Forge Mine	BDL	BDL	BDL	BDL	BDL	BDL
DM-58	Ezra R Mine	0.04	BDL	BDL	BDL	BDL	BDL
DM-59	Solomon Mine	0.17	BDL	BDL	BDL	BDL	BDL

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Tot. Cd	Diss. Cd	Tot. Co	Diss. Co	Tot. Cr	Diss. Cr
		g/day	g/day	g/day	g/day	g/day	g/day
DM-60	Black Prince Mine	BDL	BDL	BDL	BDL	BDL	BDL
DM-61	Upper Iowa Mine	0.23	0.15	BDL	BDL	BDL	BDL
DM-62	Iowa Mine	0.85	0.37	BDL	BDL	BDL	BDL
DM-63	Royal Tiger Mine	19.57	19.79	15.53	15.04	BDL	BDL
DM-64	Aspen Mine	12.22	9.74	BDL	BDL	BDL	BDL
DM-65	Blair Mountain Tunnel	BDL	BDL	BDL	BDL	BDL	BDL
DM-66	Last Chance Mine	BDL	BDL	BDL	BDL	BDL	BDL
DM-67	Mighty Monarch Mine	0.12	0.08	BDL	BDL	BDL	BDL
DM-68	Kitti Mack Mine	3.76	1.93	BDL	BDL	BDL	BDL
DM-69	Ransom Mine	BDL	BDL	BDL	BDL	BDL	BDL
DM-71	Queen of Maggie Mine	BDL	BDL	BDL	BDL	BDL	BDL
DM-72	Unknown Draining mine in lower Minnie Gulch	BDL	BDL	0.32	0.33	BDL	BDL
DM-73	Little Casino Mine	0.00	BDL	BDL	BDL	BDL	BDL
DM-74	Midway Tunnel	BDL	BDL	BDL	BDL	BDL	BDL
DM-76	Pittsburg Tunnel/Malachite Falls	0.12	0.09	BDL	BDL	BDL	BDL
DM-77	Jess Mine	BDL	BDL	BDL	BDL	BDL	BDL
DM-78	Argentine Tunnel	BDL	BDL	BDL	BDL	BDL	BDL
DM-79	Iowa Mine - Southern Adit	3.57	2.10	BDL	BDL	BDL	BDL
DM-80	Duplicate of DM-77	BDL	BDL	BDL	BDL	BDL	BDL
DM-81	Duplicate if DM-43	BDL	BDL	BDL	BDL	BDL	BDL
ARD-1	Acidic drainage from Ben Franklin Waste Pile	5.11	3.50	BDL	BDL	BDL	BDL
ARD-2	Acidic drainage from Howardsville Tails	11.04	7.57	8.39	9.98	BDL	BDL
ARD-3	Seepage near Silverton Lakes Campground	2.50	1.60	BDL	1.14	BDL	BDL
ARD-4	Seepage south of Silverton Lakes Campground	0.28	0.13	4.70	5.68	BDL	BDL
ARD-5	Duplicate of ARD-2	11.04	6.93	9.16	6.81	BDL	BDL
A-72	Animas Gage	2600.75	BDL	BDL	BDL	BDL	BDL
A-68	Animas above Cement Creek	1063.98	BDL	BDL	BDL	BDL	BDL
M-34	Mineral Creek Gage	BDL	BDL	BDL	BDL	BDL	BDL
C-48	Cement Creek Gage	873.19	997.94	BDL	BDL	BDL	BDL

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Tot. Cu	Diss. Cu	Tot. Fe	Diss. Fe
		g/day	g/day	g/day	g/day
UA-12	Animas above Eureka Confluence	5198.83	4168.87	87791.60	7258.75
LA-1	Animas below Eureka Confluence	11965.71	7977.14	117474.72	14825.45
LA-2	Animas above Minnie Confluence	ND	ND	ND	ND
LA-3	Animas below Maggie Confluence	ND	ND	ND	ND
LA-4	Animas above Howardsville Tails	ND	ND	ND	ND
LA-5	Animas below Cunningham	17247.58	8848.76	1120942.47	17847.49
LA-6	Animas above Arrastra	ND	ND	ND	ND
LA-7	Animas above Boulder	24804.66	13317.94	1220755.36	22141.07
LA-8	Animas below Boulder Creek	ND	ND	ND	ND
LA-9	Animas below Mayflower Tails	25723.34	11887.30	1176453.03	18318.14
EG-0	Duplicate of EG-2A	1077.41	BDL	482.07	BDL
EG-2A	Eureka Gulch above Sunnyside	497.87	504.90	462.75	54.44
EG-1	Eureka Gulch Headwaters	BDL	BDL	1126.03	157.64
EG-3A	Eureka Gulch below Headwaters Confluence	885.40	569.19	12698.33	709.23
EG-4	Eureka Gulch above Confluence	354.34	146.72	11954.87	163.33
EG-5	Eureka Gulch below Tunnel	1125.87	996.76	8681.63	1162.03
EG-6	Eureka Gulch below Terry Tunnel	2290.49	1294.63	43627.99	2299.55
EG-7	Eureka Gulch above South Fork	1976.16	1411.54	17444.69	1255.78
EG-8	South Fork above Eureka Gulch	BDL	BDL	22994.00	4885.76
EG-9	Eureka Gulch below South Fork	3015.20	1987.29	69623.78	6601.47
EG-10	Eureka Gulch above Animas	2332.73	2227.89	31950.57	8308.72
MI-1	Minnie Gulch above Esmerelda	BDL	BDL	9143.58	810.82
MI-2	Minnie Gulch below Esmerelda	BDL	BDL	8529.56	549.34
MI-3	Minnie Gulch above Tributary	BDL	BDL	11007.63	743.25
MI-4	Tributary containing Kitti Mack	BDL	BDL	1135.65	BDL
MI-5	Minnie Gulch below Tributary	BDL	BDL	13153.11	986.15
MI-6	Minnie Gulch above Animas	BDL	755.24	44233.91	1789.34
MA-1	Maggie Gulch above Draining Mine	BDL	BDL	75015.47	5277.90
MA-2	Maggie Gulch below Upper Mines	BDL	BDL	135027.37	5002.33
MA-3	Cryatal Lake Tributary	BDL	BDL	5016.39	249.63
MA-4	Maggie Gulch above Little Maud	BDL	BDL	516211.42	6048.15
MA-5	Maggie Gulch below Little Maud	BDL	BDL	277584.76	4246.90
MA-6	Maggie Gulch above Animas	BDL	BDL	BDL	BDL
CU-1	Cunningham Gulch below Spencer Creek	BDL	BDL	296965.55	3740.64
CU-2	Cunningham Gulch above Royal Tiger	BDL	BDL	362807.24	6042.47
CU-3	Cunningham Gulch below Highland Mary Tails	BDL	BDL	253512.76	5506.87
CU-4	Cunningham Gulch below Dives Creek	3627.91	BDL	1189019.16	5178.55
CU-5	Cunningham Gulch above Stony Gulch	BDL	BDL	285836.12	10655.31
CU-6	Cunningham Gulch below Stony Gulch	BDL	BDL	342192.76	13235.15
CU-7	Cunningham Gulch above Animas	BDL	BDL	1037154.22	10554.83
RG-1	Rocky Gulch below Buffalo Boy	BDL	BDL	8.01	8.64
RG-1	Rocky Gulch below Buffalo Boy	19.40	BDL	1500.31	104.36
RG-2	Rein Gulch above waste piles	BDL	BDL	1455.77	23.12
RG-3	Rein Gulch below waste piles	BDL	BDL	579.65	18.37
RG-3A	Rein Gulch above Rocky Gulch	BDL	17.10	620.19	19.64
RG-4	Rocky Gulch below Rein Gulch	BDL	BDL	9029.96	156.45
RG-5	Duplicate of RG-3	BDL	17.10	310.73	17.74
SG-1	Stony Gulch headwaters	BDL	BDL	84.78	7.76
SG-2	Stony Gulch below draining mines	BDL	BDL	27106.46	932.26
SG-3	Stony Gulch above Cunningham Gulch	BDL	BDL	72734.16	2759.75
LG-1	Little Giant headwaters (main stream)	BDL	BDL	29.25	BDL
LG-2	Little Giant below lakes (main stream)	BDL	BDL	98.39	BDL

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Tot. Cu	Diss. Cu	Tot. Fe	Diss. Fe
		g/day	g/day	g/day	g/day
LG-3	Little Giant below Big Giant Mine (second stream)	BDL	BDL	32.18	BDL
LG-4	Little Giant above Arrastra (main stream)	BDL	BDL	25.86	8.96
LG-5	Little Giant above Arrastra (second stream)	BDL	34.41	185.17	BDL
LG-5	Little Giant above Arrastra (second stream)	BDL	BDL	15.38	BDL
LG-6	Little Giant above debris fan (main stream)	BDL	BDL	85.45	BDL
LG-6	Little Giant above debris fan (main stream)	BDL	BDL	3.72	BDL
LG-7	Duplicate of LG-4	BDL	BDL	808.77	BDL
LG-7	Duplicate of LG-2	BDL	45.88	110.22	BDL
AB-1	Arrastra above Silver Lake	BDL	BDL	413.44	88.90
AB-2	Arrastra below Silver Lake	227.88	256.12	703.81	BDL
AB-4	Arrastra below Woodchuck	459.42	403.39	1344.63	BDL
AB-4	Arrastra below Woodchuck	BDL	BDL	1933.37	BDL
AB-5	Arrastra below Little Giant	BDL	777.47	5850.46	BDL
AB-6	Arrastra above Animas	1080.52	1046.03	5552.01	BDL
AB-7	Duplicate of AB-4	BDL	302.54	1120.52	BDL
AB-8	Duplicate of AB-2	189.57	268.22	742.13	171.42
WB-2	Woodchuck before flowing into Unity Tunnel	BDL	BDL	127.01	48.16
WB-3	Drainage from lower portal of Unity Tunnel	BDL	BDL	2.50	BDL
DB-1	Dives Basin above Cunningham Gulch	BDL	BDL	0.00	0.00
DB-1	Dives Basin above Cunningham Gulch	BDL	BDL	761.67	BDL
HG-1	Hematite Gulch above Animas	BDL	BDL	2649.70	212.73
BG-1	Boulder Gulch above Animas	BDL	BDL	7351.98	885.11
BG-2	Boulder Gulch above Mayflower Tailings	BDL	BDL	8715.52	741.58
BL-1	Blair Gulch above Animas	BDL	BDL	177.00	19.76
SW-1	Swansea Gulch above Animas	408.18	236.14	50263.85	1231.30
DM-32	Ben Franklin Prospect	186.12	183.76	152.80	95.25
DM-33	Bavarian Mine	17.48	17.93	20.48	11.96
DM-34	Draining mine above South Fork	BDL	BDL	BDL	BDL
DM-35	Moonbeam Mine	BDL	BDL	141.25	18.18
DM-36	Auburn Tunnel	BDL	2.85	297.32	113.53
DM-37	Unknown Draining Mine in Aspens	BDL	BDL	1025.64	1022.70
DM-38	Unknown Draining Mine across from Maggie Gulch	BDL	BDL	100.98	71.89
DM-39	Hamlet Mine	92.16	16.27	1029.53	6.90
DM-40	Esmerelda Mine	BDL	BDL	97.40	BDL
DM-41	Little Maud Mine	BDL	0.02	1.31	BDL
DM-42	Progressive Mine	BDL	BDL	3.49	BDL
DM-43	Silver Star Mine	BDL	BDL	6.56	BDL
DM-44	Hidden Treasure Mine	BDL	BDL	123.35	33.32
DM-45	Old Hundred Mine	20.27	BDL	146.43	BDL
DM-46	Smuggler Mine	0.53	BDL	245.59	171.55
DM-47	Emma Mine	BDL	BDL	1.26	BDL
DM-49	Oyama Tunnel	BDL	BDL	87.33	9.39
DM-50	Unknown Draining Mine near top of Stony Pass	BDL	BDL	97.84	29.32
DM-51	Pride of the West Mine	47.16	11.39	280.09	BDL
DM-52	Green Mountain Mine	BDL	0.82	3.27	BDL
DM-53	Innis Tunnel	BDL	5.86	21.54	BDL
DM-54	Bradley Tunnel	0.20	96.18	70.78	1.45
DM-55	Shenandoah Dives Mine	33.43	21.22	31.06	BDL
DM-56	Little Nation Mine	7.55	7.83	3743.32	4082.01
DM-57	Valley Forge Mine	BDL	BDL	376.26	BDL
DM-58	Ezra R Mine	0.54	BDL	1.56	BDL
DM-59	Solomon Mine	4.35	5.04	12.38	4.37

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Tot. Cu	Diss. Cu	Tot. Fe	Diss. Fe
		g/day	g/day	g/day	g/day
DM-60	Black Prince Mine	BDL	BDL	8.38	BDL
DM-61	Upper Iowa Mine	5.03	5.23	0.12	0.08
DM-62	Iowa Mine	12.00	3.82	148.84	3.97
DM-63	Royal Tiger Mine	338.29	359.73	210.36	215.24
DM-64	Aspen Mine	43.03	33.29	56.31	BDL
DM-65	Blair Mountain Tunnel	BDL	BDL	130.44	109.14
DM-66	Last Chance Mine	BDL	BDL	237.42	84.59
DM-67	Mighty Monarch Mine	BDL	BDL	28.51	2.30
DM-68	Kitti Mack Mine	340.61	73.57	693.94	18.11
DM-69	Ransom Mine	BDL	BDL	6.77	0.88
DM-71	Queen of Maggie Mine	BDL	BDL	77.64	0.69
DM-72	Unknown Draining mine in lower Minnie Gulch	BDL	0.10	53.93	61.17
DM-73	Little Casino Mine	BDL	BDL	0.95	BDL
DM-74	Midway Tunnel	0.84	BDL	7.71	BDL
DM-76	Pittsburg Tunnel/Malachite Falls	24.22	15.39	1.01	BDL
DM-77	Jess Mine	BDL	BDL	32.90	9.58
DM-78	Argentine Tunnel	BDL	BDL	2.14	BDL
DM-79	Iowa Mine - Southern Adit	25.78	27.60	6.33	BDL
DM-80	Duplicate of DM-77	0.31	BDL	36.32	9.58
DM-81	Duplicate if DM-43	BDL	BDL	5.87	4.16
ARD-1	Acidic drainage from Ben Franklin Waste Pile	204.94	212.01	808.23	662.14
ARD-2	Acidic drainage from Howardsville Tails	25.65	30.94	3546.19	3245.05
ARD-3	Seepage near Silverton Lakes Campground	1.15	1.40	42.06	6.52
ARD-4	Seepage south of Silverton Lakes Campground	BDL	2.95	478.64	409.86
ARD-5	Duplicate of ARD-2	24.54	28.35	3454.62	3243.88
A-72	Animas Gage	116290.53	31580.50	10588754.57	397542.72
A-68	Animas above Cement Creek	20392.86	9930.44	908457.49	17910.25
M-34	Mineral Creek Gage	20939.52	7777.54	4968649.23	294798.54
C-48	Cement Creek Gage	42329.09	37464.16	2484443.24	642420.89

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Tot. Mn	Diss. Mn	Tot. Ni	Diss. Ni	Tot. Pb
		g/day	g/day	g/day	g/day	g/day
UA-12	Animas above Eureka Confluence	289761.33	298393.36	BDL	BDL	3138.92
LA-1	Animas below Eureka Confluence	440022.22	417294.89	BDL	BDL	5343.18
LA-2	Animas above Minnie Confluence	ND	ND	ND	ND	ND
LA-3	Animas below Maggie Confluence	ND	ND	ND	ND	ND
LA-4	Animas above Howardsville Tails	ND	ND	ND	ND	ND
LA-5	Animas below Cunningham	489681.18	269062.19	BDL	BDL	37194.77
LA-6	Animas above Arrastra	ND	ND	ND	ND	ND
LA-7	Animas above Boulder	513406.45	269854.69	BDL	BDL	42783.87
LA-8	Animas below Boulder Creek	ND	ND	ND	ND	ND
LA-9	Animas below Mayflower Tails	837177.78	522456.62	BDL	BDL	49692.81
EG-0	Duplicate of EG-2A	28678.27	140.49	BDL	BDL	40.39
EG-2A	Eureka Gulch above Sunnyside	30021.74	30882.26	497.87	BDL	45.66
EG-1	Eureka Gulch Headwaters	50.97	27.26	BDL	BDL	BDL
EG-3A	Eureka Gulch below Headwaters Confluence	91431.56	87636.97	BDL	BDL	121.97
EG-4	Eureka Gulch above Confluence	24181.03	19045.85	BDL	BDL	258.84
EG-5	Eureka Gulch below Tunnel	53453.20	53040.03	BDL	BDL	521.62
EG-6	Eureka Gulch below Terry Tunnel	72336.09	62739.57	BDL	BDL	1321.79
EG-7	Eureka Gulch above South Fork	56831.54	52567.71	BDL	BDL	652.23
EG-8	South Fork above Eureka Gulch	3512.80	2535.65	BDL	BDL	BDL
EG-9	Eureka Gulch below South Fork	71017.17	57083.27	BDL	BDL	1393.39
EG-10	Eureka Gulch above Animas	56483.58	53416.96	BDL	BDL	445.58
MI-1	Minnie Gulch above Esmerelda	330.57	87.32	BDL	BDL	BDL
MI-2	Minnie Gulch below Esmerelda	330.79	59.07	BDL	BDL	BDL
MI-3	Minnie Gulch above Tributary	47605.65	BDL	BDL	BDL	BDL
MI-4	Tributary containing Kitti Mack	BDL	BDL	BDL	BDL	BDL
MI-5	Minnie Gulch below Tributary	546.38	BDL	BDL	BDL	BDL
MI-6	Minnie Gulch above Animas	2242.49	476.38	BDL	BDL	127.81
MA-1	Maggie Gulch above Draining Mine	5212.50	1628.50	BDL	BDL	BDL
MA-2	Maggie Gulch below Upper Mines	11606.84	3720.60	BDL	BDL	80.11
MA-3	Cryatal Lake Tributary	325.71	35.66	BDL	BDL	BDL
MA-4	Maggie Gulch above Little Maud	29566.59	3255.21	BDL	BDL	365.97
MA-5	Maggie Gulch below Little Maud	16427.38	2439.71	BDL	BDL	180.72
MA-6	Maggie Gulch above Animas	BDL	BDL	BDL	BDL	BDL
CU-1	Cunningham Gulch below Spencer Creek	18890.25	519.53	BDL	BDL	353.28
CU-2	Cunningham Gulch above Royal Tiger	19216.60	985.47	BDL	BDL	389.00
CU-3	Cunningham Gulch below Highland Mary Tails	15593.44	786.70	BDL	BDL	2219.61
CU-4	Cunningham Gulch below Dives Creek	114630.34	1901.73	BDL	BDL	34991.80
CU-5	Cunningham Gulch above Stony Gulch	18997.09	4170.89	BDL	BDL	4007.96
CU-6	Cunningham Gulch below Stony Gulch	28220.76	8923.06	BDL	BDL	5678.31
CU-7	Cunningham Gulch above Animas	63708.19	2780.91	BDL	BDL	17254.30
RG-1	Rocky Gulch below Buffalo Boy	1.62	1.62	BDL	BDL	BDL
RG-1	Rocky Gulch below Buffalo Boy	606.98	593.91	BDL	BDL	8.58
RG-2	Rein Gulch above waste piles	44.03	BDL	BDL	BDL	9.50
RG-3	Rein Gulch below waste piles	27.24	5.70	BDL	BDL	21.86
RG-3A	Rein Gulch above Rocky Gulch	38.01	7.60	BDL	BDL	14.57
RG-4	Rocky Gulch below Rein Gulch	378.21	103.29	BDL	BDL	34.94
RG-5	Duplicate of RG-3	32.94	5.07	BDL	BDL	25.02
SG-1	Stony Gulch headwaters	10.24	6.08	BDL	BDL	BDL
SG-2	Stony Gulch below draining mines	1864.52	652.58	BDL	BDL	216.28
SG-3	Stony Gulch above Cunningham Gulch	3770.65	1728.64	BDL	BDL	879.48
LG-1	Little Giant headwaters (main stream)	BDL	BDL	BDL	BDL	2.05
LG-2	Little Giant below lakes (main stream)	55.82	46.36	BDL	BDL	28.86

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Tot. Mn	Diss. Mn	Tot. Ni	Diss. Ni	Tot. Pb
		g/day	g/day	g/day	g/day	g/day
LG-3	Little Giant below Big Giant Mine (second stream)	BDL	BDL	BDL	BDL	2.04
LG-4	Little Giant above Arrastra (main stream)	2.37	2.28	BDL	BDL	0.53
LG-5	Little Giant above Arrastra (second stream)	BDL	BDL	BDL	BDL	4.53
LG-5	Little Giant above Arrastra (second stream)	BDL	BDL	BDL	BDL	1.35
LG-6	Little Giant above debris fan (main stream)	BDL	BDL	BDL	BDL	BDL
LG-6	Little Giant above debris fan (main stream)	BDL	BDL	BDL	BDL	BDL
LG-7	Duplicate of LG-4	43.78	BDL	BDL	BDL	1.40
LG-7	Duplicate of LG-2	55.82	50.14	BDL	BDL	27.91
AB-1	Arrastra above Silver Lake	BDL	BDL	BDL	BDL	14.11
AB-2	Arrastra below Silver Lake	2482.51	2184.04	BDL	BDL	371.07
AB-4	Arrastra below Woodchuck	BDL	BDL	BDL	BDL	61.63
AB-4	Arrastra below Woodchuck	370.22	BDL	BDL	BDL	281.09
AB-5	Arrastra below Little Giant	670.57	BDL	BDL	BDL	680.29
AB-6	Arrastra above Animas	597.73	218.40	BDL	BDL	574.74
AB-7	Duplicate of AB-4	BDL	BDL	BDL	BDL	78.44
AB-8	Duplicate of AB-2	2506.71	2262.69	BDL	BDL	375.10
WB-2	Woodchuck before flowing into Unity Tunnel	18.66	48.76	BDL	BDL	32.50
WB-3	Drainage from lower portal of Unity Tunnel	BDL	BDL	BDL	BDL	0.39
DB-1	Dives Basin above Cunningham Gulch	BDL	BDL	BDL	BDL	0.00
DB-1	Dives Basin above Cunningham Gulch	109.14	23.22	BDL	BDL	83.60
HG-1	Hematite Gulch above Animas	466.12	156.42	BDL	BDL	65.69
BG-1	Boulder Gulch above Animas	5653.53	6211.70	BDL	BDL	199.35
BG-2	Boulder Gulch above Mayflower Tailings	613.99	510.33	BDL	BDL	207.32
BL-1	Blair Gulch above Animas	34.59	19.13	BDL	BDL	BDL
SW-1	Swansea Gulch above Animas	4490.01	661.19	BDL	BDL	3012.46
DM-32	Ben Franklin Prospect	1324.36	1340.18	BDL	BDL	38.03
DM-33	Bavarian Mine	177.75	178.25	BDL	BDL	10.88
DM-34	Draining mine above South Fork	BDL	BDL	BDL	BDL	BDL
DM-35	Moonbeam Mine	147.84	99.73	BDL	BDL	3.26
DM-36	Auburn Tunnel	143.30	142.42	BDL	BDL	0.44
DM-37	Unknown Draining Mine in Aspens	120.08	121.46	BDL	BDL	0.11
DM-38	Unknown Draining Mine across from Maggie Gulch	37.38	37.97	BDL	BDL	1.33
DM-39	Hamlet Mine	667.37	698.16	BDL	BDL	2.88
DM-40	Esmerelda Mine	8.03	6.28	BDL	BDL	BDL
DM-41	Little Maud Mine	0.12	0.01	BDL	BDL	0.01
DM-42	Progressive Mine	BDL	1.37	BDL	BDL	BDL
DM-43	Silver Star Mine	10.63	11.28	BDL	BDL	BDL
DM-44	Hidden Treasure Mine	37.15	33.38	BDL	BDL	BDL
DM-45	Old Hundred Mine	13.35	BDL	BDL	BDL	18.36
DM-46	Smuggler Mine	74.80	83.41	BDL	BDL	0.16
DM-47	Emma Mine	1.72	0.55	BDL	BDL	BDL
DM-49	Oyama Tunnel	84.15	86.40	BDL	BDL	BDL
DM-50	Unknown Draining Mine near top of Stony Pass	0.57	0.52	BDL	BDL	BDL
DM-51	Pride of the West Mine	210.70	213.21	BDL	BDL	122.61
DM-52	Green Mountain Mine	1.02	1.01	BDL	BDL	3.31
DM-53	Innis Tunnel	11.92	11.50	BDL	BDL	1.39
DM-54	Bradley Tunnel	301.83	327.20	BDL	BDL	28.29
DM-55	Shenandoah Dives Mine	67.24	58.82	BDL	BDL	8.83
DM-56	Little Nation Mine	639.62	696.81	BDL	BDL	1.78
DM-57	Valley Forge Mine	23.03	BDL	BDL	BDL	16.17
DM-58	Ezra R Mine	1.15	1.16	BDL	BDL	0.66
DM-59	Solomon Mine	1.95	1.46	BDL	BDL	2.96

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Tot. Mn	Diss. Mn	Tot. Ni	Diss. Ni	Tot. Pb
		g/day	g/day	g/day	g/day	g/day
DM-60	Black Prince Mine	1.54	BDL	BDL	BDL	0.12
DM-61	Upper Iowa Mine	4.45	4.26	BDL	BDL	28.56
DM-62	Iowa Mine	9.88	4.91	BDL	BDL	29.76
DM-63	Royal Tiger Mine	1502.19	1470.16	6.03	5.81	386.34
DM-64	Aspen Mine	29.57	25.68	BDL	BDL	BDL
DM-65	Blair Mountain Tunnel	56.30	59.17	BDL	BDL	BDL
DM-66	Last Chance Mine	236.39	209.49	BDL	BDL	0.58
DM-67	Mighty Monarch Mine	60.64	66.72	BDL	BDL	0.06
DM-68	Kitti Mack Mine	191.09	91.68	BDL	BDL	74.18
DM-69	Ransom Mine	12.00	12.73	BDL	BDL	BDL
DM-71	Queen of Maggie Mine	76.69	87.54	BDL	BDL	BDL
DM-72	Unknown Draining mine in lower Minnie Gulch	21.82	25.63	BDL	BDL	BDL
DM-73	Little Casino Mine	0.74	0.06	BDL	BDL	0.02
DM-74	Midway Tunnel	21.80	22.00	BDL	BDL	BDL
DM-76	Pittsburg Tunnel/Malachite Falls	143.27	158.39	BDL	BDL	0.04
DM-77	Jess Mine	9.97	10.23	BDL	BDL	0.03
DM-78	Argentine Tunnel	0.38	0.22	BDL	BDL	BDL
DM-79	Iowa Mine - Southern Adit	9.12	9.43	BDL	BDL	46.30
DM-80	Duplicate of DM-77	10.21	10.41	BDL	BDL	0.07
DM-81	Duplicate if DM-43	11.14	11.88	BDL	BDL	0.37
ARD-1	Acidic drainage from Ben Franklin Waste Pile	128.98	0.55	BDL	1544.89	128.98
ARD-2	Acidic drainage from Howardsville Tails	7883.69	8799.44	BDL	6.93	10.51
ARD-3	Seepage near Silverton Lakes Campground	6662.10	7924.12	2.37	3.68	1.69
ARD-4	Seepage south of Silverton Lakes Campground	6088.90	7073.63	BDL	3.45	3.00
ARD-5	Duplicate of ARD-2	7725.19	8822.92	BDL	7.10	10.16
A-72	Animas Gage	1513263.07	835211.24	BDL	BDL	126693.52
A-68	Animas above Cement Creek	774396.62	496521.76	BDL	BDL	38303.11
M-34	Mineral Creek Gage	214480.52	115765.64	BDL	BDL	20191.68
C-48	Cement Creek Gage	191270.94	166779.95	BDL	BDL	9937.77

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Diss. Pb	Tot. Sb	Diss. Sb	Tot. Va	Diss. Va	Tot.Zn
		g/day	g/day	g/day	g/day	g/day	g/day
UA-12	Animas above Eureka Confluence	539.50	BDL	BDL	BDL	BDL	183675.73
LA-1	Animas below Eureka Confluence	526.79	BDL	BDL	BDL	BDL	273631.06
LA-2	Animas above Minnie Confluence	ND	ND	ND	ND	ND	ND
LA-3	Animas below Maggie Confluence	ND	ND	ND	ND	ND	ND
LA-4	Animas above Howardsville Tails	ND	ND	ND	ND	ND	ND
LA-5	Animas below Cunningham	1049.85	BDL	BDL	BDL	BDL	435388.81
LA-6	Animas above Arrastra	ND	ND	ND	ND	ND	ND
LA-7	Animas above Boulder	BDL	BDL	BDL	BDL	BDL	476116.23
LA-8	Animas below Boulder Creek	ND	ND	ND	ND	ND	ND
LA-9	Animas below Mayflower Tails	1948.74	BDL	BDL	BDL	BDL	591441.93
EG-0	Duplicate of EG-2A	21.07	BDL	BDL	BDL	BDL	30513.46
EG-2A	Eureka Gulch above Sunnyside	14.93	45.66	BDL	462.75	BDL	31558.38
EG-1	Eureka Gulch Headwaters	BDL	BDL	BDL	BDL	BDL	BDL
EG-3A	Eureka Gulch below Headwaters Confluence	BDL	BDL	BDL	BDL	BDL	90302.22
EG-4	Eureka Gulch above Confluence	BDL	BDL	BDL	BDL	BDL	22672.31
EG-5	Eureka Gulch below Tunnel	87.80	BDL	BDL	BDL	BDL	53246.61
EG-6	Eureka Gulch below Terry Tunnel	117.69	BDL	BDL	BDL	BDL	67383.92
EG-7	Eureka Gulch above South Fork	107.08	BDL	BDL	BDL	BDL	56218.25
EG-8	South Fork above Eureka Gulch	BDL	BDL	BDL	BDL	BDL	2783.03
EG-9	Eureka Gulch below South Fork	251.27	BDL	BDL	BDL	BDL	65854.77
EG-10	Eureka Gulch above Animas	235.89	BDL	BDL	BDL	BDL	65631.04
MI-1	Minnie Gulch above Esmerelda	BDL	BDL	BDL	BDL	BDL	BDL
MI-2	Minnie Gulch below Esmerelda	BDL	BDL	BDL	BDL	BDL	BDL
MI-3	Minnie Gulch above Tributary	94.08	BDL	BDL	BDL	BDL	BDL
MI-4	Tributary containing Kitti Mack	BDL	BDL	BDL	BDL	BDL	229.57
MI-5	Minnie Gulch below Tributary	BDL	BDL	BDL	BDL	BDL	BDL
MI-6	Minnie Gulch above Animas	BDL	BDL	BDL	BDL	BDL	917.91
MA-1	Maggie Gulch above Draining Mine	BDL	BDL	BDL	BDL	BDL	791.36
MA-2	Maggie Gulch below Upper Mines	BDL	BDL	BDL	BDL	BDL	1183.83
MA-3	Cryatal Lake Tributary	BDL	BDL	BDL	BDL	BDL	BDL
MA-4	Maggie Gulch above Little Maud	BDL	BDL	BDL	BDL	BDL	2985.55
MA-5	Maggie Gulch below Little Maud	BDL	BDL	BDL	BDL	BDL	2258.99
MA-6	Maggie Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL
CU-1	Cunningham Gulch below Spencer Creek	BDL	BDL	BDL	BDL	BDL	1558.60
CU-2	Cunningham Gulch above Royal Tiger	BDL	BDL	BDL	BDL	BDL	1322.60
CU-3	Cunningham Gulch below Highland Mary Tails	BDL	BDL	BDL	BDL	BDL	2051.03
CU-4	Cunningham Gulch below Dives Creek	234.06	BDL	BDL	BDL	BDL	13867.99
CU-5	Cunningham Gulch above Stony Gulch	260.68	BDL	BDL	BDL	BDL	6256.33
CU-6	Cunningham Gulch below Stony Gulch	341.55	BDL	BDL	BDL	BDL	11655.47
CU-7	Cunningham Gulch above Animas	442.42	BDL	BDL	BDL	BDL	22816.13
RG-1	Rocky Gulch below Buffalo Boy	BDL	BDL	BDL	BDL	BDL	BDL
RG-1	Rocky Gulch below Buffalo Boy	BDL	BDL	BDL	BDL	BDL	77.00
RG-2	Rein Gulch above waste piles	1.90	BDL	BDL	BDL	BDL	26.29
RG-3	Rein Gulch below waste piles	3.17	BDL	BDL	BDL	BDL	46.56
RG-3A	Rein Gulch above Rocky Gulch	2.53	BDL	BDL	BDL	BDL	70.00
RG-4	Rocky Gulch below Rein Gulch	BDL	BDL	BDL	BDL	BDL	203.53
RG-5	Duplicate of RG-3	BDL	BDL	BDL	BDL	BDL	38.64
SG-1	Stony Gulch headwaters	BDL	BDL	BDL	BDL	BDL	4.16
SG-2	Stony Gulch below draining mines	BDL	BDL	BDL	BDL	BDL	529.53
SG-3	Stony Gulch above Cunningham Gulch	60.65	BDL	BDL	BDL	BDL	2638.45
LG-1	Little Giant headwaters (main stream)	BDL	BDL	BDL	BDL	BDL	60.04
LG-2	Little Giant below lakes (main stream)	6.62	BDL	BDL	BDL	BDL	205.30

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Diss. Pb	Tot. Sb	Diss. Sb	Tot. Va	Diss. Va	Tot.Zn
		g/day	g/day	g/day	g/day	g/day	g/day
LG-3	Little Giant below Big Giant Mine (second stream)	BDL	BDL	BDL	BDL	BDL	BDL
LG-4	Little Giant above Arrastra (main stream)	BDL	BDL	BDL	BDL	BDL	15.98
LG-5	Little Giant above Arrastra (second stream)	BDL	BDL	BDL	BDL	BDL	88.74
LG-5	Little Giant above Arrastra (second stream)	BDL	BDL	BDL	BDL	BDL	18.08
LG-6	Little Giant above debris fan (main stream)	BDL	BDL	BDL	BDL	BDL	11.92
LG-6	Little Giant above debris fan (main stream)	BDL	BDL	BDL	BDL	BDL	2.22
LG-7	Duplicate of LG-4	BDL	BDL	BDL	BDL	BDL	4.12
LG-7	Duplicate of LG-2	7.10	BDL	BDL	BDL	BDL	203.41
AB-1	Arrastra above Silver Lake	BDL	BDL	BDL	BDL	BDL	143.93
AB-2	Arrastra below Silver Lake	70.58	BDL	BDL	BDL	BDL	7147.05
AB-4	Arrastra below Woodchuck	BDL	BDL	BDL	BDL	BDL	4179.56
AB-4	Arrastra below Woodchuck	BDL	BDL	BDL	BDL	BDL	5889.23
AB-5	Arrastra below Little Giant	87.47	BDL	BDL	BDL	BDL	8367.52
AB-6	Arrastra above Animas	160.93	BDL	BDL	BDL	BDL	12908.71
AB-7	Duplicate of AB-4	156.87	BDL	BDL	BDL	BDL	3944.25
AB-8	Duplicate of AB-2	139.15	BDL	BDL	BDL	BDL	7201.50
WB-2	Woodchuck before flowing into Unity Tunnel	22.87	BDL	BDL	BDL	BDL	303.38
WB-3	Drainage from lower portal of Unity Tunnel	BDL	BDL	BDL	BDL	BDL	10.22
DB-1	Dives Basin above Cunningham Gulch	BDL	BDL	BDL	BDL	BDL	0.00
DB-1	Dives Basin above Cunningham Gulch	6.97	BDL	BDL	BDL	BDL	688.52
HG-1	Hematite Gulch above Animas	BDL	BDL	BDL	BDL	BDL	491.15
BG-1	Boulder Gulch above Animas	BDL	BDL	BDL	BDL	BDL	5565.81
BG-2	Boulder Gulch above Mayflower Tailings	BDL	BDL	BDL	BDL	BDL	2735.06
BL-1	Blair Gulch above Animas	BDL	BDL	BDL	BDL	BDL	BDL
SW-1	Swansea Gulch above Animas	80.96	BDL	BDL	BDL	BDL	6176.72
DM-32	Ben Franklin Prospect	31.30	BDL	BDL	BDL	BDL	1020.45
DM-33	Bavarian Mine	9.49	BDL	BDL	BDL	BDL	73.71
DM-34	Draining mine above South Fork	BDL	BDL	BDL	BDL	BDL	1.45
DM-35	Moonbeam Mine	0.32	BDL	BDL	BDL	BDL	100.32
DM-36	Auburn Tunnel	BDL	BDL	BDL	BDL	BDL	90.02
DM-37	Unknown Draining Mine in Aspens	0.15	BDL	BDL	BDL	BDL	10.44
DM-38	Unknown Draining Mine across from Maggie Gulch	0.07	BDL	BDL	BDL	BDL	28.23
DM-39	Hamlet Mine	BDL	BDL	BDL	BDL	BDL	459.78
DM-40	Esmerelda Mine	BDL	BDL	BDL	BDL	BDL	2.43
DM-41	Little Maud Mine	BDL	BDL	BDL	BDL	BDL	0.03
DM-42	Progressive Mine	0.37	BDL	BDL	BDL	BDL	30.38
DM-43	Silver Star Mine	BDL	BDL	BDL	BDL	BDL	13.17
DM-44	Hidden Treasure Mine	BDL	BDL	BDL	BDL	BDL	0.92
DM-45	Old Hundred Mine	2.62	BDL	BDL	BDL	BDL	269.48
DM-46	Smuggler Mine	BDL	BDL	BDL	BDL	BDL	30.32
DM-47	Emma Mine	BDL	BDL	BDL	BDL	BDL	0.37
DM-49	Oyama Tunnel	0.11	BDL	BDL	BDL	BDL	3.34
DM-50	Unknown Draining Mine near top of Stony Pass	BDL	BDL	BDL	BDL	BDL	0.46
DM-51	Pride of the West Mine	5.63	BDL	BDL	BDL	BDL	1189.51
DM-52	Green Mountain Mine	1.73	BDL	BDL	BDL	BDL	119.78
DM-53	Innis Tunnel	0.63	BDL	BDL	BDL	BDL	97.94
DM-54	Bradley Tunnel	3.85	BDL	BDL	BDL	BDL	238.57
DM-55	Shenandoah Dives Mine	1.83	BDL	BDL	BDL	BDL	100.53
DM-56	Little Nation Mine	1.55	BDL	BDL	BDL	BDL	321.20
DM-57	Valley Forge Mine	BDL	BDL	BDL	BDL	BDL	24.84
DM-58	Ezra R Mine	0.11	BDL	BDL	BDL	BDL	7.06
DM-59	Solomon Mine	1.21	BDL	BDL	BDL	BDL	27.22

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Diss. Pb	Tot. Sb	Diss. Sb	Tot. Va	Diss. Va	Tot.Zn
		g/day	g/day	g/day	g/day	g/day	g/day
DM-60	Black Prince Mine	BDL	BDL	BDL	BDL	BDL	3.53
DM-61	Upper Iowa Mine	27.42	BDL	BDL	BDL	BDL	27.85
DM-62	Iowa Mine	5.19	BDL	BDL	BDL	BDL	113.91
DM-63	Royal Tiger Mine	371.41	BDL	BDL	BDL	BDL	3100.50
DM-64	Aspen Mine	BDL	BDL	BDL	BDL	BDL	2532.31
DM-65	Blair Mountain Tunnel	BDL	BDL	BDL	BDL	BDL	12.86
DM-66	Last Chance Mine	BDL	BDL	BDL	BDL	BDL	27.94
DM-67	Mighty Monarch Mine	BDL	BDL	BDL	BDL	BDL	43.20
DM-68	Kitti Mack Mine	2.85	BDL	BDL	BDL	BDL	752.44
DM-69	Ransom Mine	BDL	BDL	BDL	BDL	BDL	42.44
DM-71	Queen of Maggie Mine	BDL	BDL	BDL	BDL	BDL	1.66
DM-72	Unknown Draining mine in lower Minnie Gulch	0.01	BDL	BDL	BDL	BDL	1.81
DM-73	Little Casino Mine	BDL	BDL	BDL	BDL	BDL	1.63
DM-74	Midway Tunnel	0.04	BDL	BDL	BDL	BDL	3.01
DM-76	Pittsburg Tunnel/Malachite Falls	BDL	BDL	BDL	BDL	BDL	26.28
DM-77	Jess Mine	BDL	BDL	BDL	BDL	BDL	2.61
DM-78	Argentine Tunnel	0.05	BDL	BDL	BDL	BDL	2.74
DM-79	Iowa Mine - Southern Adit	43.30	BDL	BDL	BDL	BDL	479.56
DM-80	Duplicate of DM-77	BDL	BDL	BDL	BDL	BDL	2.74
DM-81	Duplicate if DM-43	BDL	BDL	BDL	BDL	BDL	5.27
ARD-1	Acidic drainage from Ben Franklin Waste Pile	139.48	BDL	BDL	BDL	BDL	1115.49
ARD-2	Acidic drainage from Howardsville Tails	2.11	BDL	BDL	BDL	BDL	4024.61
ARD-3	Seepage near Silverton Lakes Campground	0.44	BDL	BDL	BDL	BDL	714.57
ARD-4	Seepage south of Silverton Lakes Campground	1.81	BDL	BDL	BDL	BDL	323.92
ARD-5	Duplicate of ARD-2	1.94	BDL	BDL	BDL	BDL	3966.50
A-72	Animas Gage	BDL	BDL	BDL	BDL	BDL	995714.46
A-68	Animas above Cement Creek	1063.98	BDL	BDL	BDL	BDL	528086.36
M-34	Mineral Creek Gage	BDL	BDL	BDL	BDL	BDL	135359.05
C-48	Cement Creek Gage	997.94	BDL	BDL	BDL	BDL	243205.16

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Diss. Zn	Diss. Ca	Diss. Mg	Diss. K	Diss. Na
		g/day	kg/day	kg/day	kg/day	kg/day
UA-12	Animas above Eureka Confluence	181861.04	5983.56	559.12	BDL	215.80
LA-1	Animas below Eureka Confluence	256547.93	9181.24	842.87	BDL	338.65
LA-2	Animas above Minnie Confluence	ND	ND	ND	ND	ND
LA-3	Animas below Maggie Confluence	ND	ND	ND	ND	ND
LA-4	Animas above Howardsville Tails	ND	ND	ND	ND	ND
LA-5	Animas below Cunningham	359949.41	24746.52	1874.74	BDL	1139.84
LA-6	Animas above Arrastra	ND	ND	ND	ND	ND
LA-7	Animas above Boulder	367908.00	28467.09	2047.63	BDL	1298.50
LA-8	Animas below Boulder Creek	ND	ND	ND	ND	ND
LA-9	Animas below Mayflower Tails	540385.00	34102.91	2416.43	BDL	1539.50
EG-0	Duplicate of EG-2A	107.13	0.88	BDL	BDL	0.26
EG-2A	Eureka Gulch above Sunnyside	33314.56	261.67	17.91	BDL	4.57
EG-1	Eureka Gulch Headwaters	48.60	207.43	9.36	BDL	7.11
EG-3A	Eureka Gulch below Headwaters Confluence	90031.18	935.10	59.18	BDL	19.42
EG-4	Eureka Gulch above Confluence	19779.45	274.06	17.30	BDL	6.78
EG-5	Eureka Gulch below Tunnel	55880.54	1100.05	79.02	BDL	28.92
EG-6	Eureka Gulch below Terry Tunnel	66777.35	1484.75	111.36	BDL	43.46
EG-7	Eureka Gulch above South Fork	55517.35	1635.44	116.82	BDL	46.73
EG-8	South Fork above Eureka Gulch	2486.17	1991.41	123.69	BDL	72.98
EG-9	Eureka Gulch below South Fork	59892.90	3654.79	246.70	BDL	121.06
EG-10	Eureka Gulch above Animas	65028.20	4508.20	298.80	BDL	157.26
MI-1	Minnie Gulch above Esmerelda	BDL	735.98	75.47	BDL	59.25
MI-2	Minnie Gulch below Esmerelda	BDL	738.36	71.47	BDL	56.12
MI-3	Minnie Gulch above Tributary	BDL	1373.60	118.54	BDL	86.56
MI-4	Tributary containing Kitti Mack	217.38	335.21	24.18	BDL	16.66
MI-5	Minnie Gulch below Tributary	BDL	2025.61	167.91	BDL	121.27
MI-6	Minnie Gulch above Animas	569.34	1800.96	147.56	BDL	120.84
MA-1	Maggie Gulch above Draining Mine	1550.01	600.39	78.48	BDL	42.51
MA-2	Maggie Gulch below Upper Mines	427.25	822.45	112.15	BDL	59.64
MA-3	Cryatal Lake Tributary	140.27	299.56	14.98	BDL	10.22
MA-4	Maggie Gulch above Little Maud	943.82	1802.89	240.77	BDL	129.05
MA-5	Maggie Gulch below Little Maud	BDL	1933.70	229.51	BDL	130.12
MA-6	Maggie Gulch above Animas	BDL	BDL	BDL	BDL	BDL
CU-1	Cunningham Gulch below Spencer Creek	1163.76	1581.46	151.70	BDL	112.22
CU-2	Cunningham Gulch above Royal Tiger	17064.13	2059.11	243.77	BDL	147.82
CU-3	Cunningham Gulch below Highland Mary Tails	BDL	2396.61	272.53	BDL	168.58
CU-4	Cunningham Gulch below Dives Creek	4534.89	2560.02	254.54	BDL	163.84
CU-5	Cunningham Gulch above Stony Gulch	2280.95	3388.85	325.85	BDL	205.29
CU-6	Cunningham Gulch below Stony Gulch	6062.55	5464.84	456.83	BDL	277.51
CU-7	Cunningham Gulch above Animas	6320.26	8469.14	682.59	BDL	467.70
RG-1	Rocky Gulch below Buffalo Boy	0.95	9.42	0.64	0.11	0.24
RG-1	Rocky Gulch below Buffalo Boy	80.47	65.76	5.11	BDL	1.72
RG-2	Rein Gulch above waste piles	BDL	35.48	2.50	BDL	1.43
RG-3	Rein Gulch below waste piles	47.51	40.23	2.98	BDL	1.77
RG-3A	Rein Gulch above Rocky Gulch	43.39	38.64	2.98	BDL	1.71
RG-4	Rocky Gulch below Rein Gulch	148.85	265.81	17.92	BDL	12.91
RG-5	Duplicate of RG-3	32.62	39.28	3.04	BDL	1.74
SG-1	Stony Gulch headwaters	BDL	2.32	0.19	BDL	0.09
SG-2	Stony Gulch below draining mines	812.93	563.09	42.51	BDL	19.76
SG-3	Stony Gulch above Cunningham Gulch	1314.17	1769.07	123.33	BDL	68.74
LG-1	Little Giant headwaters (main stream)	64.14	23.84	0.72	BDL	0.51
LG-2	Little Giant below lakes (main stream)	231.32	41.96	1.23	BDL	0.99

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Diss. Zn	Diss. Ca	Diss. Mg	Diss. K	Diss. Na
		g/day	kg/day	kg/day	kg/day	kg/day
LG-3	Little Giant below Big Giant Mine (second stream)	BDL	13.67	0.66	0.61	0.54
LG-4	Little Giant above Arrastra (main stream)	BDL	5.96	0.56	BDL	0.36
LG-5	Little Giant above Arrastra (second stream)	87.83	39.25	1.49	BDL	1.18
LG-5	Little Giant above Arrastra (second stream)	42.32	10.13	0.37	0.64	0.28
LG-6	Little Giant above debris fan (main stream)	7.78	13.17	0.89	BDL	1.23
LG-6	Little Giant above debris fan (main stream)	2.70	4.85	0.30	BDL	0.34
LG-7	Duplicate of LG-4	12.16	28.72	0.96	BDL	1.35
LG-7	Duplicate of LG-2	215.71	38.13	1.32	BDL	1.04
AB-1	Arrastra above Silver Lake	475.52	166.50	4.09	BDL	4.52
AB-2	Arrastra below Silver Lake	7020.00	153.06	8.27	6.25	5.44
AB-4	Arrastra below Woodchuck	4269.20	930.04	44.82	BDL	42.58
AB-4	Arrastra below Woodchuck	5745.26	1432.89	71.30	32.91	67.19
AB-5	Arrastra below Little Giant	9290.77	1603.53	77.75	BDL	73.86
AB-6	Arrastra above Animas	15334.12	1908.14	88.51	BDL	89.66
AB-7	Duplicate of AB-4	4885.49	846.00	41.46	BDL	41.46
AB-8	Duplicate of AB-2	7078.48	150.64	8.07	BDL	5.44
WB-2	Woodchuck before flowing into Unity Tunnel	383.44	34.49	1.63	BDL	1.32
WB-3	Drainage from lower portal of Unity Tunnel	12.76	6.89	0.41	BDL	0.30
DB-1	Dives Basin above Cunningham Gulch	0.00	0.00	0.00	0.00	0.00
DB-1	Dives Basin above Cunningham Gulch	646.72	204.35	8.59	BDL	4.76
HG-1	Hematite Gulch above Animas	331.60	531.82	23.78	BDL	23.15
BG-1	Boulder Gulch above Animas	2894.54	877.13	44.65	BDL	43.06
BG-2	Boulder Gulch above Mayflower Tailings	1794.14	853.21	41.46	BDL	41.46
BL-1	Blair Gulch above Animas	102.75	27.75	0.89	BDL	1.52
SW-1	Swansea Gulch above Animas	3683.77	354.21	23.28	BDL	20.24
DM-32	Ben Franklin Prospect	1056.79	147.41	28.67	BDL	2.36
DM-33	Bavarian Mine	75.10	0.76	0.06	BDL	0.02
DM-34	Draining mine above South Fork	1.13	15.84	0.21	BDL	0.47
DM-35	Moonbeam Mine	90.55	19.42	0.84	BDL	0.49
DM-36	Auburn Tunnel	86.34	68.74	2.49	BDL	1.65
DM-37	Unknown Draining Mine in Aspens	11.70	19.45	0.91	BDL	0.54
DM-38	Unknown Draining Mine across from Maggie Gulch	26.72	10.83	0.41	BDL	0.43
DM-39	Hamlet Mine	444.64	168.88	8.93	BDL	5.85
DM-40	Esmerelda Mine	BDL	11.88	0.84	BDL	0.75
DM-41	Little Maud Mine	BDL	0.06	0.01	0.01	0.02
DM-42	Progressive Mine	32.23	24.30	1.31	BDL	1.46
DM-43	Silver Star Mine	5.27	50.85	1.21	BDL	2.36
DM-44	Hidden Treasure Mine	0.70	2.50	0.21	BDL	0.16
DM-45	Old Hundred Mine	249.69	240.86	8.25	BDL	9.44
DM-46	Smuggler Mine	33.13	2.79	0.45	BDL	0.23
DM-47	Emma Mine	0.25	5.57	0.30	BDL	0.19
DM-49	Oyama Tunnel	2.87	13.21	1.56	BDL	1.35
DM-50	Unknown Draining Mine near top of Stony Pass	0.46	1.14	0.12	BDL	0.06
DM-51	Pride of the West Mine	1128.39	39.73	2.62	BDL	0.77
DM-52	Green Mountain Mine	140.23	5.10	0.24	BDL	0.18
DM-53	Innis Tunnel	102.61	36.11	1.73	BDL	1.09
DM-54	Bradley Tunnel	255.43	7.40	0.46	BDL	0.13
DM-55	Shenandoah Dives Mine	93.81	6.63	0.27	0.23	0.15
DM-56	Little Nation Mine	354.34	53.08	3.61	BDL	2.02
DM-57	Valley Forge Mine	36.88	48.26	2.69	BDL	2.52
DM-58	Ezra R Mine	6.71	3.53	0.05	BDL	0.12
DM-59	Solomon Mine	24.68	5.26	0.22	BDL	0.20

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Diss. Zn	Diss. Ca	Diss. Mg	Diss. K	Diss. Na
		g/day	kg/day	kg/day	kg/day	kg/day
DM-60	Black Prince Mine	2.52	2.72	0.08	0.13	0.06
DM-61	Upper Iowa Mine	27.19	0.01	0.00	0.00	0.00
DM-62	Iowa Mine	94.63	0.53	0.04	0.09	0.02
DM-63	Royal Tiger Mine	3057.06	9.18	2.03	0.20	0.18
DM-64	Aspen Mine	2787.31	230.21	5.60	BDL	5.93
DM-65	Blair Mountain Tunnel	10.17	26.71	0.45	BDL	0.75
DM-66	Last Chance Mine	45.63	30.33	1.61	BDL	1.78
DM-67	Mighty Monarch Mine	50.52	3.85	0.27	BDL	0.19
DM-68	Kitti Mack Mine	672.57	21.16	1.81	BDL	1.51
DM-69	Ransom Mine	48.21	36.87	1.27	BDL	0.82
DM-71	Queen of Maggie Mine	3.57	1.90	0.54	BDL	0.13
DM-72	Unknown Draining mine in lower Minnie Gulch	2.23	1.69	0.19	0.04	0.11
DM-73	Little Casino Mine	1.06	0.15	0.03	BDL	0.01
DM-74	Midway Tunnel	3.12	17.87	0.48	BDL	0.62
DM-76	Pittsburg Tunnel/Malachite Falls	27.98	1.64	0.32	BDL	0.05
DM-77	Jess Mine	2.49	1.64	0.08	BDL	0.06
DM-78	Argentine Tunnel	3.65	5.59	0.18	BDL	0.25
DM-79	Iowa Mine - Southern Adit	477.91	0.73	0.06	0.04	0.02
DM-80	Duplicate of DM-77	2.55	1.65	0.08	BDL	0.06
DM-81	Duplicate if DM-43	7.03	51.78	1.24	BDL	2.47
ARD-1	Acidic drainage from Ben Franklin Waste Pile	1172.26	5.22	139.48	BDL	0.14
ARD-2	Acidic drainage from Howardsville Tails	4408.53	41.50	4.39	1.76	1.57
ARD-3	Seepage near Silverton Lakes Campground	793.08	14.59	1.24	0.50	0.46
ARD-4	Seepage south of Silverton Lakes Campground	363.16	44.31	1.88	0.58	1.04
ARD-5	Duplicate of ARD-2	4421.44	41.74	4.43	1.70	1.57
A-72	Animas Gage	694770.91	71706.30	5424.41	BDL	3418.12
A-68	Animas above Cement Creek	398458.71	31032.61	2252.08	BDL	1400.90
M-34	Mineral Creek Gage	81215.43	25576.13	2108.91	BDL	1420.90
C-48	Cement Creek Gage	239795.55	12099.97	910.62	BDL	424.12

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Hardness	Flouride	Cl	SO4	Si
		kg/day	kg/day	kg/day	kg/day	kg/day
UA-12	Animas above Eureka Confluence	17264.05	BDL	BDL	10544.80	1486.08
LA-1	Animas below Eureka Confluence	26414.88	BDL	BDL	16255.31	1843.77
LA-2	Animas above Minnie Confluence	ND	ND	ND	ND	ND
LA-3	Animas below Maggie Confluence	ND	ND	ND	ND	ND
LA-4	Animas above Howardsville Tails	ND	ND	ND	ND	ND
LA-5	Animas below Cunningham	69440.24	299.96	BDL	34195.19	5954.16
LA-6	Animas above Arrastra	ND	ND	ND	ND	ND
LA-7	Animas above Boulder	79574.67	349.60	BDL	38954.96	6775.50
LA-8	Animas below Boulder Creek	ND	ND	ND	ND	ND
LA-9	Animas below Mayflower Tails	95098.41	448.21	BDL	48328.70	8204.19
EG-0	Duplicate of EG-2A	BDL	5.27	BDL	691.05	44.61
EG-2A	Eureka Gulch above Sunnyside	727.05	BDL	BDL	161.57	27.13
EG-1	Eureka Gulch Headwaters	557.09	7.23	BDL	918.60	59.26
EG-3A	Eureka Gulch below Headwaters Confluence	2579.42	16.71	BDL	2199.96	172.56
EG-4	Eureka Gulch above Confluence	755.74	4.15	BDL	602.10	49.55
EG-5	Eureka Gulch below Tunnel	3072.91	11.36	BDL	2034.84	185.92
EG-6	Eureka Gulch below Terry Tunnel	4164.53	BDL	BDL	2634.52	306.00
EG-7	Eureka Gulch above South Fork	4565.60	BDL	BDL	2638.12	268.68
EG-8	South Fork above Eureka Gulch	5479.47	BDL	BDL	2956.20	387.15
EG-9	Eureka Gulch below South Fork	10142.05	BDL	BDL	5710.61	726.39
EG-10	Eureka Gulch above Animas	12476.19	BDL	BDL	7417.57	990.76
MI-1	Minnie Gulch above Esmerelda	2145.56	BDL	BDL	212.06	172.14
MI-2	Minnie Gulch below Esmerelda	2138.30	BDL	BDL	218.56	167.76
MI-3	Minnie Gulch above Tributary	3913.82	BDL	BDL	837.33	294.48
MI-4	Tributary containing Kitti Mack	936.56	BDL	BDL	288.48	71.11
MI-5	Minnie Gulch below Tributary	5743.66	BDL	BDL	1332.64	443.77
MI-6	Minnie Gulch above Animas	5100.78	BDL	BDL	1533.72	501.95
MA-1	Maggie Gulch above Draining Mine	1824.70	BDL	BDL	510.13	145.19
MA-2	Maggie Gulch below Upper Mines	2518.97	BDL	BDL	801.09	215.40
MA-3	Cryatal Lake Tributary	810.71	BDL	BDL	192.57	54.92
MA-4	Maggie Gulch above Little Maud	5489.56	BDL	BDL	1136.44	487.32
MA-5	Maggie Gulch below Little Maud	5764.94	BDL	BDL	1265.03	509.63
MA-6	Maggie Gulch above Animas	0.00	BDL	BDL	3578.76	733.65
CU-1	Cunningham Gulch below Spencer Creek	4571.90	BDL	BDL	498.75	444.72
CU-2	Cunningham Gulch above Royal Tiger	6146.20	BDL	BDL	518.67	567.94
CU-3	Cunningham Gulch below Highland Mary Tails	7108.36	BDL	BDL	BDL	654.64
CU-4	Cunningham Gulch below Dives Creek	7431.37	BDL	BDL	906.98	658.29
CU-5	Cunningham Gulch above Stony Gulch	9808.10	BDL	BDL	1564.08	814.63
CU-6	Cunningham Gulch below Stony Gulch	15540.63	BDL	BDL	3927.85	1152.74
CU-7	Cunningham Gulch above Animas	23953.78	BDL	BDL	5941.04	1889.76
RG-1	Rocky Gulch below Buffalo Boy	26.22	BDL	BDL	18.68	1.32
RG-1	Rocky Gulch below Buffalo Boy	185.24	BDL	BDL	146.03	10.33
RG-2	Rein Gulch above waste piles	98.82	BDL	BDL	19.32	7.86
RG-3	Rein Gulch below waste piles	112.76	BDL	BDL	24.71	10.55
RG-3A	Rein Gulch above Rocky Gulch	108.64	BDL	BDL	24.39	9.72
RG-4	Rocky Gulch below Rein Gulch	738.19	BDL	BDL	274.92	56.20
RG-5	Duplicate of RG-3	110.54	BDL	BDL	25.02	9.79
SG-1	Stony Gulch headwaters	6.58	BDL	BDL	BDL	BDL
SG-2	Stony Gulch below draining mines	1581.12	BDL	BDL	559.36	79.80
SG-3	Stony Gulch above Cunningham Gulch	4923.08	BDL	BDL	1607.33	310.35
LG-1	Little Giant headwaters (main stream)	62.60	BDL	BDL	6.67	BDL
LG-2	Little Giant below lakes (main stream)	109.75	BDL	BDL	15.61	5.53

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Hardness	Flouride	Cl	SO4	Si
		kg/day	kg/day	kg/day	kg/day	kg/day
LG-3	Little Giant below Big Giant Mine (second stream)	36.81	BDL	BDL	10.22	3.69
LG-4	Little Giant above Arrastra (main stream)	17.19	BDL	BDL	3.87	1.53
LG-5	Little Giant above Arrastra (second stream)	104.13	BDL	BDL	20.37	8.24
LG-5	Little Giant above Arrastra (second stream)	26.83	BDL	BDL	6.06	1.93
LG-6	Little Giant above debris fan (main stream)	36.51	BDL	BDL	8.41	6.78
LG-6	Little Giant above debris fan (main stream)	13.34	BDL	BDL	3.72	1.85
LG-7	Duplicate of LG-4	75.55	0.16	BDL	5.13	4.08
LG-7	Duplicate of LG-2	100.76	BDL	BDL	11.35	5.53
AB-1	Arrastra above Silver Lake	433.19	BDL	BDL	BDL	18.91
AB-2	Arrastra below Silver Lake	415.43	BDL	BDL	127.05	27.02
AB-4	Arrastra below Woodchuck	2504.37	BDL	BDL	784.37	160.80
AB-4	Arrastra below Woodchuck	3873.59	BDL	BDL	1398.61	235.16
AB-5	Arrastra below Little Giant	4324.68	BDL	BDL	1389.73	290.58
AB-6	Arrastra above Animas	5126.70	BDL	BDL	1689.74	368.98
AB-7	Duplicate of AB-4	2285.87	BDL	BDL	801.18	166.96
AB-8	Duplicate of AB-2	409.38	BDL	BDL	127.05	27.83
WB-2	Woodchuck before flowing into Unity Tunnel	92.70	BDL	BDL	BDL	6.92
WB-3	Drainage from lower portal of Unity Tunnel	18.90	BDL	BDL	7.71	1.09
DB-1	Dives Basin above Cunningham Gulch	0.00	BDL	BDL	0.00	0.00
DB-1	Dives Basin above Cunningham Gulch	545.71	BDL	BDL	156.75	27.75
HG-1	Hematite Gulch above Animas	1426.52	BDL	BDL	406.68	111.06
BG-1	Boulder Gulch above Animas	2376.24	BDL	BDL	661.84	244.80
BG-2	Boulder Gulch above Mayflower Tailings	2304.47	BDL	BDL	598.05	240.02
BL-1	Blair Gulch above Animas	72.98	0.28	BDL	40.54	8.17
SW-1	Swansea Gulch above Animas	981.66	BDL	BDL	296.86	108.29
DM-32	Ben Franklin Prospect	484.64	0.98	BDL	454.35	15.95
DM-33	Bavarian Mine	2.17	BDL	BDL	2.38	0.32
DM-34	Draining mine above South Fork	40.42	0.11	BDL	35.59	1.78
DM-35	Moonbeam Mine	51.98	0.40	BDL	29.93	2.97
DM-36	Auburn Tunnel	181.70	0.69	BDL	143.60	8.49
DM-37	Unknown Draining Mine in Aspens	52.28	0.19	BDL	35.96	3.10
DM-38	Unknown Draining Mine across from Maggie Gulch	28.74	0.11	BDL	21.73	1.86
DM-39	Hamlet Mine	458.23	2.55	BDL	369.67	18.95
DM-40	Esmerelda Mine	33.10	BDL	BDL	8.91	1.86
DM-41	Little Maud Mine	0.18	0.00	BDL	0.05	0.01
DM-42	Progressive Mine	66.04	0.38	BDL	35.24	5.08
DM-43	Silver Star Mine	131.75	0.48	BDL	106.32	6.80
DM-44	Hidden Treasure Mine	7.12	0.07	BDL	3.68	0.73
DM-45	Old Hundred Mine	634.35	2.72	BDL	462.65	33.15
DM-46	Smuggler Mine	8.82	0.06	BDL	7.59	1.29
DM-47	Emma Mine	15.18	0.03	BDL	11.02	0.67
DM-49	Oyama Tunnel	39.33	0.08	BDL	24.58	1.21
DM-50	Unknown Draining Mine near top of Stony Pass	3.31	BDL	BDL	1.90	0.13
DM-51	Pride of the West Mine	110.26	BDL	BDL	58.01	3.14
DM-52	Green Mountain Mine	13.78	BDL	BDL	4.50	0.56
DM-53	Innis Tunnel	97.59	BDL	BDL	39.87	3.49
DM-54	Bradley Tunnel	20.29	0.04	BDL	17.01	0.84
DM-55	Shenandoah Dives Mine	17.70	BDL	BDL	5.90	0.98
DM-56	Little Nation Mine	147.69	0.73	BDL	135.47	12.33
DM-57	Valley Forge Mine	131.98	0.67	BDL	39.46	9.87
DM-58	Ezra R Mine	8.99	0.02	BDL	5.29	0.47
DM-59	Solomon Mine	14.03	BDL	BDL	3.01	1.09

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

Animas River Below Eureka
High-Flow Loading Data

Site #	Description	Hardness	Flouride	Cl	SO4	Si
		kg/day	kg/day	kg/day	kg/day	kg/day
DM-60	Black Prince Mine	7.11	BDL	BDL	0.91	0.43
DM-61	Upper Iowa Mine	0.03	BDL	BDL	0.11	0.01
DM-62	Iowa Mine	1.50	BDL	BDL	0.85	BDL
DM-63	Royal Tiger Mine	31.22	0.15	BDL	53.76	2.77
DM-64	Aspen Mine	598.55	1.61	BDL	510.00	25.32
DM-65	Blair Mountain Tunnel	68.53	0.16	BDL	61.64	2.07
DM-66	Last Chance Mine	82.32	0.27	0.34	54.90	8.43
DM-67	Mighty Monarch Mine	10.74	0.05	0.03	6.75	0.84
DM-68	Kitti Mack Mine	60.54	0.14	BDL	28.39	2.75
DM-69	Ransom Mine	97.34	0.36	BDL	82.43	3.05
DM-71	Queen of Maggie Mine	6.97	0.02	BDL	2.26	0.53
DM-72	Unknown Draining mine in lower Minnie Gulch	5.01	0.02	BDL	5.03	0.82
DM-73	Little Casino Mine	0.49	0.01	BDL	0.25	0.04
DM-74	Midway Tunnel	46.60	0.12	BDL	45.82	1.76
DM-76	Pittsburg Tunnel/Malachite Falls	5.41	0.01	0.04	4.63	0.37
DM-77	Jess Mine	4.44	0.02	BDL	3.26	0.48
DM-78	Argentine Tunnel	14.69	0.03	BDL	9.52	0.69
DM-79	Iowa Mine - Southern Adit	2.06	0.03	BDL	2.34	0.25
DM-80	Duplicate of DM-77	4.47	0.02	BDL	3.26	0.51
DM-81	Duplicate if DM-43	134.52	0.48	BDL	106.79	7.12
ARD-1	Acidic drainage from Ben Franklin Waste Pile	15.28	0.13	BDL	29.06	1.52
ARD-2	Acidic drainage from Howardsville Tails	121.51	1.36	1.87	142.65	7.51
ARD-3	Seepage near Silverton Lakes Campground	41.59	0.37	0.13	52.37	1.62
ARD-4	Seepage south of Silverton Lakes Campground	118.32	0.68	0.08	37.45	3.80
ARD-5	Duplicate of ARD-2	122.69	1.36	1.87	142.65	7.46
A-72	Animas Gage	201372.10	743.07	BDL	129294.27	21103.20
A-68	Animas above Cement Creek	86713.98	390.12	BDL	44332.30	7767.02
M-34	Mineral Creek Gage	72540.48	BDL	BDL	43075.59	9213.39
C-48	Cement Creek Gage	33971.38	170.48	BDL	34387.19	4199.64

Flow Estimated for Stations LA-1, CU-1, CU-2, CU-3, CU-5 and CU-6

APPENDIX 3 – MINE WASTE DATA

Animas River Below Eureka
Mine Waste Data

Sample #	Description	pH	Total Acidity	Conductivity	Ag	Al	As	B
		s.u.	mg/l	uS/cm	ppb	ppb	ppb	ppb
1	Sunnyside Mine	4.63	72	433	6.5	2354.8	BDL	84.0
2	Clipper Mine	2.66	832	2,390	BDL	9804.9	BDL	199.9
3	Ben Franklin Prospect	4.28	10.4	71	BDL	80.4	BDL	69.7
4	Ben Franklin Mine	2.98	762	1,800	9.5	32292.6	BDL	498.2
5	Bavarian Mine	4.34	10	123	BDL	109.5	26.9	75.3
6	Midway Mine	3.51	16	229	BDL	1030.9	BDL	43.0
7	Moonbeam Mine	4.28	12	83	BDL	1310.5	BDL	46.3
8	Eureka Tailings	4.69	72	521	10.2	297.8	BDL	71.9
9	Minnie Gulch Tailings	5.33	176	942	38.7	373.8	BDL	90.0
10	Caledonia Mine	3.74	168	378	6.9	6029.2	BDL	42.8
11	Kitti Mack Mine	3.23	84	540	BDL	1807.8	BDL	37.6
12	Auburn Tunnel	4.28	6.4	82	BDL	118.3	BDL	24.7
13	Kitti Mack Tailings	4.54	9.6	77	BDL	415.9	BDL	31.0
14	DM-37 Mainstem	4.66	3.4	36	BDL	46.3	BDL	54.2
15	Hamlet Mine	5.22	15.8	102	BDL	75.0	27.5	57.4
16	SF Eureka west DM	4.41	12.3	71	BDL	198.5	20.6	19.6
17	SF Eureka east DM	3.33	29.4	195	1.1	350.2	BDL	14.8
18	Progressive Mine	4.52	8.6	202	BDL	432.3	BDL	23.1
20	Mill Tailings below Cunningham	5.45	13.6	96	BDL	263.7	BDL	38.4
21	Hidden Treasure Mine	3.02	56	455	BDL	905.0	BDL	59.6
22	Old 100 Tailings	4.04	12	136	BDL	171.4	BDL	53.9
23	Gary Owen Mine	4.77	17.4	167	BDL	45.4	BDL	53.4
24	Antiperiodic Mine	5.2	5.2	81	BDL	34.5	BDL	25.0
25	Iron Mask Mine	3.84	14.8	108	BDL	75.9	32.1	36.4
26	Buffalo Boy Tailings	3.17	215	1150	BDL	6764.4	BDL	54.7
27	Osceola Mine	5.8	1.4	175	BDL	32.7	BDL	42.7
28	Dump below Buffalo Boy	4.44	11.2	594	BDL	772.6	BDL	44.9
29	Buffalo Boy Mine	3.97	29	261	BDL	324.5	BDL	23.8
33	Green Mountain Mine	5.4	26	246	BDL	20.4	BDL	58.1
34	Spotted Pup Mine	4.99	4.4	40	BDL	136.0	32.9	20.7
35	Highland Mary Tailings	5.6	1.6	128	16.6	10342.9	BDL	58.4
36	Innis Tunnel	5.74	2	92	BDL	132.1	BDL	BDL
37	Bradley Tunnel	5.14	1.4	63	BDL	190.0	BDL	66.4
38	Highland Mary #7 Level	5.5	1.6	366	BDL	36.2	BDL	19.0
39	Mill Tailings above Arrastra	4.77	72	423	13.1	1216.9	BDL	51.8
40	Arrastra Mill Tailings	4.61	75	367	7.8	53.2	BDL	40.6
41	King Solomon Mine	4.34	12.4	66	BDL	204.8	62.5	40.5
42	Black Prince Mine	5.54	2	80	BDL	80.9	BDL	15.9
43	Gold Lake Tailings	5.83	5.2	61.6	14.0	144.0	BDL	BDL
45	Unity Tunnel	5.96	2.4	58	BDL	206.6	BDL	26.3
47	Silver Lake Tailings	5.68	3	64	BDL	18.9	BDL	55.8
49	Iowa Mine	5.01	9.4	56	BDL	BDL	BDL	32.1
50	Royal Tiger Mine	4.49	10.2	72	BDL	111.9	BDL	7.1
52	Aspen Mine	4.84	33	143	BDL	456.3	BDL	59.8
53	Tailings below Mayflower	6.06	40	1303	14.8	59.3	BDL	37.4
55	Last Chance Mine	4.51	5.6	35	BDL	32.3	BDL	BDL
56	Little Casino Mine	3.79	83.8	1120	BDL	9871.9	BDL	BDL
57	Woodchuck Basin	5.6	1.4	39	BDL	45.2	BDL	BDL
58	Idaho Mine	3.88	27.8	363	BDL	745.9	BDL	BDL
61	Vegetated Soil Blair-Swansea	6.21	4.4	24	BDL	658.8	BDL	BDL
62	Alpine Soil	6.46	3.2	16	BDL	202.6	BDL	32.2
63	Maggie Gulch Scree	6.27	2.4	20	BDL	72.2	BDL	BDL
64	Eureka Mixed tails & stream gravels	6.17	4	49	BDL	271.9	BDL	BDL
65	Animas Sediments below Cement	5.43	1.6	127	BDL	56.2	BDL	BDL
66	Blair Gulch Tailings	4.04	117	993	37.6	4555.7	BDL	36.2

Animas River Below Eureka
Mine Waste Data

Sample #	Description	Ba	Be	Ca	Cd	Co	Cr	Cu
		ppb	ppb	ppm	ppb	ppb	ppb	ppb
1	Sunnyside Mine	88.8	BDL	52.9	133.8	BDL	BDL	605.0
2	Clipper Mine	3.3	2.2	51.1	362.6	BDL	BDL	11752.4
3	Ben Franklin Prospect	28.6	BDL	2.0	1.9	BDL	BDL	32.1
4	Ben Franklin Mine	30.4	4.4	38.8	153.9	102.3	BDL	5106.2
5	Bavarian Mine	77.3	BDL	8.4	4.9	BDL	BDL	272.7
6	Midway Mine	23.6	BDL	15.3	1.9	BDL	BDL	71.2
7	Moonbeam Mine	18.5	BDL	4.4	6.1	BDL	BDL	18.6
8	Eureka Tailings	31.2	1.3	41349.3	272.0	BDL	BDL	494.6
9	Minnie Gulch Tailings	13.1	1.4	43256.3	1103.9	6.0	BDL	316.5
10	Caledonia Mine	41.2	2.6	143.4	255.0	60.1	BDL	3933.8
11	Kitti Mack Mine	84.0	2.3	35.5	49.4	BDL	BDL	4252.8
12	Auburn Tunnel	8.4	BDL	3.2	1.8	BDL	BDL	84.9
13	Kitti Mack Tailings	64.2	BDL	3.9	12.6	BDL	BDL	1101.6
14	DM-37 Mainstem	7.7	BDL	2244.3	BDL	BDL	BDL	6.4
15	Hamlet Mine	52.6	BDL	16.0	29.2	BDL	BDL	396.0
16	SF Eureka west DM	13.0	2.5	2907.6	3.4	5.3	BDL	8.1
17	SF Eureka east DM	4.6	BDL	4335.3	4.2	BDL	BDL	44.5
18	Progressive Mine	16.7	BDL	27.8	9.0	BDL	BDL	78.9
20	Mill Tailings below Cunningham	23.6	BDL	7.3	37.9	BDL	BDL	168.7
21	Hidden Treasure Mine	9.1	BDL	21.2	3.2	BDL	BDL	142.2
22	Old 100 Tailings	56.4	BDL	10379.1	20.9	BDL	BDL	290.3
23	Gary Owen Mine	78.2	BDL	19.0	74.6	BDL	BDL	185.9
24	Antiperiodic Mine	145.8	BDL	9.0	5.7	BDL	BDL	164.6
25	Iron Mask Mine	6.4	BDL	11.4	BDL	BDL	BDL	73.9
26	Buffalo Boy Tailings	10.8	2.3	48.4	293.6	BDL	BDL	9349.4
27	Osceola Mine	15.1	BDL	24.4	2.7	BDL	BDL	12.4
28	Dump below Buffalo Boy	62.9	BDL	106.5	BDL	BDL	BDL	8.0
29	Buffalo Boy Mine	18.6	BDL	11.8	BDL	BDL	BDL	115.1
33	Green Mountain Mine	45.6	BDL	29.3	139.4	BDL	BDL	85.9
34	Spotted Pup Mine	57.7	BDL	11.0	8.1	BDL	BDL	201.0
35	Highland Mary Tailings	84.1	BDL	23.4	5.4	BDL	BDL	77.0
36	Innis Tunnel	24.9	BDL	11.4	BDL	BDL	BDL	24.8
37	Bradley Tunnel	44.9	BDL	21.5	1.3	BDL	BDL	33.0
38	Highland Mary #7 Level	141.1	BDL	59.8	9.7	BDL	BDL	51.7
39	Mill Tailings above Arrastra	13.7	1.3	21584.1	152.2	12.9	BDL	2183.5
40	Arrastra Mill Tailings	18.1	BDL	15041.3	227.7	8.1	BDL	2319.4
41	King Solomon Mine	20.2	BDL	16250.8	1.5	BDL	BDL	525.7
42	Black Prince Mine	12.4	BDL	17119.7	BDL	BDL	BDL	10.5
43	Gold Lake Tailings	57.9	BDL	8611.3	18.1	BDL	BDL	860.0
45	Unity Tunnel	99.7	BDL	7670.3	BDL	BDL	BDL	50.9
47	Silver Lake Tailings	73.8	BDL	5871.8	14.6	BDL	BDL	65.3
49	Iowa Mine	45.2	BDL	37614.3	66.2	BDL	BDL	14.1
50	Royal Tiger Mine	74.1	BDL	4506.0	8.6	BDL	BDL	167.9
52	Aspen Mine	84.3	BDL	9469.0	103.4	BDL	BDL	1289.7
53	Tailings below Mayflower	1.2	BDL	277653.3	83.0	9.2	BDL	47.4
55	Last Chance Mine	23.7	BDL	1768.3	1.6	BDL	BDL	10.7
56	Little Casino Mine	84.7	2.3	213291.8	39.4	BDL	BDL	542.3
57	Woodchuck Basin	40.8	BDL	5008.9	8.7	BDL	BDL	27.2
58	Idaho Mine	233.2	1.5	33483.9	13.6	BDL	BDL	454.6
61	Vegetated Soil Blair-Swansea	33.2	BDL	8208.9	BDL	BDL	BDL	7.1
62	Alpine Soil	18.2	BDL	6680.6	BDL	BDL	BDL	6.9
63	Maggie Gulch Scree	9.9	BDL	2779.2	BDL	BDL	BDL	2.8
64	Eureka Mixed tails & stream gravels	11.5	BDL	6280.4	1.7	BDL	BDL	21.5
65	Animas Sediments below Cement	9.4	BDL	19488.2	2.1	BDL	BDL	3.8
66	Blair Gulch Tailings	25.8	1.9	119299.2	232.2	23.0	BDL	1934.1

Animas River Below Eureka
Mine Waste Data

Sample #	Description	Fe	K	Li	Mg	Mn	Mo	Na
		ppb	ppm	ppb	ppm	ppb	ppb	ppm
1	Sunnyside Mine	BDL	1.6	9.4	3.8	31575.3	6.4	1.9
2	Clipper Mine	130980.1	0.6	26.7	6.7	92724.2	BDL	0.9
3	Ben Franklin Prospect	258.3	1.2	BDL	0.5	106.1	BDL	1.1
4	Ben Franklin Mine	243285.6	0.7	65.6	17.0	39544.1	BDL	3.4
5	Bavarian Mine	12.8	1.1	BDL	1.4	6180.1	18.9	4.5
6	Midway Mine	92.0	0.9	12.7	2.1	1751.7	BDL	1.6
7	Moonbeam Mine	22.2	1.2	BDL	0.6	700.0	BDL	40.9
8	Eureka Tailings	43.4	3651.7	8.6	3806.0	53911.0	17.2	9864.6
9	Minnie Gulch Tailings	51.6	5149.1	6.2	4572.8	167465.6	8.5	761.9
10	Caledonia Mine	258.1	1.4	28.8	10.0	13057.0	9.8	5.7
11	Kitti Mack Mine	3108.8	1.3	17.8	2.9	2722.9	BDL	1.0
12	Auburn Tunnel	55.0	2.0	BDL	0.6	171.3	BDL	1.1
13	Kitti Mack Tailings	559.3	1.5	5.9	1.2	339.6	7.0	1.7
14	DM-37 Mainstem	68.0	1439.5	BDL	488.5	76.8	BDL	1299.4
15	Hamlet Mine	26.3	1.4	BDL	1.9	771.8	10.8	5.4
16	SF Eureka west DM	BDL	917.0	BDL	564.5	1983.6	BDL	242.1
17	SF Eureka east DM	63.4	773.5	BDL	751.3	123.2	BDL	156.7
18	Progressive Mine	10.2	2.0	19.7	3.2	1611.8	BDL	1.1
20	Mill Tailings below Cunningham	271.6	1.1	BDL	0.9	5607.5	BDL	53.6
21	Hidden Treasure Mine	1853.8	0.3	17.5	4.8	576.6	BDL	1.5
22	Old 100 Tailings	60.7	1311.3	17.8	1587.1	1266.4	BDL	1324.6
23	Gary Owen Mine	12.5	2.0	21.4	1.7	2379.0	BDL	1.2
24	Antiperiodic Mine	BDL	3.0	BDL	1.5	530.7	BDL	1.2
25	Iron Mask Mine	80.0	1.4	BDL	1.8	244.8	10.0	6.1
26	Buffalo Boy Tailings	5038.6	0.8	39.8	9.4	28415.0	BDL	1.3
27	Osceola Mine	30.2	0.5	BDL	0.9	51.6	BDL	1.0
28	Dump below Buffalo Boy	31.3	5.4	6.5	3.0	466.4	BDL	1.4
29	Buffalo Boy Mine	253.0	0.8	BDL	1.6	510.5	BDL	2.8
33	Green Mountain Mine	13.0	1.7	BDL	1.2	1650.7	BDL	1.5
34	Spotted Pup Mine	230.3	1.5	BDL	1.5	382.4	5.4	4.3
35	Highland Mary Tailings	4333.9	7.6	5.0	2.6	478.7	8.9	7.3
36	Innis Tunnel	79.5	1.0	BDL	0.4	82.0	18.2	0.8
37	Bradley Tunnel	191.6	3.3	BDL	2.1	212.0	BDL	2.6
38	Highland Mary #7 Level	32.0	3.3	5.6	1.8	655.5	BDL	1.7
39	Mill Tailings above Arrastra	41.4	2399.4	4.9	1727.9	57287.7	BDL	508.6
40	Arrastra Mill Tailings	BDL	1878.1	4.4	3033.6	36398.8	BDL	246.8
41	King Solomon Mine	75.9	2572.7	10.0	3195.4	584.9	23.7	9937.9
42	Black Prince Mine	58.5	1462.0	BDL	1903.3	95.2	BDL	1425.8
43	Gold Lake Tailings	134.4	1294.8	BDL	1546.2	2382.3	BDL	7230.4
45	Unity Tunnel	372.6	804.8	BDL	325.7	191.2	BDL	945.9
47	Silver Lake Tailings	54.6	545.0	BDL	642.9	378.6	BDL	650.8
49	Iowa Mine	5.3	1331.1	6.1	1958.3	1215.6	BDL	863.7
50	Royal Tiger Mine	11.6	1353.6	BDL	790.7	340.5	BDL	716.5
52	Aspen Mine	110.7	1622.6	BDL	1056.4	1829.6	BDL	1278.2
53	Tailings below Mayflower	17.7	BDL	3.9	15345.2	50882.5	BDL	285.1
55	Last Chance Mine	42.4	591.7	BDL	496.2	36.1	BDL	1117.2
56	Little Casino Mine	289.7	6208.4	6.8	5585.4	4063.2	5.6	1450.5
57	Woodchuck Basin	58.2	964.7	BDL	1213.0	38.6	BDL	1009.5
58	Idaho Mine	118.4	1509.6	BDL	4489.0	2520.3	BDL	1040.1
61	Vegetated Soil Blair-Swansea	323.2	1438.9	BDL	2006.5	68.8	BDL	1586.7
62	Alpine Soil	43.0	1400.1	BDL	1410.5	43.7	BDL	4524.2
63	Maggie Gulch Scree	64.8	566.4	BDL	496.9	22.9	BDL	1871.0
64	Eureka Mixed tails & stream gravels	217.8	769.4	BDL	949.4	512.9	BDL	27404.1
65	Animas Sediments below Cement	229.2	572.9	6.6	1573.6	42.7	BDL	1794.8
66	Blair Gulch Tailings	BDL	1999.1	56.6	13599.3	97055.7	BDL	371.5

Animas River Below Eureka
Mine Waste Data

Sample #	Description	Ni	P	Pb	S	Sb	Se	Si
		ppb	ppb	ppb	ppm	ppb	ppb	ppb
1	Sunnyside Mine	13.4	17735.9	2182.0	84.7	BDL	BDL	1846.7
2	Clipper Mine	57.8	11504.2	2798.5	277.7	BDL	BDL	1272.9
3	Ben Franklin Prospect	BDL	BDL	10676.1	3.6	BDL	BDL	508.2
4	Ben Franklin Mine	145.4	11012.3	1804.4	375.3	BDL	BDL	6699.1
5	Bavarian Mine	BDL	9442.7	567.5	15.1	BDL	BDL	2445.0
6	Midway Mine	BDL	8289.2	BDL	21.8	BDL	BDL	2105.8
7	Moonbeam Mine	BDL	6495.8	30.7	7.6	BDL	BDL	2056.6
8	Eureka Tailings	8.7	16353.4	525.0	106595.0	BDL	BDL	2741.4
9	Minnie Gulch Tailings	5.6	861.0	1052.1	178041.5	BDL	37.9	2125.7
10	Caledonia Mine	23.9	29406.1	1577.9	237.9	BDL	BDL	2474.7
11	Kitti Mack Mine	6.2	15798.5	464.1	75.4	BDL	BDL	1312.2
12	Auburn Tunnel	BDL	9089.3	BDL	6.5	BDL	BDL	1633.6
13	Kitti Mack Tailings	BDL	16724.1	3443.6	11.2	BDL	BDL	1687.2
14	DM-37 Mainstem	BDL	BDL	BDL	1825.4	BDL	BDL	1560.9
15	Hamlet Mine	6.6	18064.8	70.0	30.8	BDL	BDL	2987.3
16	SF Eureka west DM	5.0	#VALUE!	26.5	5258.2	BDL	BDL	2346.7
17	SF Eureka east DM	BDL	BDL	BDL	4814.4	BDL	BDL	BDL
18	Progressive Mine	BDL	14965.8	257.3	45.6	BDL	BDL	1826.3
20	Mill Tailings below Cunningham	BDL	17221.3	221.9	16.9	BDL	BDL	1702.4
21	Hidden Treasure Mine	BDL	16203.8	BDL	63.9	BDL	BDL	2538.2
22	Old 100 Tailings	BDL	BDL	99.8	10572.1	BDL	BDL	1623.7
23	Gary Owen Mine	BDL	297.3	1030.7	18.3	BDL	BDL	1408.3
24	Antiperiodic Mine	BDL	11302.2	4324.6	19.7	BDL	BDL	1067.3
25	Iron Mask Mine	6.1	12742.8	21.8	28.2	BDL	BDL	861.5
26	Buffalo Boy Tailings	18.5	1845.7	4140.8	106.2	BDL	BDL	2728.9
27	Osceola Mine	BDL	240.8	33.7	12.6	BDL	BDL	388.2
28	Dump below Buffalo Boy	BDL	988.5	23.1	76.2	BDL	BDL	2274.1
29	Buffalo Boy Mine	BDL	6574.5	BDL	33.2	BDL	BDL	1149.7
33	Green Mountain Mine	BDL	1037.6	3800.9	28.3	BDL	BDL	1105.0
34	Spotted Pup Mine	BDL	8124.4	81.2	24.2	BDL	BDL	1280.2
35	Highland Mary Tailings	BDL	21502.2	220.5	37.9	BDL	BDL	22758.6
36	Innis Tunnel	BDL	7749.2	249.3	6.2	BDL	BDL	854.5
37	Bradley Tunnel	BDL	1251.7	208.9	11.3	BDL	BDL	1157.1
38	Highland Mary #7 Level	BDL	23548.5	351.4	101.4	41.9	BDL	876.2
39	Mill Tailings above Arrastra	8.2	622.7	950.2	51657.2	BDL	BDL	1884.2
40	Arrastra Mill Tailings	14.9	602.5	2453.7	52763.5	BDL	BDL	183.6
41	King Solomon Mine	12.3	11695.7	49.1	49509.0	BDL	BDL	1397.7
42	Black Prince Mine	BDL	11703.8	BDL	32063.5	BDL	BDL	1054.7
43	Gold Lake Tailings	BDL	6358.6	1094.8	22689.0	68.8	BDL	1125.7
45	Unity Tunnel	BDL	366.7	162.3	341.6	BDL	BDL	2067.9
47	Silver Lake Tailings	BDL	228.8	109.8	3919.9	BDL	BDL	407.7
49	Iowa Mine	BDL	413.1	1024.2	26440.3	BDL	BDL	1598.1
50	Royal Tiger Mine	BDL	BDL	7611.6	4983.3	BDL	BDL	958.5
52	Aspen Mine	BDL	898.3	3000.8	13969.6	BDL	BDL	3949.2
53	Tailings below Mayflower	BDL	2025.7	BDL	259189.8	BDL	BDL	2536.9
55	Last Chance Mine	BDL	1248.8	BDL	1292.9	BDL	BDL	3446.2
56	Little Casino Mine	11.1	6353.3	802.8	170395.4	BDL	BDL	2548.0
57	Woodchuck Basin	BDL	774.5	70.7	642.7	BDL	BDL	512.3
58	Idaho Mine	BDL	1652.8	45.7	32620.6	BDL	BDL	3466.2
61	Vegetated Soil Blair-Swansea	BDL	1048.5	22.6	5468.8	BDL	BDL	1181.4
62	Alpine Soil	BDL	3356.9	BDL	3359.4	BDL	BDL	843.6
63	Maggie Gulch Scree	BDL	BDL	BDL	1160.0	BDL	BDL	1269.0
64	Eureka Mixed tails & stream gravels	BDL	1871.4	52.9	3484.7	BDL	BDL	1150.6
65	Animas Sediments below Cement	BDL	2404.5	BDL	12923.2	BDL	BDL	1544.9
66	Blair Gulch Tailings	52.4	1532.3	842.8	193425.2	BDL	38.0	1629.8

Animas River Below Eureka
Mine Waste Data

Sample #	Description	Sn	Ti	V	Zn		
		ppb	ppb	ppb	ppb		
1	Sunnyside Mine	BDL	BDL	BDL	39095.1		
2	Clipper Mine	BDL	BDL	BDL	113984.1		
3	Ben Franklin Prospect	BDL	BDL	BDL	431.9		
4	Ben Franklin Mine	157.7	24.1	BDL	37768.3		
5	Bavarian Mine	BDL	BDL	BDL	1122.5		
6	Midway Mine	BDL	BDL	BDL	419.4		
7	Moonbeam Mine	BDL	BDL	BDL	720.7		
8	Eureka Tailings	BDL	BDL	BDL	39203.0		
9	Minnie Gulch Tailings	BDL	BDL	BDL	77377.7		
10	Caledonia Mine	BDL	BDL	BDL	66387.6		
11	Kitti Mack Mine	BDL	BDL	BDL	9811.0		
12	Auburn Tunnel	BDL	BDL	BDL	292.0		
13	Kitti Mack Tailings	BDL	2.9	BDL	2370.2		
14	DM-37 Mainstem	BDL	BDL	BDL	28.8		
15	Hamlet Mine	BDL	BDL	BDL	7409.4		
16	SF Eureka west DM	BDL	BDL	BDL	290.6		
17	SF Eureka east DM	BDL	BDL	BDL	997.1		
18	Progressive Mine	BDL	BDL	BDL	1535.5		
20	Mill Tailings below Cunningham	BDL	BDL	BDL	7702.1		
21	Hidden Treasure Mine	BDL	BDL	BDL	589.3		
22	Old 100 Tailings	BDL	BDL	BDL	4019.0		
23	Gary Owen Mine	BDL	BDL	BDL	7933.9		
24	Antiperiodic Mine	BDL	BDL	BDL	699.9		
25	Iron Mask Mine	BDL	BDL	BDL	18.6		
26	Buffalo Boy Tailings	BDL	BDL	BDL	54873.6		
27	Osceola Mine	BDL	BDL	BDL	192.9		
28	Dump below Buffalo Boy	BDL	BDL	BDL	41.9		
29	Buffalo Boy Mine	BDL	BDL	BDL	81.1		
33	Green Mountain Mine	BDL	BDL	BDL	19369.3		
34	Spotted Pup Mine	BDL	BDL	BDL	905.3		
35	Highland Mary Tailings	BDL	60.9	10.9	277.6		
36	Innis Tunnel	BDL	BDL	BDL	114.4		
37	Bradley Tunnel	BDL	BDL	BDL	154.5		
38	Highland Mary #7 Level	BDL	BDL	BDL	651.3		
39	Mill Tailings above Arrastra	BDL	BDL	BDL	22153.3		
40	Arrastra Mill Tailings	BDL	BDL	BDL	35815.6		
41	King Solomon Mine	BDL	BDL	BDL	241.4		
42	Black Prince Mine	BDL	BDL	BDL	46.0		
43	Gold Lake Tailings	BDL	BDL	BDL	1650.9		
45	Unity Tunnel	BDL	BDL	BDL	134.9		
47	Silver Lake Tailings	BDL	BDL	BDL	1729.4		
49	Iowa Mine	BDL	BDL	BDL	4982.2		
50	Royal Tiger Mine	BDL	BDL	BDL	1334.7		
52	Aspen Mine	BDL	BDL	BDL	16289.6		
53	Tailings below Mayflower	BDL	BDL	BDL	15814.0		
55	Last Chance Mine	BDL	BDL	BDL	90.5		
56	Little Casino Mine	BDL	BDL	BDL	9797.8		
57	Woodchuck Basin	BDL	BDL	BDL	668.0		
58	Idaho Mine	BDL	BDL	BDL	2014.4		
61	Vegetated Soil Blair-Swansea	BDL	BDL	BDL	28.3		
62	Alpine Soil	BDL	BDL	BDL	15.4		
63	Maggie Gulch Scree	BDL	BDL	BDL	8.5		
64	Eureka Mixed tails & stream gravels	BDL	BDL	BDL	578.3		
65	Animas Sediments below Cement	BDL	BDL	BDL	91.5		
66	Blair Gulch Tailings	BDL	BDL	BDL	38680.6		

June 07 (Eureka Gulch)

Camile Price → Sampled Eureka Gulch

Preliminary Assessment / Pat Smith

Cement Creek Watershed

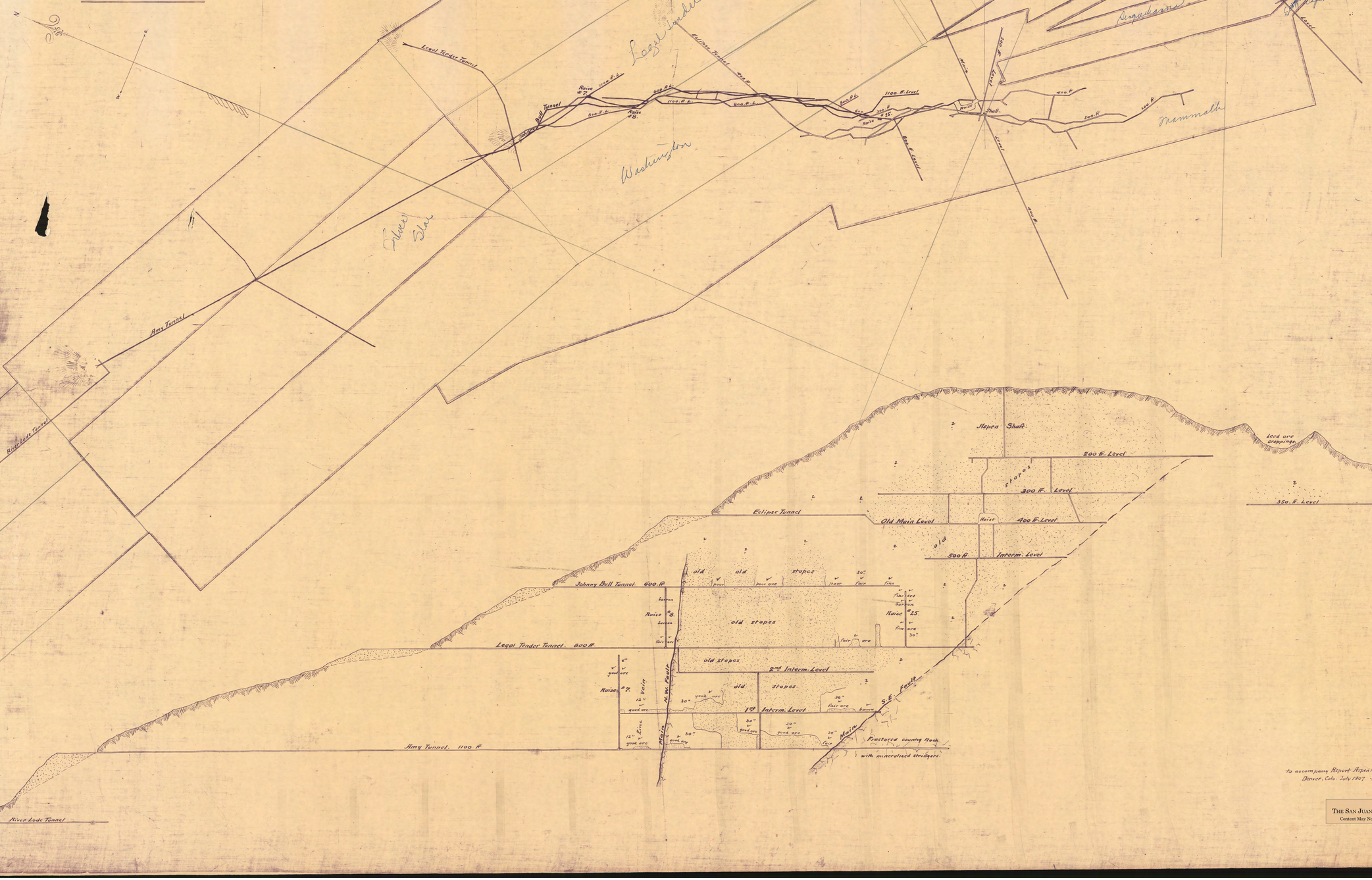
SAFC 1996 Oct 31 1996

CO0001411347

Closed Sunnide - Bulkhead/American Tunnel
sealed

PLAN & SECTION
ASPEN GROUP OF MINES
SILVERTON,
COLO.

Scale: 1 inch = 100 Feet.



To accompany Report Aspen Mine
Denver, Colo. July 1907

PROPERTY OF
THE SAN JUAN COUNTY HISTORICAL SOCIETY
Content May Not Be Used For Commercial Purposes

DRAWER 3934
FOLDER 119
MM-0016

State of Colorado
County of San Juan } ss
Filed for record the 22nd day of Mar, A. D. 1992 at 1:05 o'clock P. M.
Reception No. 135370 Book 237 Page 602-665

Dorothy J. Zanaria, Recorder

INDEXED

Bk. 237
Pg 602

Quit Claim Deed

This quit claim deed from Alta Gold Company ("Grantor"), a Nevada corporation, to Sunnyside Gold Corporation ("Grantee"), a Delaware corporation.

For valuable consideration, the receipt and adequacy of which are acknowledged, Grantor conveys and quit claims to Grantee all its right, title and interest in and to the real property (with all appurtenant rights) in San Juan County, Colorado described in attached Exhibit A, and in and to all improvements, fixtures and personal property located thereon, or held for operations thereon.

This conveyance is made without representation or warranty of title, condition, or status of the property, either expressed or implied.

Executed effective December 31, 1991.

ATTEST:

Secretary

ALTA GOLD COMPANY

BY: Robert M. Pratt
President

STATE OF COLORADO)
) SS:
CITY AND COUNTY OF DENVER)

Notary Public
SANDRA PEARSON
2315 Foothill Drive
Salt Lake City, Utah 84109
My Commission Expires
December 6,1995
State of Utah

On this 26th day of January, 1992, before me, personally appeared Robert M. Pratt, who acknowledged himself to be the President of Alta Gold Company, a Nevada corporation, and that he, as such President being authorized to do so, executed the foregoing instrument for the purpose therein contained, by signing the name of the corporation as President.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Sandra Pearson
Notary Public

My commission expires

12-6-95

Bk. 237
pg. 602A

EXHIBIT A

TO

QUIT CLAIM DEED

FROM

ALTA GOLD CO.

TO

SUNNYSIDE GOLD CORPORATION

The quit claim deed of which this is Exhibit A is intended to convey to Sunnyside Gold Corporation all the interests of Alta Gold Co. in what is commonly known as the Sunnyside Mine complex in San Juan County, Colorado. The following parts of this Exhibit A are derived from different sources of descriptions of the properties of that complex, and it is recognized that they constitute major repetitions. But because of unresolved inconsistencies among them, all are utilized to provide maximum inclusiveness.

PART I

Restated Mining Lease dated as of October 22, 1988, (referred to as the Marcy Lease), between Washington Mining Company, a Maine corporation, San Juan County Mining Venture, a joint venture among Washington Mining Company and Alta Bay Venture, a joint venture among Pacific Silver Corporation, a Hawaii corporation, Silver King Mines, Inc., a Nevada corporation, Alta Gold Co., a Nevada corporation, White Pine Gold Corporation, a Delaware corporation, and Sunnyside Gold Corporation, a Delaware corporation, covering the following:

88.237
89.604

I. Property included in the original February 28, 1959 Marcy Lease:

A. PATENTED CLAIMS

Claim Name	Property Description	Mineral Survey No.
Alma	24-42N-7W-NMPM	1708
Anaconda	14-42N-7W-NMPM	18020
Bavarian Lode	23-42N-7W-NMPM	1396
Beaubrec	24-42N-7W-NMPM	1709
Ben Butler	31-43N-6W-NMPM	1291
Blucher	24-42N-7W-NMPM	1400
Briggs	23-42N-7W-NMPM	8400
Butte City	14-42N-7W-NMPM	18020
Centennial	20-42N-6W-NMPM	16635
Charlton	24-42N-7W-NMPM	1706
Climax	14-42N-7W-NMPM	12723
Clipper	14-42N-7W-NMPM	1689
Crown Jewel	14-42N-7W-NMPM	20003
Currency	24-42N-7W-NMPM	1244A
Dakota and San Juan Placer	6-42N-6W-NMPM	112
Denver Lode	24-42N-7W-NMPM	1403
Detroit	15-42N-7W-NMPM	16831
Doctor	13/14-42N-7W-NMPM	2093A
Doctor Millsite	13/14-42N-7W-NMPM	2093B
Eighty Nine	24-42N-7W-NMPM	16997
Esmaralda	14-42N-7W-NMPM	16165
Estey	24-42N-7W-NMPM	13189
Eureka Lode Millsite	20-42N-6W-NMPM	420
Eureka Power Millsite	19-42N-6W-NMPM	16977B
First National	24-42N-7W-NMPM	1245A
Forks of Eureka Millsite	24/25-42N-7W-NMPM	16724B
George Washington	14/15-42N-7W-NMPM	2028
Gold Prince	14-42N-7W-NMPM	20003
Grand	24-42N-7W-NMPM	2573
Grand Prize	24-42N-7W-NMPM	1701
Grand View	( )-42N-7W-NMPM	17202
Great Eastern	23-42N-7W-NMPM	1691
Herman Lode	24-42N-7W-NMPM	1397

Bk. 237
Pg. 605

Claim Name	Property Description	Mineral Survey No.
Hidden Treasure	13-42N-7W-NMPM	5010
Hidden Treasure Extension	14-42N-7W-NMPM	20003
Independent	24-42N-7W-NMPM	17403
Lake	14-42N-7W-NMPM	2027
Last Chance	( )-42N-7W-NMPM	17901
Little Mary	14-42N-7W-NMPM	2038
Lizzie Norris	24-42N-7W-NMPM	1702
Lulu Carroll	15-42N-7W-NMPM	837
Lyman Strong	12-42N-7W-NMPM	2678
Mastodon Lode	13/14-42N-7W-NMPM	216
Metropolis	23/24-42N-7W-NMPM	1398
Mother Goose	( )-42N-7W-NMPM	17234
Moultrie Lode	14-42N-7W-NMPM	173
Mountain Sheep	14-42N-7W-NMPM	17432
Muskegon Lode	24-42N-7W-NMPM	1394
Napoleon	24-42N-7W-NMPM	17431
Nasby	19-42N-6W-NMPM	2508
New York	24-42N-7W-NMPM	8399
No Name	14-42N-7W-NMPM	2272
Oregon	( )-42N-7W-NMPM	17233
Palos	14-42N-7W-NMPM	18732
Palos No. 1	14-42N-7W-NMPM	18732
Palos No. 2	14-42N-7W-NMPM	18732
Pride of the Rockies	14-42N-7W-NMPM	7628
Protection	14-42N-7W-NMPM	20003
Pearl	14-42N-7W-NMPM	5975
Quail	14-42N-7W-NMPM	20003
Rarus Lode	24-42N-7W-NMPM	1401
Raymond	14-42N-7W-NMPM	18020
Republic	14-42N-7W-NMPM	12724
Rochus	24/25-42N-7W-NMPM	16724A
Roving Ranger Lode	29-42N-6W-NMPM	151A
Roving Ranger Millsite	29-42N-6W-NMPM	151B
Ruby	14-42N-7W-NMPM	18020
Senator	20-42N-6W-NMPM	16804
Shoshone	14/23-42N-7W-NMPM	17201
Silver Bow	14-42N-7W-NMPM	18020
Somerset	19-42N-6W-NMPM	16977A
Sunnyside Lode	14-42N-7W-NMPM	438
Sunnyside Annex	14-42N-7W-NMPM	16668
Sunnyside #2	14-42N-7W-NMPM	20003

Bk. 337
Pg. 606

Claim Name	Property Description	Mineral Survey No.
Sunnyside Extension	14-42N-7W-NMPM	1180
Tagner	20-42N-6W-NMPM	16804
Terry	14-42N-7W-NMPM	17986
Thunderberg Lode	24-42N-7W-NMPM	1395
Timber	24/25-42N-7W-NMPM	16724A
Viper	8-42N-7W-NMPM	1858
Wedge	14-42N-7W-NMPM	18160
Wellington	24-42N-7W-NMPM	16997
White Star	19-42N-6W-NMPM	14368
Cashier Lode (Und 9/10)	19-42N-6W-NMPM	134
Nantucket (Und 5/12)	13-42N-7W-NMPM	6954
Pony (Und 1/3)	10-42N-7W-NMPM	2336
Taggert (Und 1/3)	11-42N-7W-NMPM	2338

Bk 237
pg. 607

B. UNPATENTED CLAIMS

Claim Name	Property Description	SMC Coordinates N E	BLM No.
Boston Amended	NE-14-42N-7W-NMPM		71062
Buck	NW-14-42N-7W-NMPM		71063
Doe	NE-15-42N-7W-NMPM		71064
Goat	NE-15-42N-7W-NMPM		71065
Harold Amended	SE-14-42N-7W-NMPM		71066
Kid	NE-15-42N-7W-NMPM		71067
Knob	SW-10-42N-7W-NMPM		71068
Midway No. 7	NE-14-42N-7W-NMPM		71071
Midway No. 8	NE-14-42N-7W-NMPM		71072
Midway No. 9	NE-14-42N-7W-NMPM		71073
Midway No. 10	NE-14-42N-7W-NMPM		71074
Midway No. 31	SE-15-42N-7W-NMPM		71075
Mastadon Millsite	NE-14-42N-7W-NMPM		71076
Northern Pacific Amended	NW-14-42N-7W-NMPM		71077
Pronto Amended	SE-10-42N-7W-NMPM		71078
Protected Amended	SE-14-42N-7W-NMPM		71079
Standard	SE-10-42N-7W-NMPM		71080
St. Joe Amended	NW-14-42N-7W-NMPM		71081

Bk 237
pg. 608

II. Property Added to Marcy Lease by September 29, 1961 Sublease From United States Smelting Refining and Mining Company to Standard Metals Corporation:

Claim Name	Property Description	Mineral Survey No.
Black Cat Lode (Less Placer Ground)	21-42N-7W-NMPM	17975
Big America Lode	21-42N-7W-NMPM	17472
Calumete Lode	10-42N-7W-NMPM	1203
Crosscut Lode	15-42N-7W-NMPM	16523
Caucacus Lode	15-42N-7W-NMPM	468
E Pluribus Lode	10-42N-7W-NMPM	520
Grand Mogul Lode	10-42N-7W-NMPM	521
M.E. Harrison (W 570 ft)	15-42N-7W-NMPM	469
Narrow Gauge Lode	15-42N-7W-NMPM	16523
Ross Lode	16-42N-7W-NMPM	491
Rob the Ranter Lode	16-42N-7W-NMPM	778
Side Dish Lode	16-42N-7W-NMPM	5475
Theresa Lode	15/16-42N-7W-NMPM	15968A
N.G. Lode	15-42N-7W-NMPM	466
Winchester Lode	15-42N-7W-NMPM	467
Young Lode	15-42N-7W-NMPM	16523
Holy Cross Lode	21-42N-7W-NMPM	17975
Theresa Millsite	15/16-42N-7W-NMPM	15968B

Bk 237
Pg 609

III. Property added to Marcy Lease by Agreement Modifying Lease dated June 10, 1969:

Moultrie #2 - the Location Certificate of which is recorded in Book 189, Page 421 of the records of San Juan County, Colorado; and

Moultrie #3 - the Location Certificate of which is recorded in Book 189, Page 422 of the records of San Juan County, Colorado.

Bk 237
pg. 610

IV. Property added to Marcy Lease by Mining Deed dated April 21, 1977:

PATENTED CLAIMS

Claim Name	Property Description	Mineral Survey No.
Alexander	22,27-42N-7W-NMPM	15504
Ama	22,27-42N-7W-NMPM	18849
Blue Heel	22,27-42N-7W-NMPM	18849
Camp Bird	21,27,28-42N-7W-NMPM	15061
Casnier	10-42N-7W-NMPM	442
Croesus	27-42N-7W-NMPM	19150
Dorothy	21,27,28-42N-7W-NMPM	15061
Easy Street	27-42N-7W-NMPM	19150
Emma	10-42N-7W-NMPM	2273
Emma No.1	15-42N-7W-NMPM	17538
Emma No.2	15-42N-7W-NMPM	17538
Family	36-43N-7W-NMPM	4801
Fearless	11,12-42N-7W-NMPM	17011
Fiction	27-42N-7W-NMPM	19150
Gold Peak	15-22-42N-7W-NMPM	16393
Hoffman	16-42N-7W-NMPM	5782
Iron Chancellor	27-42N-7W-NMPM	13247
Joe	22,27-42N-7W-NMPM	18849
Jupiter (Und. 2/5)	12-42N-7W-NMPM	17034
Klondyke	21,27,28-42N-7W-NMPM	15061
Klondyke No. 3	21,27,28-42N-7W-NMPM	15061
Leonori (Und. 2/5)	12-42N-7W-NMPM	18230
Midnight	11-42N-7W-NMPM	5616
Milano	15-22-42N-7W-NMPM	16393
Minnie	12-42N-7W-NMPM	17034
Morning Star (Und. 2/5)	12-42N-7W-NMPM	17034
Napoleon	22-27-42N-7W-NMPM	15504
Occidental No. 3	22-27-42N-7W-NMPM	15504
Oriental	10-42N-7W-NMPM	566
Paymaster	10-42N-7W-NMPM	1301
Paymaster	15-42N-7W-NMPM	18080
Pony (Und. 1/3)	10-42N-7W-NMPM	2336
Pride of the Alps	9-10-42N-7W-NMPM	572
Red	22,27-42N-7W-NMPM	18849
Rock	22,27-42N-7W-NMPM	18849
Rosa	22,27-42N-7W-NMPM	18849
Rosso	22,27-42N-7W-NMPM	18849
Rouena O.	15-22-42N-7W-NMPM	16393
Smuggler	16-42N-7W-NMPM	1758

Bk 231
Pg. 611

Stars and Stripes (Und. 2/5)	12-42N-7W-NMPM	18233
Stella	21,27,28-42N-7W-NMPM	15061
Stranger	27-42N-7W-NMPM	19150
Sumner	21,27,28-42N-7W-NMPM	15061
Sun Beam	19-42N-7W-NMPM	1419
Treasure	22,27-42N-7W-NMPM	18849
Venus (Und. 2/5)	12-42N-7W-NMPM	17034
Wadleigh (Und. 2/5)	12-42N-7W-NMPM	17034
Waterloo	15-42N-7W-NMPM	17429
Yankee Boy	22,27-42N-7W-NMPM	18849
AD Searl	23-42N-7W-NMPM	1714
Glenn	26-42N-7W-NMPM	1715
Hilderbrand	23-42N-7W-NMPM	1707
Knickerbocker	24-42N-7W-NMPM	1717
Underwood	24-42N-7W-NMPM	1719
Wilhite	26-42N-7W-NMPM	1720
Daneberg	23-42N-7W-NMPM	1780
Dover	23-42N-7W-NMPM	1690

Bk. 2
Pg. 612

V. Property Subject to February 20, 1985, Agreement Modifying Lease:

UNPATENTED CLAIMS

Claim Name	Property Description	SMC Coordinates N	E	BLM No.
Algorta Lode	SW-10-42N-7W-NMPM	19	16	69958
American Tunnel No. 1	N/2-21-42N-7W-NMPM	12	11	6347
Barbarian Lode	SW-14, SE-15, NE-22, NW-23-42N-7W-NMPM	14	21	6337
Big John	NE-22-42N-7W-NMPM			160687
Bonita Lode	SE-15, NE-22-42N-7W-NMPM	14	18	6341
Bonita Ridge Lode	NE-15-42N-7W-NMPM	16	19	69949
Boundary Lode	SW-14, NW-23-42N-7W-NMPM	14	22	6336
Bridge Millsite	SE-17-42N-7W-NMPM			167890
Centennial Lode	SE-7-42N-7W-NMPM	19	15	69957
Delta Lode	SW-14, SE-15, NE-22, NW-23-42N-7W-NMPM	14	21	6338
Gladstone Millsite	NW-21-42N-7W-NMPM	12	11	82529
Oklahoma King	SE-15-42N-7W-NMPM			160145
Bob No. 1	SW-19-42N-6W-NMPM			199719
Bob No. 2	SW-19-42N-6W-NMPM			199720
Bob No. 3	SE-19-42N-6W-NMPM			199721
Bob No. 4	SE-19-42N-6W-NMPM			199722
Bob No. 5	SW-19-42N-6W-NMPM			199723
Bob No. 6	SE-24-42N-7W-NMPM			199724
Bob No. 7	SE-24-42N-7W-NMPM			199725
Bob No. 8	NE-24-42N-7W-NMPM			199726
Bob No. 9	NW-19-42N-6W-NMPM			199727
Bob No. 10	NW-19-42N-6W-NMPM			199728
Bob No. 13	NE-24-42N-7W-NMPM			199729
Bob No. 14	NW-19-42N-6W-NMPM			199730
Bob No. 16	NE-24-42N-7W-NMPM			200829
Bob No. 19	SE-13-42N-7W-NMPM			200830
Bob No. 22	SE-13-42N-7W-NMPM			200832
McCarty No. 39	NW-13-42N-7W-NMPM			200836
McCarty No. 44	NE-14-42N-7W-NMPM			200837
McCarty No. 45	NW-14-42N-7W-NMPM			200838
McCarty No. 47	SW-13-42N-7W-NMPM			200839
McCarty No. 48	SW-13-42N-7W-NMPM			200840
McCarty No. 51	SW-13-42N-7W-NMPM			200841
McCarty No. 55	NW-13-42N-7W-NMPM			200842
McCarty No. 56	NW-13-42N-7W-NMPM			200843
McCarty No. 57	NE-14-42N-7W-NMPM			200844
Bob No. 36	NW-24-42N-7W-NMPM			200182
Bob No. 37	NE-24-42N-7W-NMPM			200183
Bob No. 40	NE-24-42N-7W-NMPM			200184
McCarty No. 34	SW-24-42N-7W-NMPM			200185
McCarty No. 36	SE-14-42N-7W-NMPM			200186
McCarty No. 37	SW-13-42N-7W-NMPM			200187

Bk 237
Pg 643

UNPATENTED CLAIMS

Claim Name	Property Description	SMC Coordinates N	SMC Coordinates E	BLM No.
McCarty No. 38	SW-13-42N-7W-NMPM			200188
McCarty No. 49	NW-24-42N-7W-NMPM			200189
McCarty No. 50	NW-24-42N-7W-NMPM			200190
McCarty No. 52	NW-24-42N-7W-NMPM			200191
McCarty No. 53	NW-24-42N-7W-NMPM			200192
McCarty No. 54	NW-24-42N-7W-NMPM			200193
McCarty No. 21	NE-23-42N-7W-NMPM			200725
McCarty No. 22	NE-23-42N-7W-NMPM			200726
McCarty No. 23	SE-23-42N-7W-NMPM			200727
McCarty No. 24	SE-23-42N-7W-NMPM			200728
McCarty No. 25	SE-23-42N-7W-NMPM			200729
McCarty No. 26	SW-24-42N-7W-NMPM			200730
McCarty No. 27	SW-24-42N-7W-NMPM			200731
McCarty No. 28	SW-24-42N-7W-NMPM			200732
McCarty No. 29	NE-23-42N-7W-NMPM			200733
McCarty No. 30	NE-23-42N-7W-NMPM			200734
McCarty No. 31	NE-23-42N-7W-NMPM			200735
McCarty No. 32	NE-23-42N-7W-NMPM			200736
McCarty No. 33	SW-24-42N-7W-NMPM			200737
McCarty No. 35	SW-24-42N-7W-NMPM			200738
Bob No. 11	NW-19-42N-6W-NMPM			201342
Bob No. 12	NE-19-42N-6W-NMPM			201343
Bob No. 15	NW-19-42N-6W-NMPM			201344
Bob No. 17	NW-19-42N-6W-NMPM			201345
Bob No. 18	NW-19-42N-6W-NMPM			201346
Bob No. 25	SE-13-42N-6W-NMPM			201349
Bob No. 39	SW-18-42N-6W-NMPM			201359
Bob No. 41	NE-24-42N-7W-NMPM			201360
McCarty No. 40	SE-14-42N-7W-NMPM			201361
McCarty No. 41	NE-14-42N-7W-NMPM			201362
McCarty No. 42	SE-14-42N-7W-NMPM			201363
McCarty No. 43	NE-14-42N-7W-NMPM			201364
McCarty No. 46	NE-14-42N-7W-NMPM			201365
Diamond Jim	NE-22-42N-7W-NMPM			160688
Dubba Lode	NW-15-42N-7W-NMPM	18	16	6334
Easy Money Lode	SE-15-42N-7W-NMPM	16	19	6348
E Pluribus Ext Lode	SE-9-42N-7W-NMPM	19	14	69956
Fairchild Lode	SW-10-42N-7W-NMPM	19	17	69955
Gamma Lode	SW-14, SE-15, NW-23-42N-7W-NMPM	15	21	6340
Goat Annex Lode	SW-14, SE-15-42N-7W-NMPM	15	20	6344
Goat Extension Lode	SE-15-42N-7W-NMPM	15	18	6345
Hi Ho Silver Lode	SE-15, NE-22-42N-7W-NMPM	14	19	69951
Joker Lode	All-14-42N-7W-NMPM	17	22	6333
Keystone Lode	SW-10-42N-7W-NMPM	20	16	69954

Bk 237
Pg 614

UNPATENTED CLAIMS

Claim Name	Property Description	SMC Coordinates N	E	BLM No.
Lac Char Lode	N/2-23-42N-7W-NMPM	13	22	6335
McCarty Lode	N/2-23/42N-7W-NMPM	13	23	6331
Omega Lode	SW-10-42N-7W-NMPM	20	17	69953
Orcus Lode	NW-14-42N-7W-NMPM	18	21	6332
Silverton Ext Lode	SE-9-42N-7W-NMPM	18	15	69952
SM-1	SW-10-42N-7W-NMPM	19	16	69959
SM-4	SW-11-42N-7W-NMPM	19	21	69960
SM-5	SW-11-42N-7W-NMPM	19	22	69961
SM-6	SE-11-42N-7W-NMPM	19	23	69962
SM-7	SW-10-42N-7W-NMPM	18	16	69963
SM-11	SW-11-42N-7W-NMPM	18	22	69964
SM-12	SE-11-42N-7W-NMPM	18	23	69965
SM-13	SW-10-42N-7W-NMPM	18	16	69966
SM-14	SW-10-42N-7W-NMPM	18	18	69967
SM-15	SE-10-42N-7W-NMPM			70245
SM-17	SW-10-42N-7W-NMPM	18	22	69968
SM-19	NW-15-42N-17W-NMPM	17	16	69969
SM-20	NW-15-42N-7W-NMPM	17	18	69970
SM-25	NW-15-42N-7W-NMPM	17	16	69971
SM-26	NW-15-42N-7W-NMPM	17	16	69972
SM-28	NW-14-42N-7W-NMPM			70244
SM-31	NW-15-42N-7W-NMPM	16	16	69973
SM-48	NE-14-42N-7W-NMPM	15	24	69974
SM-54	SE-14-42N-7W-NMPM	14	24	69975
SM-57	SE-15-42N-7W-NMPM	13	19	69976
SM-58	SW-14-42N-7W-NMPM	13	21	69977
SM-60	SE-14-42N-7W-NMPM	13	24	69978
SM-63	SE-15-42N-7W-NMPM	13	19	69979
SM-64	SW-14-42N-7W-NMPM	13	21	69980
SM-65	SW-14-42N-7W-NMPM	13	22	69981
SM-69	SE-15-42N-7W-NMPM	12	19	69982
SM-70	SW-14-42N-7W-NMPM	12	21	69983
Boulder	SE-24-42N-7W-NMPM	9	30	61916
Connie	SW-19-42N-6W-NMPM	8	32	61913
Joli	NE-24-42N-7W-NMPM	9	31	61918
Midway	NE-24-42N-7W-NMPM	9	29	61915
Somerset Ext	SW-19-42N-6W-NMPM	9	32	61919
Walvoord	SW-19-42N-6W-NMPM	8	33	61917
Wolfgang	NE-24-42N-7W-NMPM	10	29	61914
McCarty No. 2	NW-23-42N-7W-NMPM	12	22	23975
McCarty No. 3	NW-23-42N-7W-NMPM	12	23	23976
McCarty No. 4	NE-23-42N-7W-NMPM	11	24	23977
McCarty No. 5	NW-23-42N-7W-NMPM	11	22	23978
McCarty No. 6	NE-23-42N-7W-NMPM	10	23	23979
McCarty No. 7	NW-23-42N-7W-NMPM	10	22	35577
Full House	SW-14-42N-7W-NMPM	12	22	23973
Full House Annex	NW-23-42N-7W-NMPM	11	21	35584
Lac Char Annex	SW-14-42N-7W-MPM	13	23	23974

BK.237
PG 615

VI. Property Added to the Marcy Lease by Agreement Modifying Lease dated March 12, 1985:

A. Belle Creole Lease:

PATENTED CLAIMS

Claim Name	Property Description	Mineral Survey No.
Belle Creole (Und 1/4)	14-42N-7W-NMPM	2021
Belle Creole (Und 1/4)	14-42N-7W-NMPM	2021
Belle Creole (Und 1/2)	14-42N-7W-NMPM	2021
Grand Duke (Und 1/4)	14-42N-7W-NMPM	2020
Grand Duke (Und 1/4)	14-42N-7W-NMPM	2020
Grand Duke (Und 1/2)	14-42N-7W-NMPM	2020
Oracle (Und 1/4)	7-42N-7W-NMPM	17812
Oracle (Und 1/4)	7-42N-7W-NMPM	17812
Oracle (Und 1/2)	7-42N-7W-NMPM	17812

B. Brenneman Lease:

Claim Name	Property Description	Mineral Survey No.
Black Heath	15-42N-7W-NMPM	465
Buck Run	10/11-42N-7W-NMPM	18836
Emma	14/15-42N-7W-NMPM	484
M.E. Harrison (East 959 ft)	15-42N-7W-NMPM	469
Kohinoor	10/11-42N-7W-NMPM	18836
Monarch	10/11-42N-7W-NMPM	18836
Mackey Boy Lode (added 2/24/86)		2623

Bk 237
Pg 616

VII. Property added to the Marcy Lease by Agreement Modifying Lease dated November 19, 1985:

UNPATENTED CLAIMS

Claim Name BLM No.	Property Description	
Noranda/Bennett Lease/Treasure Mountain Claims		
Silverado No. 9	NW-12-42N-7W-NMPM	1490
Silverado No. 10	NE-11-42N-7W-NMPM	1491
Noranda/Great Divide Lease/Treasure Mountain Claims		
Bear No. 12	All-31-42N-6W-NMPM	77877
Byron No. 1	NW-18-42N-6W-NMPM NE-13-42N-7W-NMPM	77868
Byron No. 2	NW-18-42N-6W-NMPM	77869
Byron No. 3	SW-7, NW-18-42N-6W-NMPM	77870
Copper Boy No. 1	SW-17, SE-18-42N-6W-NMPM	77872
Copper Boy No. 2	SW-17-42N-6W-NMPM	77873
Copper Boy No. 3	SW-17, SE-18-42N-6W-NMPM	77874
Empire	SE-30, NE-31-42N-6W-NMPM	77841
Empire No. 1	SE-30-42N-6W-NMPM	77842
Empire No. 2	SE-30, NE-31-42N-6W-NMPM	77843
Empire No. 3	SE-30, NE-31-42N-6W-NMPM	77844
Empire No. 4	SW-29, NE-31-42N-6W-NMPM	77845
Empire No. 5	NE-31, NW-32-42N-6W-NMPM	77846
Empire No. 6	NW-32-42N-6W-NMPM	77847
Empire No. 7	SW-29, N/2-32-42N-6W-NMPM	77848
Empire No. 8	NW-32-42N-6W-NMPM	77849
Francis No. 1	NW-17-42N-6W-NMPM	77880
Golden Fleece No. 1	N/2-13-42N-7W-NMPM	77862
Golden Fleece No. 2	N/2-13-42N-7W-NMPM	77863
Golden Fleece No. 3	SW-12-42N-7W-NMPM	77864
Golden Fleece No. 4	SW-12, NW-13-42N-7W-NMPM	77865
Tom Moore No. 1	SE-18-42N-6W-NMPM	77852
Tom Moore No. 2	S/2-18-42N-6W-NMPM	77853
Tom Moore No. 3	W/2, SE-18-42N-6W-NMPM	77854
Tom Moore No. 5	S/2-12-42N-7W-NMPM	77855
Tom Moore No. 6	NW-13-42N-7W-NMPM	77856
Nantucket No. 1	E/2-13-42N-7W-NMPM	77875
Nexia	NW-18-42N-6W-NMPM NE-13-42N-7W-NMPM	77867

Bk 237
Pg 617

UNPATENTED CLAIMS

Claim Name	Property Description	BLM No.
Mexia No. 2	NW-18-42N-6W-NMPM NE-13-42N-7W-NMPM	77858
Mexia No. 3	SW-7, NW-18-42N-6W-NMPM	77859
Mexia No. 4	SW-7-42N-6W-NMPM	77860
Mexia No. 6	SW-7, NW-8-42N-6W-NMPM SE-2, NE-13-42N-7W-NMPM	77861
S.G.M.	S/2-8, N/2-17-42N-6W-NMPM	77879
Slide	NW-17, NE-18-42N-6W-NMPM	77881
Treasure Mountain	NE-13-42N-7W-NMPM	77823
Treasure Mountain No. 1	NE-13-42N-7W-NMPM	77824
Treasure Mountain No. 2	NE-13-42N-7W-NMPM	77825
Treasure Mountain No. 3	SE-12, NE-13-42N-7W-NMPM	77826
Treasure Mountain No. 4	S/2-12, NE-13-42N-7W-NMPM	77827
Treasure Mountain No. 5	SW-7-42N-6W-NMPM SE-12-42N-7W-NMPM	77828
Treasure Mountain No. 8	SW-7-42N-6W-NMPM SE-12-42N-7W-NMPM	77831
Treasure Mountain No. 9	NW-13-42N-7W-NMPM NE-14-42N-7W-NMPM	77832
Treasure Mountain No. 10	SW-7-42N-6W-NMPM SE-12-42N-7W-NMPM	77833
Treasure Mountain No. 11	S/2-12-42N-7W-NMPM	77834
Treasure Mountain No. 12	SW-7-42N-6W-NMPM	77835
Treasure Mountain No. 13	SW-7-42N-6W-NMPM	77836
Treasure Mountain No. 14	S/2-7-42N-6W-NMPM	77837
Treasure Mountain No. 15	W/2-18-42N-6W-NMPM	77838
Treasure Mountain No. 16	N/2-18-42N-6W-NMPM	77839
Treasure Mountain No. 17	N/2, SW-18-42N-6W-NMPM	77840
Float Gold Placer Tract A	NE-1-41N-7W-NMPM SW-31-42N-6W-NMPM	77882

Bk 237
Pg. 618

UNPATENTED CLAIMS

Claim Name	Property Description	BLM No.
Float Gold Placer Tract B Float Gold Placer Tract C	SW-31-42N-6W-NMPM SE-36-42N-7W-NMPM	77883
Tempest Tunnel Site	N/2-2-42N-7W-NMPM SE-34, S/2-32-43N-7W-NMPM	77878
Noranda/Blackwood, et al./Treasure Mountain Claims		
Flower	N/2-7-42N-6W-NMPM	1494
Flower No. 1	N/2-7-42N-6W-NMPM	1495
Flower No. 2	NE-7-42N-6W-NMPM	1496
Grace S.	NW-7-42N-6W-NMPM	1501
Kinnear	NW-7-42N-6W-NMPM E/2-12-42N-7W-NMPM	1502
McNamee	S/2-6, N/2-7-42N-6W-NMPM	1500
W.Y.O.D.	NW-7-42N-6W-NMPM	1497
W.Y.O.D. No. 1	W/2-7-42N-6W-NMPM	1498
W.Y.O.D. No. 2	All-7-42N-6W-NMPM	1499
Noranda/Noranda Claims/Treasure Mountain Claims		
Cummingtonite	SE-7-42N-6W-NMPM	11730
Doggy Wog	SE-7-42N-6W-NMPM	11728
G. O. Fraction	NW-12-42N-7W-NMPM	79233
Snowdrift No. 1	S/2-12-42N-7W-NMPM	177989
Snowdrift No. 2	E/2-12-42N-7W-NMPM	177990
Snowdrift No. 3	W/2-7-42N-6W-NMPM E/2-12-42N-7W-NMPM	177991
Snowdrift No. 4	SE-12-42N-7W-NMPM	177992
Snowdrift No. 5	W/2-7-42N-6W-NMPM E/2-12-42N-7W-NMPM	177993
Snowdrift No. 6	W/2-7-42N-6W-NMPM	177994
Snowdrift No. 7	SW-7-42N-6W-NMPM SE-12-42N-7W-NMPM	177995
Snowdrift No. 8	S/2-7-42N-6W-NMPM	177996
Tube Stake	SE-7-42N-6W-NMPM	11729
Noranda/Bennett Lease/California Mountain Claims		
Miriam	SE-11-42N-7W-NMPM	1492
Silverado No. 1	NE, S/2-11-42N-7W-NMPM	1482
Silverado No. 2	E/2-11-42N-7W-NMPM	1483
Silverado No. 3	S/2-11-42N-7W-NMPM	1484

Bk 237
Pg 619

UNPATENTED CLAIMS

Claim Name	Property Description	BLM No.
Silverado No. 4	S/2-11-42N-7W-NMPM	1485
Silverado No. 5	S/2-11-42N-7W-NMPM	1486
Silverado No. 6	All-11-42N-7W-NMPM	1487
Silverado No. 7	NE-11-42N-7W-NMPM	1488
Silverado No. 8	E/2-11-42N-7W-NMPM	1489
Silver Queen Millsite	W/2-12-42N-7W-NMPM	1493
Noranda/Great Divide Lease/California Mountain Claims		
Byron No. 4	NW-13-42N-7W-NMPM	77871
Empire No. 9	NE-19-42N-6W-NMPM	77850
Empire No. 10	NE-19, NW-20-42N-6W-NMPM	77851
Golden Fleece No. 5	SW-13-42N-7W-NMPM	77866
Golden Fleece No. 6	W/2-13-42N-7W-NMPM	77867
Nantucket No. 2	NE, S/2-13-42N-7W-NMPM	77876
Treasure Mountain No. 6	All-13-42N-7W-NMPM	77829
Treasure Mountain No. 7	N/2-13-42N-7W-NMPM	77830
Noranda/Noranda Claims/California Mountain Claims		
Comstock Fraction	NE-11, NW-12-42N-7W-NMPM	79235
Florence Fraction	SE-11, NE-14-42N-7W-NMPM	79237
Independence Fraction	SE-11-42N-7W-NMPM	79234
Neptune Fraction	E/2-11-42N-7W-NMPM	79236
Pickup Fraction	SW-12-42N-7W-NMPM	79232

Bk 237
pg. 620

VIII. Property purchase by Sunnyside Gold Corp. and subsequently offered to Washington Mining Co. on April 15, 1978:

Claim Name	Property Description	Mineral Survey No.
Romantic	26-42N-7W	864
Silver Globe	26-42N-7W	1196
Silver Globe No. 2	26-42N-7W	1197
Tip Top	24-42N-7W	18108
Tip Top No. 2	24-42N-7W	19474
Tip Top No. 3	24-42N-7W	19474
Climax No. 3	24-42N-7W	19474

IX. Property purchased by Sunnyside Gold Corp. in late 1987 and subsequently offered to Washington Mining Co.

Claim Name	Property Description	Mineral Survey No.
Honeck Lode	14-42N-7W	16200

Bk 237
pg. 621

PART II

Bk 237
Pg 622

SUNNYSIDE (San Juan County, Colorado)

A. Leases and Agreements Held By Sunnyside:

I.	Instrument:	Lease
	Lessor:	United States Smelting Refining and Mining Company, predecessor-in-interest to Washington Mining Company, a Maine corporation
	Lessee:	Marcy-Shenandoah Corporation, predecessor-in-interest to Standard Metals Corporation, a Delaware corporation
	Dated:	February 28, 1959
	Recorded:	In memorandum form on May 8, 1959, in Book 185 at Page 225 of the records of San Juan County, Colorado
	Amended:	October 26, 1959 June 10, 1969 July 1, 1970 August 1, 1973 February 20, 1985, recorded March 4, 1985, in Book 230 at Page 72 of the records of San Juan County, Colorado March 12, 1985
II.	Instrument:	Lease and Option
	Lessor:	San Juan Gold King Mines, Inc.
	Lessee:	Marcy-Shenandoah Corporation, predecessor-in-interest to Standard Metals Corporation, a Delaware corporation
	Dated:	March 27, 1958
	Recorded:	Not of record in San Juan County, Colorado
III.	Instrument:	Escrow Agreement
	Grantor:	San Juan Gold King Mines, Inc.
	Grantee:	Marcy-Shenandoah Corporation, predecessor-in-interest to Standard Metals Corporation
	Dated:	August 20, 1958
	Recorded:	Not of record in San Juan County, Colorado
IV.	Instrument:	Easement Agreement
	Grantor:	San Juan Gold King Mines, Inc.
	Grantee:	Marcy-Shenandoah Corporation, predecessor-in-interest to Standard Metals Corporation
	Dated:	August 29, 1958
	Recorded:	November 9, 1960, in Book 185 at Page 414 of the records of San Juan County, Colorado

Bk 237
Pg 623

V.	Instrument:	Mining Lease
	Lessors:	Richard H. Brenneman; John L. Brenneman; Phillip R.P. Brenneman; Robert C. Brenneman, Jr.; Florence E. Brenneman, Executrix of the will of Robert C. Brenneman, deceased; The Miners National Bank of Pottsville, Pennsylvania, Trustee under the will of Louis P. Brenneman, deceased; Virginia B. Krecker; and Arthur C. Bashore and The Miners National Bank of Pittsville, Trustees under the will of Anna Brenneman, deceased
	Lessee:	Standard Metals Corporation, a Delaware corporation
	Dated:	October 17, 1963
	Recorded:	November 19, 1963, in Book 188 at Page 42 of the records of San Juan County, Colorado
VI.	Instrument:	Mining Lease
	Lessors:	Manlon D. Thatcher, Marion Coleman, Rea Westenhaver and Warren K. Gilbert
	Lessee:	Standard Metals Corporation, a Delaware corporation
	Dated:	October 15, 1960
	Recorded:	October 20, 1960, in Book 185 at Pages 391 and 401 of the records of San Juan County, Colorado
	Modified:	January 1, 1979, recorded February 1, 1980, in Book 218 at Page 315 of the records of San Juan County, Colorado
VII.	Instrument:	Exploration and Option Agreement-California Mountain Claims and Treasure Mountain Claims
	Grantors:	Callahan Mining Corporation, an Arizona corporation, and Noranda Exploration, Inc., a Delaware corporation
	Grantee:	Standard Metals Corporation, a Delaware corporation
	Dated:	November 9, 1983
	Recorded:	In memorandum form, on March 6, 1984, in Book 227 at Pages 423 and 443 of the records of San Juan County, Colorado
VIII.	Instrument:	Mining Lease
	Lessor:	Joy Manufacturing Co., a Pennsylvania corporation
	Lessee:	Standard Metals Corporation, a Delaware corporation
	Dated:	November 4, 1980
	Recorded:	November 11, 1980, in Book 218 at Page 736 of the records of San Juan County, Colorado

Bk. 237
pg. 624

IX.	Instrument:	Lease Agreement with Option to Purchase
	Lessor:	San Juan County Board of Commissioners
	Lessee:	Standard Metals Corporation, a Delaware corporation
	Dated:	April 13, 1981
	Recorded:	April 14, 1981, in Book 222 at Page 60 of the records of San Juan County, Colorado
X.	Instrument:	Lease
	Lessors:	Richard H. Brenneman; John L. Brenneman; Phillip R.P. Brenneman; Robert C. Brenneman, Jr.; Florence E. Brenneman, Executrix of the will of Robert C. Brenneman, deceased; The Miners National Bank of Pottsville, Pennsylvania, Trustee under the will of Louis P. Brenneman, deceased; Virginia B. Krecker; and Arthur C. Bashore and The Miners National Bank of Pottsville, Trustees under the will of Anna Brenneman, deceased
	Lessee:	Standard Metals Corporation, predecessor to the interest of Sunnyside Gold Corporation
	Dated:	February 14, 1986
	Recorded:	March 12, 1986, in Book 230 at Pages 949 through 968
	Property:	Mackey Boy claim, Mineral Survey No. 2623
XI.	Instrument:	Venture Agreement
	Parties:	Gerber Minerals Corporation, a Colorado corporation; Springs Consultants, Inc., a Colorado corporation; Gold King Investors 1985, Ltd., a Colorado limited partnership; Gold King Investors 1986, Ltd., a Colorado limited partnership; and Sunnyside Gold Corporation, a Delaware corporation
	Dated:	October 17, 1986
	Property:	A mining lease from Pitchfork "M" Corporation, lessor, to Springs Consultants, Inc., lessee, dated September 16, 1979, amended September 16, 1985; recorded March 8, 1980 in Book 218 at Page 374 and May 27, 1986 in Book 233 at Page 205. This mining lease covers patented lode mining claims Gold King Extension and Gold King Extension #1 through #5, inclusive, Mineral Survey No. 19965.

Bk 231 Pg 635

B. Patented and Unpatented Claims In Which Sunnyside Has An Interest by Lease, Ownership Or Otherwise:

UNPATENTED CLAIMS[1]

Claim Name	Property Description	BHC Coordinates N	E	BLM No.
Marcy-Shenandoah Lease (original claims)				
Boston Amended	NE-14-42N-7W-NMPM			71062
Buck	NW-14-42N-7W-NMPM			71063
Cub	NE-15-42N-7W-NMPM			71064
Goat	NE-15-42N-7W-NMPM			71065
Harold Amended	SE-14-42N-7W-NMPM			71066
Kid	NE-15-42N-7W-NMPM			71067
Knob	SW-10-42N-7W-NMPM			71068
Midway No. 7	NE-14-42N-7W-NMPM			71071
Midway No. 8	NE-14-42N-7W-NMPM			71072
Midway No. 9	NE-14-42N-7W-NMPM			71073
Midway No. 10	NE-14-42N-7W-NMPM			71074
Midway No. 11	SE-15-42N-7W-NMPM			71075
Mountadon Millsite	NE-14-42N-7W-NMPM			71076
Northern Pacific Amended	NW-14-42N-7W-NMPM			71077
Pronto Amended	SE-10-42N-7W-NMPM			71078
Protected Amended	SE-14-42N-7W-NMPM			71079
Standard	SE-10-42N-7W-NMPM			71080
St. Joe Amended	NW-14-42N-7W-NMPM			71081
February 20, 1985 Agreement Modifying Marcy-Shenandoah Lease				
Algonta Lode	SW-10-42N-7W-NMPM	19	16	69958
American Tunnel No. 1	N/2-21-42N-7W-NMPM	12	11	6347
Bethesian Lode	SW-14, SE-15, NE-22, NW-23-42N-7W-NMPM	14	21	6337
Big John	NW-22-42N-7W-NMPM			160683
Bonita Lode	SE-15, NE-22-42N-7W-NMPM	14	18	6341
Bonita Ridge Lode	NE-15-42N-7W-NMPM	16	19	69949
Boundary Lode	SW-14, NW-23-42N-7W-NMPM	14	22	6316
Bridge Millsite	SE-17-42N-7W-NMPM			167890
Centennial Lode	SE-7-42N-7W-NMPM	19	15	69957
Delta Lode	SW-14, SE-15, NE-22, NW-23-42N-7W-NMPM	14	21	6330
Gladstone Millsite	NW-21-42N-7W-NMPM	12	11	82529
Moultrie No. 2	SE-10-42N-7W-NMPM			71069
Moultrie No. 3	SE-10-42N-7W-NMPM			71070
Oklahoma Ring	SE-15-42N-7W-NMPM			160145

[1]Where possible, the lease or other document covering particular claims has been identified by an appropriate subheading.

A-24

UNPATENTED CLAIMS

Claim Name	Property Description	SMC Coordinates N	SMC Coordinates E	BLM No.
Bob No. 1	SW-19-42N-6W-NMPM			199719
Bob No. 2	SW-19-42N-6W-NMPM			199720
Bob No. 3	SE-19-42N-6W-NMPM			199721
Bob No. 4	SE-19-42N-6W-NMPM			199722
Bob No. 5	SW-19-42N-6W-NMPM			199723
Bob No. 6	SE-24-42N-7W-NMPM			199724
Bob No. 7	SE-24-42N-7W-NMPM			199725
Bob No. 8	NE-24-42N-7W-NMPM			199726
Bob No. 9	NW-19-42N-6W-NMPM			199727
Bob No. 10	NW-19-42N-6W-NMPM			199728
Bob No. 13	NE-24-42N-7W-NMPM			199729
Bob No. 14	NW-19-42N-6W-NMPM			199730
Bob No. 16	NE-24-42N-7W-NMPM			200829
Bob No. 19	SE-13-42N-7W-NMPM			200830
Bob No. 22	SE-13-42N-7W-NMPM			200832
McCarty No. 39	NW-13-42N-7W-NMPM			200836
McCarty No. 44	NE-14-42N-7W-NMPM			200837
McCarty No. 45	NW-14-42N-7W-NMPM			200838
McCarty No. 47	SW-13-42N-7W-NMPM			200839
McCarty No. 48	SW-13-42N-7W-NMPM			200840
McCarty No. 51	SW-13-42N-7W-NMPM			200841
McCarty No. 55	NW-13-42N-7W-NMPM			200842
McCarty No. 56	NW-13-42N-7W-NMPM			200843
McCarty No. 57	NE-14-42N-7W-NMPM			200844
Bob No. 36	NW-24-42N-7W-NMPM			200182
Bob No. 37	NE-24-42N-7W-NMPM			200183
Bob No. 40	NE-24-42N-7W-NMPM			200184
McCarty No. 34	SW-24-42N-7W-NMPM			200185
McCarty No. 36	SE-14-42N-7W-NMPM			200186
McCarty No. 37	SW-13-42N-7W-NMPM			200187
McCarty No. 38	SW-13-42N-7W-NMPM			200188
McCarty No. 49	NW-24-42N-7W-NMPM			200189
McCarty No. 50	NW-24-42N-7W-NMPM			200190
McCarty No. 52	NW-24-42N-7W-NMPM			200191
McCarty No. 53	NW-24-42N-7W-NMPM			200192
McCarty No. 54	NW-24-42N-7W-NMPM			200193
McCarty No. 21	NE-23-42N-7W-NMPM			200725
McCarty No. 22	NE-23-42N-7W-NMPM			200726
McCarty No. 23	SE-23-42N-7W-NMPM			200727
McCarty No. 24	SE-23-42N-7W-NMPM			200728
McCarty No. 25	SE-23-42N-7W-NMPM			200729
McCarty No. 26	SW-24-42N-7W-NMPM			200730
McCarty No. 27	SW-24-42N-7W-NMPM			200731
McCarty No. 28	SW-24-42N-7W-NMPM			200732
McCarty No. 29	NE-23-42N-7W-NMPM			200733
McCarty No. 30	NE-23-42N-7W-NMPM			200734

Bk 237
pg 627

UNPATENTED CLAIMS

Claim Name	Property Description	SMC Coordinates N	E	BLM No.
McCarty No. 31	NE-23-42N-7W-NMPM			200735
McCarty No. 32	NE-23-42N-7W-NMPM			200736
McCarty No. 33	SW-24-42N-7W-NMPM			200737
McCarty No. 35	SW-24-42N-7W-NMPM			200738
Bob No. 11	NW-19-42N-6W-NMPM			201342
Bob No. 12	NE-19-42N-6W-NMPM			201343
Bob No. 15	NW-19-42N-6W-NMPM			201344
Bob No. 17	NW-19-42N-6W-NMPM			201345
Bob No. 18	NW-19-42N-6W-NMPM			201346
Bob No. 25	SE-13-42N-6W-NMPM			201349
Bob No. 39	SW-18-42N-6W-NMPM			201359
Bob No. 41	NE-24-42N-7W-NMPM			201360
McCarty No. 40	SE-14-42N-7W-NMPM			201361
McCarty No. 41	NE-14-42N-7W-NMPM			201362
McCarty No. 42	SE-14-42N-7W-NMPM			201363
McCarty No. 43	NE-14-42N-7W-NMPM			201364
McCarty No. 46	NE-14-42N-7W-NMPM			201365
Diamond Jim	NE-22-42N-7W-NMPM			160688
Dubbe Lode	NW-15-42N-7W-NMPM	18	16	6334
Easy Money Lode	SE-15-42N-7W-NMPM	16	19	6348
E Pluribus Fat Lode	SE-9-42N-7W-NMPM	19	14	69956
Fairchild Lode	SW-10-42N-7W-NMPM	19	17	69955
Gamma Lode	SW-14, SE-15, NW-23-42N-7W-NMPM	15	21	6340
Goat Annex Lode	SW-14, SE-15-42N-7W-NMPM	15	20	6344
Goat Extension Lode	SE-15-42N-7W-NMPM	15	18	6345
Hi Ho Silver Lode	SE-15, NE-22-42N-7W-NMPM	14	19	69951
Joker Lode	All-14-42N-7W-NMPM	17	22	6333
Keystone Lode	SW-18-42N-7W-NMPM	20	16	69954
Lac Char Lode	W/2-23-42N-7W-NMPM	13	22	6335
McCarty Lode	W/2-23-42N-7W-NMPM	13	23	6331
Omega Lode	SW-10-42N-7W-NMPM	20	17	69953
Orcus Lode	NW-14-42N-7W-NMPM	18	21	6332
Silverton Fat Lode	SE-9-42N-7W-NMPM	18	15	69952
SM-1	SW-10-42N-7W-NMPM	19	16	69959
SM-4	SW-11-42N-7W-NMPM	19	21	69960
SM-5	SW-11-42N-7W-NMPM	15	22	69961
SM-6	SE-11-42N-7W-NMPM	19	23	69962
SM-7	SW-10-42N-7W-NMPM	18	16	69963
SM-11	SW-11-42N-7W-NMPM	18	22	69964
SM-12	SE-11-42N-7W-NMPM	18	23	69965
SM-13	SW-10-42N-7W-NMPM	18	16	69966
SM-14	SW-10-42N-7W-NMPM	18	18	69967
SM-15	SE-10-42N-7W-NMPM			70245
SM-17	SW-10-42N-7W-NMPM	18	22	69968
SM-19	NW-15-42N-7W-NMPM	17	16	69969

A-26

BL 237
pg 628

Claim Name	Property Description	SMC Coordinates N	SMC Coordinates E	BLM No.
SM-20	NW-15-42N-7W-NMPM	17	18	69970
SM-25	NW-15-42N-7W-NMPM	17	16	69971
SM-26	NW-15-42N-7W-NMPM	17	16	69972
SM-28	NW-14-42N-7W-NMPM			70244
SM-31	NW-15-42N-7W-NMPM	16	16	69973
SM-48	NE-14-42N-7W-NMPM	15	24	69974
SM-56	SE-14-42N-7W-NMPM	14	24	69975
SM-57	SE-15-42N-7W-NMPM	13	19	69976
SM-58	SW-14-42N-7W-NMPM	13	21	69977
SM-60	SE-14-42N-7W-NMPM	13	24	69978
SM-63	SE-15-42N-7W-NMPM	13	19	69979
SM-64	SW-14-42N-7W-NMPM	13	21	69980
SM-65	SW-14-42N-7W-NMPM	13	22	69981
SM-69	SE-15-42N-7W-NMPM	12	19	69982
SM-70	SW-14-42N-7W-NMPM	12	21	69983
Boulder	SE-24-42N-7W-NMPM	9	30	61916
Connie	SW-19-42N-6W-NMPM	8	32	61913
Joll	NE-24-42N-7W-NMPM	9	31	61918
Midway	NE-24-42N-7W-NMPM	9	29	61915
Somerset Ext	SW-19-42N-6W-NMPM	9	32	61919
Walwood	SW-19-42N-6W-NMPM	8	33	61917
Wolfgang	NE-24-42N-7W-NMPM	10	29	61914
McCarty No. 2	NW-23-42N-7W-NMPM	12	22	23975
McCarty No. 3	NW-23-42N-7W-NMPM	12	23	23976
McCarty No. 4	NE-23-42N-7W-NMPM	11	24	23977
McCarty No. 5	NW-23-42N-7W-NMPM	11	22	23978
McCarty No. 6	NE-23-42N-7W-NMPM	10	23	23979
McCarty No. 7	NW-23-42N-7W-NMPM	10	22	35577
Full House	SW-14-42N-7W-NMPM	12	22	23973
Full House Annex	NW-23-42N-7W-NMPM	11	21	35584
Lac Char Annex	SW-14-42N-7W-NMPM	13	23	23974
Morarda/Bennett Lease/Treasure Mountain Claims				
Silverado No. 9	NW-12-42N-7W-NMPM			1490
Silverado No. 10	NE-11-42N-7W-NMPM			1491

Bk. 237
pg. 629

UNPATENTED CLAIMS

Claim Name	Property Description	BMC Coordinates N	BMC Coordinates E	BLM No.
Noranda/Great Divide Lease/Treasure Mountain Claims				
Bear No. 12	All-31-42N-6W-NMPM			77877
Byron No. 1	SW-18-42N-6W-NMPM NE-13-42N-7W-NMPM			77868
Byron No. 2	NW-18-42N-6W-NMPM			77869
Byron No. 3	SW-7, NW-18-42N-6W-NMPM			77870
Copper Boy No. 1	SW-17, SE-18-42N-6W-NMPM			77872
Copper Boy No. 2	SW-17-42N-6W-NMPM			77873
Copper Boy No. 3	SW-17, SE-18-42N-6W-NMPM			77874
Duplex	SE-30, NE-31-42N-6W-NMPM			77841
Duplex No. 1	SE-30-42N-6W-NMPM			77842
Duplex No. 2	SE-30, NE-31-42N-6W-NMPM			77843
Duplex No. 3	SE-30, NE-31-42N-6W-NMPM			77844
Duplex No. 4	SW-29, NE-31-42N-6W-NMPM			77845
Duplex No. 5	NE-31, NW-32-42N-6W-NMPM			77846
Duplex No. 6	NW-32-42N-6W-NMPM			77847
Duplex No. 7	SW-29, W/2-32-42N-6W-NMPM			77848
Duplex No. 8	NW-32-42N-6W-NMPM			77849
Francis No. 1	NW-17-42N-6W-NMPM			77880
Golden Fleece No. 1	W/2-13-42N-7W-NMPM			77862
Golden Fleece No. 2	W/2-13-42N-7W-NMPM			77863
Golden Fleece No. 3	SW-12-42N-7W-NMPM			77864
Golden Fleece No. 4	SW-12, NW-13-42N-7W-NMPM			77865
Tom Moore No. 1	SE-18-42N-6W-NMPM			77852
Tom Moore No. 2	S/2-18-42N-6W-NMPM			77853
Tom Moore No. 3	W/2, SE-18-42N-6W-NMPM			77854
Tom Moore No. 5	S/2-12-42N-7W-NMPM			77855
Tom Moore No. 6	NW-13-42N-7W-NMPM			77856
Nantucket No. 1	E/2-13-42N-7W-NMPM			77875
Nexia	NW-18-42N-6W-NMPM NE-13-42N-7W-NMPM			77857
Nexia No. 2	NW-18-42N-6W-NMPM NE-13-42N-7W-NMPM			77858
Nexia No. 3	SW-7, NW-18-42N-6W-NMPM			77859
Nexia No. 4	SW-7-42N-6W-NMPM			77860
Nexia No. 6	SW-7, NW-8-42N-6W-NMPM SE-2, NE-13-42N-7W-NMPM			77861
B.C.M.	S/2-8, W/2-17-42N-6W-NMPM			77879
Slide	NW-17, NE-18-42N-6W-NMPM			77881
Treasure Mountain	NE-13-42N-7W-NMPM			77823
Treasure Mountain No. 1	NE-13-42N-7W-NMPM			77824
Treasure Mountain No. 2	NE-13-42N-7W-NMPM			77825
Treasure Mountain No. 3	SE-12, NE-13-42N-7W-NMPM			77826
Treasure Mountain No. 4	S/2-12, NE-13-42N-7W-NMPM			77827
Treasure Mountain No. 5	SW-7-42N-6W-NMPM SE-12-42N-7W-NMPM			77828

Bk.237
pg.630

UNPATENTED CLAIMS

Claim Name	Property Description	SMC Coordinates N	SMC Coordinates E	BLM No.
Treasure Mountain No. 8	SW-7-42N-6W-NMPM SE-12-42N-7W-NMPM			77831
Treasure Mountain No. 9	NW-13-42N-7W-NMPM NE-14-42N-7W-NMPM			77832
Treasure Mountain No. 10	SW-7-42N-6W-NMPM SE-12-42N-7W-NMPM			77833
Treasure Mountain No. 11	S/2-12-42N-7W-NMPM			77834
Treasure Mountain No. 12	SW-7-42N-6W-NMPM			77835
Treasure Mountain No. 13	SW-7-42N-6W-NMPM			77836
Treasure Mountain No. 14	S/2-7-42N-6W-NMPM			77837
Treasure Mountain No. 15	W/2-18-42N-6W-NMPM			77838
Treasure Mountain No. 16	N/2-18-42N-6W-NMPM			77839
Treasure Mountain No. 17	N/2, SW-18-42N-6W-NMPM			77840
Float Gold Placer Tract A	NE-1-41N-7W-NMPM SW-31-42N-6W-NMPM			77882
Float Gold Placer Tract B				
Float Gold Placer Tract C	SW-31-42N-6W-NMPM SE-36-42N-7W-NMPM			77883
Tempest Tunnel Site	N/2-2-42N-7W-NMPM SE-34, S/2-32-43N-7W-NMPM			77878
Noranda/Blackwood, et al./Treasure Mountain Claims				
Flower	N/2-7-42N-6W-NMPM			1494
Flower No. 1	N/2-7-42N-6W-NMPM			1495
Flower No. 2	NE-7-42N-6W-NMPM			1496
Grace S.	NW-7-42N-6W-NMPM			1501
Kinnear	NW-7-42N-6W-NMPM E/2-12-42N-7W-NMPM			1502
McNamee	S/2-6, W/2-7-42N-6W-NMPM			1500
W.Y.O.D.	NW-7-42N-6W-NMPM			1497
W.Y.O.D. No. 1	W/2-7-42N-6W-NMPM			1498
W.Y.O.D. No. 2	All-7-42N-6W-NMPM			1499
Noranda/Noranda Claims/Treasure Mountain Claims				
Cummingtonite	SE-7-42N-6W-NMPM			11730
Doggy Wog	SE-7-42N-6W-NMPM			11728
G. O. Fraction	NW-12-42N-7W-NMPM			79233
Snowdrift No. 1	S/2-12-42N-7W-NMPM			177989
Snowdrift No. 2	E/2-12-42N-7W-NMPM			177990
Snowdrift No. 3	W/2-7-42N-6W-NMPM E/2-12-42N-7W-NMPM			177991
Snowdrift No. 4	SE-12-42N-7W-NMPM			177992

Bk. 237
Pg 631

UNPATENTED CLAIMS

Claim Name	Property Description	BMC Coordinates N	BMC Coordinates E	BLM No.
Snowdrift No. 5	W/2-7-42N-6W-NMPM E/2-12-42N-7W-NMPM			177993
Snowdrift No. 6	W/2-7-42N-6W-NMPM			177994
Snowdrift No. 7	SW-7-42N-6W-NMPM SE-12-42N-7W-NMPM			177995
Snowdrift No. 8	W/2-7-42N-6W-NMPM			177996
Tube Stake	SE-7-42N-6W-NMPM			11729
Moranda/Bennett Lease/California Mountain Claims				
Miclam	SE-11-42N-7W-NMPM			1492
Silverado No. 1	NE, S/2-11-42N-7W-NMPM			1482
Silverado No. 2	E/2-11-42N-7W-NMPM			1483
Silverado No. 3	S/2-11-42N-7W-NMPM			1484
Silverado No. 4	S/2-11-42N-7W-NMPM			1485
Silverado No. 5	S/2-11-42N-7W-NMPM			1486
Silverado No. 6	All-11-42N-7W-NMPM			1487
Silverado No. 7	NE-11-42N-7W-NMPM			1488
Silverado No. 8	E/2-11-42N-7W-NMPM			1489
Silver Queen Millsite	W/2-12-42N-7W-NMPM			1493
Moranda/Great Divide Lease/California Mountain Claims				
Byron No. 4	NW-13-42N-7W-NMPM			77871
Empire No. 9	NE-19-42N-6W-NMPM			77850
Empire No. 10	SE-18, NW-20-42N-6W-NMPM			77851
Golden Fleece No. 5	SW-13-42N-7W-NMPM			77866
Golden Fleece No. 6	W/2-13-42N-7W-NMPM			77867
Nantucket No. 2	NE, S/2-13-42N-7W-NMPM			77876
Treasure Mountain No. 6	All-13-42N-7W-NMPM			77829
Treasure Mountain No. 7	W/2-13-42N-7W-NMPM			77830
Moranda/Moranda Claims/California Mountain Claims				
Comstock Fraction	NE-11, NW-12-42N-7W-NMPM			79235
Florence Fraction	SE-11, NE-14-42N-7W-NMPM			79237
Independence Fraction	SE-11-42N-7W-NMPM			79234
Neptune Fraction	E/2-11-42N-7W-NMPM			79236
Pickup Fraction	SW-12-42N-7W-NMPM			79232

Bk 237
Pg. 632

UNPATENTED CLAIMS

Claim Name	Property Description	SMC Coordinates N	SMC Coordinates E	BLM No.
STANDARD METALS CORPORATION OWNERSHIP				
American Tunnel No. 2	NE-21-42N-7W-NMPM	13	13	6346
American Tunnel No. 3	SW-16-42N-7W-NMPM	12	13	35586
Arden Lode	SE-16-42N-7W-NMPM	14	17	69946
Bryce	NE-22-42N-7W-NMPM			160685
Echo	NE-22-42N-7W-NMPM			160683
Jarvis	SE-15-42N-7W-NMPM			160686
Jessica	SW-15-42N-7W-NMPM			160144
John and Mary Lode	SE-16-42N-7W-NMPM	13	14	69950
La Bolsa Lode	SE-15-42N-7W-NMPM	15	18	6339
Midas	NE-22-42N-7W-NMPM			160684
Occidental Lode	SE-16-42N-7W-NMPM	13	14	35585
Oriental Lode	SW-15-42N-7W-NMPM	13	15	69947
Parrado Lode	SW-15-42N-7W-NMPM	14	16	69948
Paymaster Ext Lode	S/2-15, NW-22-42N-7W-NMPM	14	17	6342
Tiros	NE-22-42N-7W-NMPM			160682
Zyrex	SW-16-42N-7W-NMPM			160146
McCarty No. 8	NW-23-42N-7W-NMPM	10	21	35578
McCarty No. 9	NW-23-42N-7W-NMPM	9	21	35579
McCarty No. 10	NW-23-42N-7W-NMPM	10	22	35580
McCarty No. 11	NW-23-42N-7W-NMPM	9	22	35581
McCarty No. 16	NE-22-42N-7W-NMPM	10	20	35582
McCarty No. 17	NW-23-42N-7W-NMPM	11	21	35583
Apollo 10	SW-14-41N-7W-NMPM	22	34	70248
Argentina Extension	SW-14-41N-7W-NMPM	21	34	70249
Belinda	SE-15-41N-7W-NMPM	20	33	70250
Betsey	SE-10-41N-7W-NMPM	24	33	70251
Big mac	NE-15-41N-7W-NMPM	23	32	70252
Buckhorn	SW-14-41N-7W-NMPM	20	34	70253
Cortina	NE-15-41N-7W-NMPM	22	32	70254
Exxo R Ext	SE-15-41N-7W-NMPM	21	33	70255
Fobia	SW-11-41N-7W-NMPM	24	34	70256
Gretchen	NE-15-41N-7W-NMPM	24	33	70257
Jay Bird	NE-15-41N-7W-NMPM	24	32	70258
John B	NW-14-41N-7W-NMPM	23	33	70259
Midnight	SW-14-41N-7W-NMPM	20	33	70260
Ming	SW-14-41N-7W-NMPM	21	34	70261
Molly B	SW-14-41N-7W-NMPM	20	34	70262
Mason	SE-15-41N-7W-NMPM	21	32	70263
Peggy	NW-14-41N-7W-NMPM	23	34	70264
Sam	NE-15-41N-7W-NMPM	24	31	70265
Whitehawk	NW-14-41N-7W-NMPM	23	33	70244
Bunsen Millsite	SW-9-41N-7W-NMPM	26	24	5462
Birdbath Millsite	NW-16-41N-7W-NMPM			191073

A-31

Bk. 237
Pg 633

UNPATENTED CLAIMS

Claim Name	Property Description	SMC Coordinates N	SMC Coordinates E	BLM No.
Boulder Mt No. 1 MS	SW-9-41N-7W-NMPM	25	33	5467
Boulder Mt No. 2 MS	SW-9-41N-7W-NMPM	25	33	5466
Boulder Mt No. 3 MS	SW-9-41N-7W-NMPM	25	23	5469
Divco Millsite	SW-9-41N-7W-NMPM	27	25	5463
Dynasty Millsite	SW-9-41N-7W-NMPM	26	25	5470
Juan Carlos Millsite	SW-9-41N-7W-NMPM	26	34	5461
Franco Millsite	SW-9-41N-7W-NMPM	26	24	5465
Karla Millsite	NE-9-41N-7W-NMPM	28	26	5460
Marge Millsite	SE-9-41N-7W-NMPM	26	26	5457
New Deal Millsite	NE-9-41N-7W-NMPM	27	25	5455
Overlow Millsite	NE-9-41N-7W-NMPM	28	27	48417
Plumbers Millsite	NE-9-41N-7W-NMPM	28	27	5453
Powerline Millsite	SW-9-41N-7W-NMPM	25	23	5468
P.S. Millsite	N/2-21-41N-7W-NMPM	29	35	5452
Savage Sam Millsite	NE-9-41N-7W-NMPM	27	26	5459
Shenandoah Millsite	SE-9-41N-7W-NMPM	27	25	5464
Surprise Millsite	NW-10-41N-7W-NMPM	28	26	5454
Tricky Dick Millsite	NW-10-41N-7W-NMPM	28	29	5458
Watergate Millsite	NE-9-41N-7W-NMPM	28	26	5456
Equestrian Placer	SW-9-41N-7W-NMPM	27	26	104609
Bob No. 20	SW-18-42N-6W-NMPM			200831
Bob No. 23	SW-18-42N-6W-NMPM			200833
Bob No. 26	SW-19-42N-6W-NMPM			200834
Bob No. 28	SE-13-42N-7W-NMPM			200835
Bob No. 21	SW-18-42N-6W-NMPM			201347
Bob No. 24	SW-18-42N-6W-NMPM			201348
Bob No. 27	SW-18-42N-6W-NMPM			201350
Bob No. 29	SE-13-42N-6W-NMPM			201351
Bob No. 30	SW-18-42N-6W-NMPM			201352
Bob No. 31	SW-18-42N-6W-NMPM			201353
Bob No. 32	SW-18-42N-6W-NMPM			201354
Bob No. 33	SW-18-42N-6W-NMPM			201355
Bob No. 34	SW-18-42N-6W-NMPM			201356
Bob No. 35	SW-18-42N-6W-NMPM			201357
Bob No. 36	SW-18-42N-6W-NMPM			201358
McCarty No. 58	SW-12-42N-7W-NMPM			200845
McCarty No. 59	SE-12-42N-7W-NMPM			200846
McCarty No. 18	SW-23-42N-7W-NMPM			200722
McCarty No. 19	SE-23-42N-7W-NMPM			200723
McCarty No. 20	SE-23-42N-7W-NMPM			200724

Bk 237
Pg 624

PATENTED CLAIMS

Claim Name Patentee	Property Description	SMC Coordinates N	E	Mineral Survey No.	Patent No.	Patent Date	Patentee
Brenneman Lease							
Black Heath	15-42N-7W-NMPM	17	19	465	6231	07-31-82	Philip Brenneman, Jr.
Buck Run	10/11-42N-7W-NMPM	18	18	18836	148156	08-04-10	Philip Brenneman, Jr.
Dana	14/15-42N-7W-NMPM	18	19	484	6286	08-15-82	Philip Brenneman, Jr.
M. E. Harrison (Past 950 ft)	15-42N-7W-NMPM	18	19	469	6226	07-31-82	Philip Brenneman, Jr.
Kohinoor	10/11-42N-7W-NMPM	18	19	18836	148156	08-04-10	Philip Brenneman, Jr.
Monarch	10/11-42N-7W-NMPM	18	18	18836	148156	08-04-10	Philip Brenneman, Jr.
Belle Creole Lease							
Belle Creole (Und 1/4)	14-42N-7W-NMPM	16	21	2021	11230	11-24-86	George W. Howard
Belle Creole (Und 1/4)	14-42N-7W-NMPM	16	21	2021	11230	11-24-86	George W. Howard
Belle Creole (Und 1/2)	14-42N-7W-NMPM	16	21	2021	11230	11-24-86	George W. Howard
Grand Duke (Und 1/4)	14-42N-7W-NMPM	17	20	2020	11229	11-24-86	George W. Howard
Grand Duke (Und 1/4)	14-42N-7W-NMPM	17	20	2020	11229	11-24-86	George W. Howard
Grand Duke (Und 1/2)	14-42N-7W-NMPM	17	20	2020	11229	11-24-86	George W. Howard
Oracle (Und 1/4)	7-42N-7W-NMPM	17	20	17812	44842	10-31-07	George W. Howard
Oracle (Und 1/4)	7-42N-7W-NMPM	17	20	17812	44842	10-31-07	George W. Howard
Oracle (Und 1/2)	7-42N-7W-NMPM	17	20	17812	44842	10-31-07	George W. Howard
Marcy-Shenandoah Lease (original claims)							
Alma	24-42N-7W-NMPM			1708	11227	11-24-86	N. M. Engleman
Anaconda	14-42N-7W-NMPM			18020	46982	05-21-08	John H. Terry
Bavarian Lode	23-42N-7W-NMPM			1396	9390	06-14-84	Maurice J. Condon, et al.
Beaubrec	24-42N-7W-NMPM			1709	14789	04-04-89	Frank Alexander
Ben Butler	31-43N-6W-NMPM			1291	25653	05-28-95	E. B. Greenleaf, et al.
Blucher	24-42N-7W-NMPM			1490	11228	11-24-86	James Morrison
Briggs	23-42N-7W-NMPM			8400	24760	09-08-94	J. E. Briggs, et al.
Butte City	14-42N-7W-NMPM			18020	46982	05-21-08	John H. Terry
Centennial	20-42N-6W-NMPM			16635	39811	10-31-04	William P. Cobb, et al.
Chariton	24-42N-7W-NMPM			1706	16571	08-07-90	James W. Platt
Climax	14-42N-7W-NMPM			12723	31198	06-17-99	E. L. Osborn, et al.
Clipper	14-42N-7W-NMPM			1689	14101	09-20-88	James W. Platt
Crown Jewel	14-42N-7W-NMPM			20003	1065628	08-18-33	The Sunnyside Mining & Milling Co.
Currency	24-42N-7W-NMPM			1244A	12435	08-19-87	The Silver Globe Mining Co.
Dakota and San Juan Placer	6-42N-6W-NMPM			112	4498	02-12-81	Dakota and San Juan Mining Co.
Denver Lode	24-42N-7W-NMPM			1403	9314	04-02-84	The Holliday Mining Co.
Detroit	15-42N-7W-NMPM			16831	41976	04-03-05	Quaker Sophia M. Beach
Doctor	13/14-42N-7W-NMPM			20934	16315	05-21-90	L. C. Osborne
Doctor Millsite	13/14-42N-7W-NMPM			20938	16315	05-21-90	L. D. Osborne
Eighty Nine	24-42N-7W-NMPM			16997	42151	03-20-06	John H. Terry
Esmeralda	14-42N-7W-NMPM			16165	38633	05-03-04	Henry Sherman
Estey	24-42N-7W-NMPM			13189	32824	07-23-04	John L. Estey
Eureka Lode Millsite	20-42N-6W-NMPM			420	5940	05-31-82	J. B. Winspear

A-33

Bk 337
Pg. 636

PATENTED CLAIMS

Claim Name	Property Description	SMC Coordinates N	E	Mineral Survey No.	Patent No.	Patent Date	Patentee
Eureka Power Millsite	19-42N-6W-NMPM			16937B	42149	10-03-05	John H. Terry
First National	24-42N-7W-NMPM			1245A	12436	08-15-87	The Silver Globe Mining Co.
Forks of Eureka Millsite	24/25-42N-7W-NMPM			16724B	41104	11-06-05	John H. Terry
George Washington	14/15-42N-7W-NMPM			2028	11523	02-07-87	R. J. McNutt and M. M. Engleman
Gold Prince	14-42N-7W-NMPM			20003	1065628	08-18-33	The Sunnyside Mining & Milling Co.
Grand	24-42N-7W-NMPM			2573	16424	06-06-90	N. O. Montague, et al.
Grand Prize	24-42N-7W-NMPM			1701	11454	01-25-87	John Guthrie, et al.
Grand View	( )-42N-7W-NMPM			17202	42914	10-03-05	The Quartz Mining & Milling Co.
Great Eastern	23-42N-7W-NMPM			1691	10696	06-30-86	W. E. Webb, et al.
Herman Lode	24-42N-7W-NMPM			1397	10408	03-08-86	Frank Alexander
Hidden Treasure	13-42N-7W-NMPM			5030	17563	04-08-91	R. Hanson
Hidden Treasure Extension	14-42N-7W-NMPM			20003	1065628	08-18-33	The Sunnyside Mining & Milling Co.
Independent	24-42N-7W-NMPM			17401	43492	07-20-06	Helen Benson & William Bird
Lake	14-42N-7W-NMPM			2027	15687	03-13-90	Frank Barlow & Emma Engleman
Last Chance	( )-42N-7W-NMPM			17901	110023	02-10-10	John H. Terry
Little Mary	14-42N-7W-NMPM			2036	15010	06-01-89	Frank L. Thompson
Lizzie Morris	24-42N-7W-NMPM			1702	11455	06-25-87	John Guthrie, et al.
Lulu Carroll	15-42N-7W-NMPM			837	7806	06-15-83	M. M. Engleman, et al.
Lyman Strong	12-42N-7W-NMPM			2678	22302	12-02-92	Mastodon Mining & Reduction Co.
Mastodon Lode	13/14-42N-7W-NMPM			216	5459	03-16-82	Mastodon Mining & Reduction Co.
Metropolis	23/24-42N-7W-NMPM			1398	10423	03-17-86	Maurice J. Condon, et al.
Mother Goose	( )-42N-7W-NMPM			17234	42919	10-03-05	The Quartz Mining & Milling Co.
Moultrie Lode	14-42N-7W-NMPM			173	4685	05-16-81	Walter Beson
Mountain Sheep	14-42N-7W-NMPM			17432	45096	10-31-07	John H. Terry
Muskegon Lode	24-42N-7W-NMPM			1394	9389	06-14-84	Maurice J. Condon, et al.
Napoleon	24-42N-7W-NMPM			17431	44404	09-25-06	John H. Terry
Nasby	19-42N-6W-NMPM			2508	15009	06-04-89	Jno. B. Groves
New York	24-42N-7W-NMPM			8199	26325	12-19-95	The San Juan Mining & Milling Co.
No Name	24-42N-7W-NMPM			2272	22694	04-05-93	The Eureka Gulch Mining Co.
Oregon	( )-42N-7W-NMPM			17233	42968	10-03-05	The Quartz Mining & Milling Co.
Palos	14-42N-7W-NMPM			18732	144740	07-18-10	Henry Sherman, et al.
Palos No. 1	14-42N-7W-NMPM			18732	144740	07-18-10	Henry Sherman, et al.
Palos No. 2	14-42N-7W-NMPM			18732	144740	07-18-10	Henry Sherman, et al.
Pride of the Rockies	14-42N-7W-NMPM			7628	31534	09-10-99	Rasmus Hanson
Protection	14-42N-7W-NMPM			20003	1065628	08-18-33	The Sunnyside Mining & Milling Co.
Pearl	14-42N-7W-NMPM			5875	19976	03-11-92	Thomas Neat
Quail	14-42N-7W-NMPM			20003	1065628	08-18-33	The Sunnyside Mining & Milling Co.
Ramus Lode	24-42N-7W-NMPM			1401	9312	06-02-84	The Holliday Mining Co.
Raymond	14-42N-7W-NMPM			18020	46982	05-21-08	John H. Terry
Republic	14-42N-7W-NMPM			12728	31197	06-17-99	E. L. Osborne, et al.
Rocium	24/25-42N-7W-NMPM			16724A	41104	11-06-05	John H. Terry
Roving Ranger Lode	29-42N-6W-NMPM			1518	5480	04-29-82	J. H. Winspear
Roving Ranger Millsite	29-42N-6W-NMPM			1518	5480	04-29-82	J. H. Winspear
Ruby	14-42N-7W-NMPM			18020	46982	05-21-08	John H. Terry
Senator	20-42N-6W-NMPM			16804	40898	04-19-05	John P. Johnson & Edward Clement
Shoshone	14/23-42N-7W-NMPM			17201	42917	09-05-05	The Quartz Mining & Milling Co.
Silver Bow	14-42N-7W-NMPM			18020	46982	05-21-08	John H. Terry

A-34

Bk 237
Pg. 636

PATENTED CLAIMS

Claim Name	Property Description	SMC Coordinates N	E	Mineral Survey No.	Patent No.	Patent Date	Patentee
Somerset	19-42N-6W-NMPM			16977A	42149	05-28-06	John H. Terry
Sunnyside Lode	14-42N-7W-NMPM			438	5899	05-31-82	M. M. Engleman, et al.
Sunnyside Annex	14-42N-7W-NMPM			16668	40377	01-31-05	John H. Terry
Sunnyside #2	14-42N-7W-NMPM			20003	1065628	08-18-33	The Sunnyside Mining & Milling Co.
Sunnyside Extension	14-42N-7W-NMPM			1180	15459	01-04-90	L. C. Osborne
Tayner	20-42N-6W-NMPM			16804	40898	04-19-05	John P. Johnson & Edward Clement
Terry	14-42N-7W-NMPM			17986	45383	03-05-08	John H. Terry
Thunderberg Lode	24-42N-7W-NMPM			1395	9380	06-14-84	Maurice J. Coudon, et al.
Timber	24/25-42N-7W-NMPM			16724A	41104	11-06-05	John H. Terry
Viper	8-42N-7W-NMPM			1858	11811	03-08-87	Rasmus Hanson, et al.
Wedge	14-42N-7W-NMPM			18160	79639	09-20-09	John H. Terry
Wellington	24-42N-7W-NMPM			16997	42151	07-20-06	John H. Terry
White Star	19-42N-6W-NMPM			14368	35562	06-03-02	Michael Helser

September 29, 1961 Sublease from United States Smelting Refining and Mining Company to Standard Metals Corporation (Mogul Sublease)

Cashier Lode (Und 9/10)	19-42N-6W-NMPM			134	3186	05-20-79	J. W. Winspear
Nantucket (Und 5/12)	13-42N-7W-NMPM			6958	21407	06-08-92	Jno. E. Carr, et al.
Pony (Und 1/3)	10-42N-7W-NMPM			2336	24758	09-08-94	L. J. Noftzger, Trustee
Taggert (Und 1/3)	11-42N-7W-NMPM			2338	24214	04-18-94	L. J. Noftzger, Trustee
Black Cat Lode (Lean Placer Ground)	21-42N-7W-NMPM	11	9	17975	105623	01-24-10	R. W. Hollis
Big America Lode	21-42N-7W-NMPM	11	9	17472	43374	06-11-06	D. A. Slagle
Calumete Lode	10-42N-7W-NMPM	20	16	1203	9632	07-30-84	The Culver Mining Co.
Crosscut Lode	15-42N-7W-NMPM	19	14	16523	39991	11-19-04	S. P. Mahan
Caucacus Lode	15-42N-7W-NMPM	18	17	468	6227	07-31-82	Phillip Brenneman, Jr.
E Pluribus Lode	10-42N-7W-NMPM	19	15	520	6060	06-30-82	F. M. Snowden, et al.
Grand Mogul Lode	10-42N-7W-NMPM	19	16	521	5970	06-15-82	F. M. Snowden, et al.
H.E. Morrison Lode (N 570 ft)	15-42N-7W-NMPM	18	19	469	6226	07-31-82	Phillip Brenneman, Jr.
Narrow Gauge Lode	15-42N-7W-NMPM	19	15	16523	39991	11-19-04	S. P. Mahan
Rosa Lode	16-42N-7W-NMPM	18	18	491	6228	07-31-82	Hugh Ross, et al.
Rob the Banter Lode	16-42N-7W-NMPM	19	14	778	8834	02-21-82	The Pine Bluff Mining Co.
Side Dish Lode	16-42N-7W-NMPM	19	13	5475	18145	06-17-91	Benjamin S. Nichols
Theresa Lode	15/16-42N-7W-NMPM	19	14	15968A	40372	01-31-05	Theodore Dick
W.G. Lode	15-42N-7W-NMPM	17	18	466	6229	07-31-82	Hugh Ross, et al.
Wincheater Lode	15-42N-7W-NMPM	17	18	467	6520	10-16-82	Hugh Ross, et al.
Young Lode	15-42N-7W-NMPM	19	13	16523	39991	11-19-04	S. P. Mahan
Holy Cross Lode	21-42N-7W-NMPM	11	10	17975	105623	01-24-10	R. W. Hollis
Theresa Millsite	15/16-42N-7W-NMPM	18	13	15968B	40372	01-31-05	Theodore Dick

Bk. 227
Pg. 627

PATENTED CLAIMS

Claim Name	Property Description	BMC Coordinates N	E	Mineral Survey No.	Patent No.	Patent Date	Patentee
Standard Metals Ownership							
Broad Gauge	36-43N-7W-NMPM			1392	9814	10-15-84	Edward W. Beattie, et al.
Bonny Belle	7-42N-6W-NMPM			18781	71059	07-08-09	A. A. Brown & Genevelve Brown
Callaway	1/6-42N-6W-NMPM 31-43N-6W			17891	45995	07-01-08	The Frisco Mining and Tunnel Co.
Camden	1/6-42N-6W-NMPM 31-43N-6W			17891	45995	07-01-08	The Frisco Mining and Tunnel Co.
Cannon	1/6-42N-6W-NMPM 31-43N-6W			17891	45995	07-01-08	The Frisco Mining and Tunnel Co.
Dr. Tracy	1/6-42N-6W-NMPM 31-43N-6W			17891	45995	07-01-08	The Frisco Mining and Tunnel Co.
Duquesne	36-43N-7W-NMPM			18207	46970	09-14-08	The Frisco Mining and Tunnel Co.
Gorilla and Improvements	6-42N-6W-NMPM 1-52N-7W			17549	43531	10-30-06	W. R. Bagley
Little Eddie	36-43N-7W-NMPM			749	10368	02-16-86	Ann E. McIntyre
Little Chief	36-43N-7W-NMPM			2351	14125	06-25-88	G. M. Nichol, et al.
Long	1/6-42N-6W-NMPM 31-43N-6W			17891	45995	07-01-08	The Frisco Mining and Tunnel Co.
McIntyre	36-43N-7W-NMPM			240	7510	04-30-83	Colorado Mining & Land Co.
Queen Mary	36-43N-7W-NMPM			182	6882	12-15-82	Yankton & San Juan Mining Co.
Queen of the West	21-43N-7W-NMPM			1215	9385	06-14-84	Edward W. Beattie, et al.
Sewell	36-43N-7W-NMPM			16930	41959	04-01-05	The Frisco Mining Co.
Vermillion	36-43N-7W-NMPM			115	3430	09-30-79	J. R. Hanson, et al.
Yankton Ext	36-43N-7W-NMPM			111	3920	04-26-80	J. R. Hanson, et al.
Yankton	36-43N-7W-NMPM			110	4496	02-12-81	J. R. Hanson, et al.
Ann Harris Placer	9-41N-7W-NMPM	26	25	11596	28491	08-07-97	Edward G. Stolber, et al.
Baird Placer	9-41N-7W-NMPM	27	27	11596	28491	08-07-97	Edward G. Stolber, et al.
Blair Placer	16/17-41N-7W-NMPM	25	35	848	7983	07-15-83	Thomas Blair
Blair Mountain Placer	10-41N-7W-NMPM	26	29	16468	41204	11-20-05	Solomon Guggenheim & Simon Guggenheim
Buena Vista	10-41N-7W-NMPM	28	28	14012	34052	05-21-01	Edward G. Stolber, et al.
B.B.G.	(1-41N-7W-NMPM	20	36	20564	1110481	02-18-41	Shenandoah-Dives Mining Co.
C.A.C.	(1-41N-7W-NMPM	21	35	20564	1110481	02-18-41	Shenandoah-Dives Mining Co.
G.M.M.	(1-41N-7W-NMPM	20	36	20564	1110481	02-18-41	Shenandoah-Dives Mining Co.
J.B.M.	(1-41N-7W-NMPM	21	35	20564	1110481	02-18-41	Shenandoah-Dives Mining Co.
C.M. Millsite	10-41N-7W-NMPM	28	27	20594B	1126475	06-13-49	Shenandoah-Dives Mining Co.
M.V.B. Millsite	10-41N-7W-NMPM	28	28	20594B	1126475	06-13-49	Shenandoah-Dives Mining Co.
Dives Fraction	24-41N-7W-NMPM	17	37	20059	879778	09-16-22	Daniel Maclean & Henry B. Mason
E.C.M. Millsite	10-41N-7W-NMPM	28	30	20595B	1120728	03-07-46	Shenandoah-Dives Mining Co.
M.M. Millsite	10-41N-7W-NMPM	28	29	20595B	1120728	03-07-46	Shenandoah-Dives Mining Co.
M.B. Millsite	10-41N-7W-NMPM	28	29	20595B	1120728	03-07-46	Shenandoah-Dives Mining Co.
M.N. Millsite	10-41N-7W-NMPM	28	29	20595B	1120728	03-07-46	Shenandoah-Dives Mining Co.
Tract A T.H.W. Millsite	10-41N-7W-NMPM	28	28	20595B	1120728	03-07-46	Shenandoah-Dives Mining Co.
Tract B T.H.W. Millsite	10-41N-7W-NMPM	28	28	20595B	1120728	03-07-46	Shenandoah-Dives Mining Co.
Esther Allen Tract B	10/16-41N-7W-NMPM	26	27	8801	25291	02-21-95	Edward G. Stolber

Bk 231
pg 638

PATENTED CLAIMS

Claim Name	Property Description	SHC Coordinates N	E	Mineral Survey No.	Patent No.	Patent Date	Patentee
Gold	10-41N-7W-NWPM	28	28	14012	34052	06-21-01	Edward G. Stolber, et al.
Gold Bug	16/23-41N-7W-NWPM			14393	35898	10-02-02	Casper Malchus & G. H. Malchus
Gold Bug Millsite	16/23-41N-7W-NWPM	23	23	143938	35898	10-02-02	Casper Malchus & G. H. Malchus
Herbert Placer	21-42N-7W-NWPM	11	9	13562	35681	07-01-02	Old Herbert
Huntington	24-41N-7W-NWPM	18	38	15351	37552	12-09-03	Jacob Fillius
Jeannette Roux Placer	9-41N-7W-NWPM	26	26	11596	28491	08-07-97	Edward G. Stolber, et al.
Kuroki	24-41N-7W-NWPM	18	37	17788	44027	04-22-07	G. H. Malchus
Mayflower	23-41N-7W-NWPM	20	35	1568	14898	05-03-89	Joseph W. Wallace
Mayflower No. 2	23-41N-7W-NWPM	20	35	16551	39818	10-31-04	The Heirs of J. W. Wallace, dec.
M. D. Thatcher Placer	S/10/16-41N-7W-NWPM	27	26	17699	?	07-31-09	Solomon Guggenheim & Simon Guggenheim
Mountain Quail	14/23-41N-7W-NWPM	21	37	1157	16859	12-04-90	The French Boy's Silver Mining Co.
Nevada Extension	22-41N-7W-NWPM			8497	24412	06-04-94	Edward G. Stolber
North Star	24-41N-7W-NWPM	17	37	297	5415	03-16-82	The North Star Mining & Smelting Co.
Peter Placer	9-41N-7W-NWPM	27	27	11596	28491	08-07-97	Edward G. Stolber, et al.
Polar Star MS	10-41N-7W-NWPM	27	27	7608	23116	06-20-93	John J. Crooke
Portland Consolidated	16-42N-7W-NWPM	12	12	13330	32743	07-10-00	Joseph B. Blizzard
Riverside (Part)	10/16-41N-7W-NWPM	26	26	8801	25291	02-21-95	Edward G. Stolber
Riverside (Part)	10/16-41N-7W-NWPM	26	26	8801	25291	02-21-95	Edward G. Stolber
"S" Millsite	10-41N-7W-NWPM	28	30	20407	1048978	06-14-31	Charles A. Chase, Agt.
Silver King	15-42N-7W-NWPM	17	37	1857	17098	01-21-91	James Morrison, Ramus Hansen & August Sorensen
Slide	23-41N-7W-NWPM	19	36	1331	17185	06-20-87	Wm. J. Forsyth
Terrible	21/28-41N-7W-NWPM	18	37	272	3717	02-06-80	E. A. Sheble, et al.
Togo	24-41N-7W-NWPM	19	36	17788	44027	04-22-07	G. H. Malchus
Yellow Jacket	24-41N-7W-NWPM	17	37	311	4980	10-18-81	Theophile Benjarsky

April 21, 1977 Mining Deed from Standard Metals Corporation to Washington Mining Company

Alexander	22-27-42N-7W-NWPM	15504	38483	04-09-04	Occidental Mining Company
Ana	22,27-42N-7W-NWPM	18849	220154	08-04-11	Amanda L. Cotton
Blue Bell	22,27-42N-7W-NWPM	18849	220154	08-04-11	Amanda L. Cotton
Camp Bird	21,27,28-42N-7W-NWPM	15061	38352	04-01-04	Natalie Mining & Milling Company
Cashier	10-42N-7W-NWPM	442	6715	11-15-82	Joseph P. Hale
Croesus	27-42N-7W-NWPM	19150	284067	07-15-12	Mary J. Stecker and Joseph R. Tagert
Dorothy	21,27,28-42N-7W-NWPM	15061	38352	04-01-04	Natalie Mining & Milling Company
Easy Street	27-42N-7W-NWPM	19150	284067	07-15-12	Mary J. Stecker and Joseph R. Tagert
Emma	10-42N-7W-NWPM	2273	17562	04-08-91	Morris Einstein
Emma	15-42N-7W-NWPM	17538	44909	11-24-06	Miles S. McPhee
Emma No. 2	15-42N-7W-NWPM	17538	44909	11-24-06	Miles S. McPhee
Family	36-43N-7W-NWPM	4801	17907	05-22-91	John Murphy
Fearless	11,12-42N-7W-NWPM	17011	42070	11-20-05	Frances A. Gibson
Fiction	27-42N-7W-NWPM	19150	284067	07-15-12	Mary J. Stecker and Joseph R. Tagert
Gold Peak	15-22-42N-7W-NWPM	16393	39587	09-16-04	J. H. Kloster and Mary Kloster
Hoffman	16-42N-7W-NWPM	5702	21840	08-12-92	William B. Severn
Iron Chancellor	27-42N-7W-NWPM	13247	32673	06-18-00	Casper Malchus and David Callen
Joe	22,27-42N-7W-NWPM	18849	220154	08-04-11	Amanda L. Cotton
Jupiter (Amd. 2/5)	12-42N-7W-NWPM	17034	41816	06-30-05	Sunlight Mining & Milling Co.
Klondyke	21,27,28-42N-7W-NWPM	15061	38352	04-01-04	Natalie Mining & Milling Company

A-37

Bk 227
pg. 639

PATENTED CLAIMS

Claim Name Patentee	Property Description	SMC Coordinates N	E	Mineral Survey No.	Patent No.	Patent Date	Patentee
Klondyke No. 3	21,27,28-42N-7W-NMPM			15061	38352	04-01-04	Natalie Mining & Milling Company
Leonard (Und. 2/5)	12-42N-7W-NMPM			18230	46809	05-21-08	California Mountain Mining Co.
Midnight	11-42N-7W-NMPM			5616	19975	03-11-92	N. K. Gavid
Milano	15-22-42N-7W-NMPM			16393	39587	09-16-04	J. M. Kloster and Mary Kloster
Minnie	12-42N-7W-NMPM			17034	41816	06-30-05	Sunlight Mining & Milling Co.
Morning Star (Und. 2/5)	12-42N-7W-NMPM			17034	41816	06-30-05	Sunlight Mining & Milling Co.
Napoleon	22-27-42N-7W-NMPM			15504	38483	04-09-04	Occidental Mining Company
Occidental No. 3	22-27-42N-7W-NMPM			15504	38483	04-09-04	Occidental Mining Company
Oriental	30-42N-7W-NMPM			566	7683	05-31-83	C. E. Schoellkopf
Paymaster	18-42N-7W-NMPM			1301	9489	06-28-84	Lyman R. Blake
Paymaster	15-42N-7W-NMPM			18060	45978	05-11-08	William Steel
Pony (Und. 1/3)	10-42N-7W-NMPM			2336	24758	09-08-94	L. J. Holtzger
Pride of the Alps	9-10-42N-7W-NMPM			572	9383	06-14-04	Alps Mining & Reduction Co.
Red	22,27-42N-7W-NMPM			18849	220154	08-04-11	Amanda L. Cotton
Rock	22,27-42N-7W-NMPM			18849	220154	08-04-11	Amanda L. Cotton
Rose	22,27-42N-7W-NMPM			18849	220154	08-04-11	Amanda L. Cotton
Rosso	22,27-42N-7W-NMPM			18849	220154	08-04-11	Amanda L. Cotton
Rowena O.	15-22-42N-7W-NMPM			16393	39587	09-16-04	J. M. Kloster and Mary Kloster
Smuggler	16-42N-7W-NMPM			1758	16845	04-13-89	Rasmus Hanson
Stars and Stripes (Und. 2/5)	12-42N-7W-NMPM			18233	31367	11-27-08	California Mountain Mining Co.
Stella	21,27,28-42N-7W-NMPM			15061	38352	04-01-04	Natalie Mining & Milling Company
Stranger	27-42N-7W-NMPM			19150	294067	07-15-12	Mary J. Stecker and Joseph R. Tassert
Sumner	21,27,28-42N-7W-NMPM			15061	38352	04-01-04	Natalie Mining & Milling Company
Sun Beam	19-42N-7W-NMPM			1419	11358	01-13-87	Sunbeam & Moonbeam Mining Co.
Treasure	22,27-42N-7W-NMPM			18849	220154	08-04-11	Amanda L. Cotton
Venus (Und. 2/5)	12-42N-7W-NMPM			17034	41816	06-30-05	Sunlight Mining & Milling Co.
Wadleigh (Und. 2/5)	12-42N-7W-NMPM			17034	41816	06-30-05	Sunlight Mining & Milling Co.
Waterloo	15-42N-7W-NMPM			17429	44556	10-06-06	Rasmus Hanson
Yankee Boy	22,27-42N-7W-NMPM			18849	220154	08-04-11	Amanda L. Cotton
AD Beard	23-42N-7W-NMPM			1714	12256	07-12-87	Ouray Discovery & Mining Co.
Glenn	26-42N-7W-NMPM			1715	12262	07-12-87	Ouray Discovery & Mining Co.
Hilderbrand	23-42N-7W-NMPM			1707	13078	05-03-88	Henry Miller
Knickerbocker	24-42N-7W-NMPM			1717	12258	07-12-87	Ouray Discovery & Mining Co.
Underwood	24-42N-7W-NMPM			1719	12260	07-12-87	Ouray Discovery & Mining Co.
Wilhite	26-42N-7W-NMPM			1720	12261	07-12-87	Ouray Discovery & Mining Co.
Duesberg	23-42N-7W-NMPM			1780	11522	02-07-87	Rasmus Hanson
Dover	23-42N-7W-NMPM			1690	14048	04-23-89	W. E. Webb
Noranda/Bennett Lease/Treasure Mountain Claims							
Adirondac	12-42N-7W-NMPM			2582	15641	03-01-90	S. S. Fessenden
Almaden	13-42N-7W-NMPM			1300	24801	09-22-94	A. A. Martin et al.
Castaway	12-42N-7W-NMPM			2582	15641	03-01-90	S. S. Fessenden
Duke of Bull Run	12-42N-7W-NMPM			1130	8983	04-02-84	J. F. Steinbeck

A-36

Bk. 237
Pg. 640

PATENTED CLAIMS

Claim Name Patentee	Property Description	SMC Coordinates N	E	Mineral Survey No.	Patent No.	Patent Date	Patentee
St. Paul	1/13-42N-7W-NMPM			18353A	52106	01-15-09	The Silverqueen Mining & Milling Co.
Salamanca	12-42N-7W-NMPM			2582	15641	01-01-90	S. S. Fensenden
Sound Democrat	13-42N-7W-NMPM			2686	17664	04-20-91	James K. Herring
Norania/Great Divide/Treasury Mountain Claims							
Annie D.				18581	43165		
Beach	19/20/29-42N-6W-NMPM			17954	46376	07-25-06	Thomas Annear
Ben Bolt	18-42N-6W-NMPM			994	7746	05-31-83	Thomas C. Wilson
Big Cliff	19/20/29-42N-6W-NMPM			17954	46376	07-25-06	Thomas Annear
Byron	17-42N-6W-NMPM			419	6473	09-30-82	The Tom Moore Mining Co.
Byron Millsite	17-42N-6W-NMPM			419	6473	09-30-82	The Tom Moore Mining Co.
Canola	12-42N-7W-NMPM			2101	15402	12-10-89	The Great Animas Gold & Silver Mining Co.
Carbonate King	31-42N-6W-NMPM			1175	6745	02-12-84	S. R. Beckwith
Cliff	5-41N-6W-NMPM			17692	68730	06-21-09	The Bullion Bar Mining Co.
Crater	7/18-42N-6W-NMPM			20047	838065	12-10-21	Andrew P. Lofgren
Crescent	7-42N-6W-NMPM			18238	46638	02-27-08	Alfred W. Hall
Daisey	19-42N-6W-NMPM			1693	15297	10-18-89	The Eureka Mining Co.
Dexter	17-42N-6W-NMPM			4860	24051	03-06-94	Silas O. Brigham
Eagle	19/20/29-42N-6W-NMPM			17954	46376	07-25-06	Thomas Annear
Ellen*	36-43N-7W-NMPM			1232			The Great Eastern Gold & Silver Mining Co.
Emma	17-42N-6W-NMPM			1753	11519	02-07-87	James L. Hill
Empire State	20-42N-6W-NMPM			6937	22972	06-06-93	The Empire Mining Co.
Enterprise	7-42N-6W-NMPM			2102	15403	12-10-89	The Great Animas Gold & Silver Mining Co.
Excelsior	12-42N-7W-NMPM			857	23484	10-17-93	C. H. Burt, et al.
Excelsior	20-42N-6W-NMPM			19110	375338	01-06-14	Mary J. Stecker & Joseph R. Stecker, sole heirs at law of William H. Tayent, dec.
Excelsior Ext.	20-42N-6W-NMPM			19110	375338	01-06-14	Mary J. Stecker & Joseph R. Stecker, sole heirs at law of William H. Tayent, dec.
Flora Frederick	20-42N-6W-NMPM			2605	41353	10-26-86	The Kansas, Colorado & San Juan Gold & Silver Mining Co.
Galena No. 1	32-42N(41W?)-6W-NMPM			17366	44931	01-20-08	The Big Five Co.
Galena No. 3	32-42N(41W?)-6W-NMPM			17366	44931	01-20-08	The Big Five Co.
Galena No. 6	5/6-41N-6W-NMPM 32-42N-6W-NMPM			18640	158600	10-20-10	The Big Five Tunnel, Ore Reduction and Transportation Co.
Garibaldi	20-42N-6W-NMPM			659	9651	08-22-84	August Brille
Golconda	6-41 & 42N-6W-NMPM			17703A	45039	10-25-07	Otto Brandel
Gold Brick	20-42N-6W-NMPM			19110	375338	01-06-14	Mary J. Stecker & Joseph R. Stecker, sole heirs at law of William H. Tayent, dec.
Great Eastern	7-42N-6W-NMPM			725	12528	09-24-87	The Great Animas Mining Co.
Great Republic (Und. 2/3)	12-42N-7W-NMPM			970	8251	10-04-83	A. F. McKenzie

* Patent cancelled 12-9-1893

Bk 237
Pg. 641

PATENTED CLAIMS

Claim Name	Property Description	SMC Coordinates N	E	Mineral Survey No.	Patent No.	Patent Date	Patentee
Home Stake	20-42N-6W-NMPM			19110	375338	01-06-14	Mary J. Stecker & Joseph R. Stecker, sole heirs at law of William H. Tagent, dec.
Home Stake Annex	20-42N-6W-NMPM			19110	375338	01-06-14	Mary J. Stecker & Joseph R. Stecker, sole heirs at law of William H. Tagent, dec.
Home Stake Ext.	20-42N-6W-NMPM			19110	375338	01-06-14	Mary J. Stecker & Joseph R. Stecker, sole heirs at law of William H. Tagent, dec.
Index	12-42N-7W-NMPM			18120	46641	04-27-08	James Watson & Leon Lefevre
Iron	17-42N-6W-NMPM			2325	17100	01-21-91	The Ruby Group Mining Co.
I.X.L.	7-42N-6W-NMPM			4879	18023	06-05-91	Leon Lefevre
Jennie R.	12-42N-7W-NMPM			2331	12779	01-19-88	James Reynolds
John H. French Placer	31-42N-6W-NMPM			45	2490	10-04-77	John H. French, et al.
Katie	19-42N-6W-NMPM			746	7481	04-16-83	Edwin T. Rittenhouse
Lee	24-42N-7W-NMPM			1716	12257	07-12-87	The Ouray Discovery and Mining Co.
Little Flossie	17-42N-6W-NMPM			2327	17103	01-21-91	The Ruby Group Mining Co.
Little Giant	29-42N-6W-NMPM			19411	512647	02-10-16	The Cross Mining Co.
Maude S.	20-42N-6W-NMPM			2466	15640	03-01-90	The Shakespeare Mining Co.
Merrimac	17-42N-6W-NMPM			1751	12611	11-05-87	James L. Hill
Morning Star	18-42N-6W-NMPM			18282	46986	07-27-08	Estate of A. M. Yerger, dec.
Mountain Eagle (Und. 1/5)	33-42N-6W-NMPM			15304	149246	08-25-10	C. C. Koernecker, et al.
Mountain King	12-42N-7W-NMPM			2662	15224	09-26-89	C. H. Bent
O. C. Ray	24-42N-7W-NMPM			1713	12255	07-02-87	Ouray Discovery & Mining Co.
Ore Cache	20-42N-7W-NMPM			19110	375338	01-06-14	Heirs of William H. Tagert
Parnell	16-42N-6W-NMPM			15251	41172	02-23-06	John F. Fargo
Paymaster	19/20-42N-6W-NMPM			1694	15296	10-18-89	Eureka Mining Co.
Pontoon	17-42N-6W-NMPM			1752	12431	08-19-87	James L. Hill
Promontory	17-42N-6W-NMPM			4860	24051	03-06-94	Silas O. Brigham
Protection No. 1	19/20/29-42N-6W-NMPM			17954	46376	02-27-08	Thomas Annear
Rarus	17/18-42N-6W-NMPM			995	7615	05-15-83	Thomas C. Wilson
Ruby	17-42N-6W-NMPM			2326	17101	01-21-91	The Ruby Group Mining Co.
Ruby Cross	17-42N-6W-NMPM			2328	17102	01-21-91	The Ruby Group Mining Co.
Russel	2-42N-7W-NMPM			2184	12689	12-03-87	James F. Steinbeck
Silver Chord	7-42N-6W-NMPM			2103	17350	03-04-91	Great Animas Gold & Silver Mining Co.
Silver Crown	18-42N-6W-NMPM			18282	46986	07-27-08	Est. of A. M. Yerger
Silver Key	18-42N-6W-NMPM			18282	46986	07-27-08	Est. of A. M. Yerger
Silver Ring	18-42N-6W-NMPM			18282	46986	07-27-08	Est. of A. M. Yerger
Silver Lion	12-42N-7W-NMPM			322	7031	01-15-83	John Pearson
Silver Wing (Surface only)	17-42N-6W-NMPM			70	2926	07-15-76	Wm. B. Sherman
Sterling	17-42N-6W-NMPM			414	5586	04-15-82	John T. Davis
Sue Amanda	20-42N-6W-NMPM			2605	41153	10-26-967	The Kansas, Colorado and San Juan Gold & Silver Mining Co.
Sunsitt	18-42N-6W-NMPM			18282	46986	07-27-08	Est. of A. M. Yerger
Toltec (Und. 3/5)	18-42N-6W-NMPM			5544	18542	09-18-91	William H. James
Toltec No. 1 (Und. 3/5)	18-42N-6W-NMPM			5544	18542	09-18-91	William H. James
Tom Moore	17-42N-6W-NMPM			94	4226	09-28-80	J. W. Wallace, et al.

A-40

PATENTED CLAIMS

Claim Name	Property Description	SHC Coordinates N	E	Mineral Survey No.	Patent No.	Patent Date	Patentee
Vesta (Cuba)	20/21-42N-6W-NMPM			19127	75340	01-06-14	Heirs of William H. Tagert
Veta Grande	19/20/29-42N-6W-NMPM			17954	46376	02-27-08	Thomas Annear
War Eagle	7/18-42N-6W-NMPM			20074	881281	09-25-22	P. J. McLaughlin
Yellowstone	19/20/29-42N-6W-NMPM			17954	46376	02-27-08	Thomas Annear
Nuranda/Birchwood et al./Treasure Mountain Claims							
Amethyst	7-42N-6W-NMPM			19880	817451	08-05-21	Heirs of Walter G. Garritt
Atlantic	7-42N-6W-NMPM			2149	14305	09-20-88	Treasure Mtn. Mining & Milling Co.
Chicago	7-42N-6W-NMPM			7295	24759	09-08-94	Interocean Mining Co.
Crown Diamond	7-42N-6W-NMPM			18278	77968	09-09-09	A. A. & Genevieve Brown
Double Eagle	7-42N-6W-NMPM			14533	36781	07-05-03	Rasmus Hanson
Eclipse Placer	7-42N-6W-NMPM			1372	23633	11-17-93	Interocean Mining Co.
Gilmore (Mnd. 3/4)	7-42N-6W-NMPM			745	7353	03-25-81	H. G. Cole et al.
Gladstone	7-42N-6W-NMPM			4879	18023	06-05-91	Leon Lefevre
Golden Crown	7/18-42N-6W-NMPM			19092	375326	01-06-14	Laura L. Hanson, S. C. Usher
Golden Fleece	7-42N-6W-NMPM			15562	39466	08-06-04	San Juan Fleece Gold Mining Co.
Golden Fleece Ext.	12-42N-7W-NMPM			14579	36684	06-03-03	Rasmus Hanson
Golden Lion	12-42N-7W-NMPM			16999	41839	04-03-05	Lion Gold Mining & Milling Co.
Golden Tiger	7-42N-6W-NMPM			17003	41849	04-03-05	Lion Gold Mining & Milling Co.
Golden Tiger No. 2	7-42N-6W-NMPM			17003	41849	04-03-05	Lion Gold Mining & Milling Co.
Great Republic (Mnd. 1/3)	12-42N-7W-NMPM			970	8251	10-04-83	B. F. McKenzie
Justice	7-42N-6W-NMPM			2147	14303	09-20-88	Treasure Mtn. Mining & Milling Co.
Kennedy	7-42N-6W-NMPM			5417	18239	06-24-91	Leon Lefevre
Montenotte	7-42N-6W-NMPM 12-42N-7W-NMPM			14578	36732	06-15-03	Rasmus Hanson
Neglected	7-42N-6W-NMPM			18372	77969	09-09-09	A. A. & Genevieve Brown
Pacific	7-42N-6W-NMPM			2148	14304	09-20-88	Treasure Mtn. Mining & Milling Co.
Pacific Ext.	7-42N-6W-NMPM			2150	14306	09-20-88	Treasure Mtn. Mining & Milling Co.
Pittsburg	7-42N-6W-NMPM			17931	71060	07-08-09	A. A. & Genevieve Brown
Rock Island	7-42N-6W-NMPM			5045	19103	12-18-91	Joseph A. Sleeper, Wm. Saue
Sandiago	7-42N-6W-NMPM			19084	375325	01-06-14	Laura L. Hanson
San Juan Queen	7-42N-6W-NMPM			14201	34410	10-03-01	Henry Sherman & J. T. Whitelaw
Scotia	7-42N-6W-NMPM			291	5262	01-31-82	Alexander, et al.
Scotia Ext. No. 1	7-42N-6W-NMPM			18281	71059	07-08-09	A. A. & Genevieve Brown
Vanderbilt	7-42N-6W-NMPM			18275	46978	07-16-08	Rasmus Hanson
Estacka	7-42N-6W-NMPM			2146	14302	09-20-88	Treasure Mtn. Mining & Milling Co.
Trust	7/18-42N-6W-NMPM			19092	375326	01-06-14	Laura L. Hanson & S. C. Usher

BK 237
PG. 643

PATENTED CLAIMS

Claim Name	Property Description	SMC Coordinates N	R	Mineral Survey No.	Patent No.	Patent Date	Patentee
Noranda/Bennett Lease/California Mountain Claims							
Black Diamond	11-42N-7W-NMPM			16069	30784	05-16-04	Caroline T. Lincoln
Campbird	11/14-42N-7W-NMPM			19095	244234	01-22-12	William Palmquist
Comstock	12-42N-7W-NMPM			6261	19256	01-08-92	Rasmus Hanson
Florence	9/10-42N-6W-NMPM			2255	12691	12-03-87	J. Alton Claim, E. C. Davis, et al.
Gold Queen	12-42N-7W-NMPM			15605	38492	04-09-04	N. C. Merrill & Rasmus Hanson
Ida B.	1 through 13-42N-7W-NMPM			18352A	52103	03-15-09	The Silver Queen Mining & Milling Co. Millsite included in legal but cancelled 2/20/09
Independence	13-42N-7W-NMPM			17724	45095	10-31-07	William R. Winters
La Vergne	13-42N-7W-NMPM			17995	46646	06-15-08	J. H. Fessenden
Leslie D.	1 through 13-42N-7W-NMPM			18350A	52104	03-15-09	The Silver Queen Mining & Milling Co. Millsite included in legal but cancelled 2/20/09
Maud B.	1 through 13-42N-7W-NMPM			18351A	52105	03-15-09	The Silver Queen Mining & Milling Co. Millsite included in legal but cancelled 2/20/09
Pick Up	13-42N-7W-NMPM			17995	46646	06-15-08	J. H. Fessenden
Pine Bluff Millsite	12/13-42N-7W-NMPM			20134			J. B. Ezell (NOT PATENTED)
Rocine Boy	14-42N-7W-NMPM			7677	24216	04-18-94	The Animas Forks Mining & Milling Co.
Silver Queen	13-42N-7W-NMPM			1303	23292	08-01-93	A. A. Martin, et al.
Noranda/Great Divide Lease/California Mountain Claims							
Acharson	24-42N-7W-NMPM			1718	12259	07-12-87	The Ouray Discovery & Mining Co.
Barhoff	20-42N-6W-NMPM			19738	809589	06-10-21	Samuel G. Martin
Cassa	19-42N-6W-NMPM			6715	20179	01-17-92	Mary Scheidt
Canon	20-42N-6W-NMPM			1262	9661	08-22-84	D. F. Watson
Frances	29-42N-6W-NMPM			19411	512647	02-10-16	The Crown Mining Co.
Hard Cash	19/20-42N-6W-NMPM			1241	9387	06-14-84	The Holline Silver Mining Co.
Jo Shipley	20-42N-6W-NMPM			19106	296235	09-30-12	J. S. Watson
Kate Gibson	13-42N-7W-NMPM			1757	11602	02-25-87	J. E. Hall, et al.
La Plata Grande	20-42N-6W-NMPM			1263	9802	10-15-84	D. F. Watson
Lotah	19/20/29-42N-6W-NMPM			17954	46376	02-27-08	Thomas Annear
Niagara	19/20-42N-6W-NMPM			2111	15685	03-13-90	Detroit & Eureka Gold & Silver Mining Co.
North Pole	24-42N-7W-NMPM			1393	9315	06-02-84	Maurice J. Condon, et al.
Pavilion	20-42N-6W-NMPM			1601	10326	01-30-86	D. F. Watson
Protection	19/20/29-42N-6W-NMPM			17954	46376	02-27-08	Thomas Annear
Silver Comet	19/20-42N-6W-NMPM			2134	15686	03-13-90	Detroit & Eureka Gold & Silver Mining Co.
Shakespeare	20-42N-6W-NMPM			2465	15582	02-15-90	The Shakespeare Mining Co.
Specie	20-42N-6W-NMPM			1602	10327	01-30-86	D. F. Watson

Bk. 237
pg. 644

PATENTED CLAIMS

Claim Name	Property Description	SMC Coordinates N	E	Mineral Survey No.	Patent No.	Patent Date	Patentee
Mining Lease dated November 4, 1980 between Joy Manufacturing Company, lessor, and Standard Metals Corporation, lessee							
Independence	14/15-42N-7W-MMPM			18733	263365	05-01-12	Joe T. Terry
Portland	14/15-42N-7W-MMPM			18733	263365	05-01-12	Joe T. Terry
L.C.M. Mill Site	21-42N-7W-MMPM			20726	1133333	03-06-51	Lead Carbonate Mines, Inc.
Sarah	22-42N-7W-MMPM			5502	20774	04-23-92	Al Schumacher, et al.
Garfield	22-42N-7W-MMPM			5502	20774	04-23-92	Al Schumacher, et al.
Standard (Part)	15-42N-7W-MMPM			14704	37743	01-07-04	The Gold King Consolidated Mines Co.
Lafayette M.S.	21-42N-7W-MMPM			156818	39805	10-31-04	Mary and J. N. Kloster
Gold Cup M.S.	21-42N-7W-MMPM			156848	39806	10-31-04	Mary and J. N. Kloster
Yale M.S.	21/28-42N-7W-MMPM			162768	39185	06-30-04	C. W. Bloodgood
Rouena No. 6	22-42N-7W-MMPM			16649	42069	05-01-05	Mary and John N. Kloster
Rouena No. 7	22-42N-7W-MMPM			16649	42069	05-01-05	Mary and John N. Kloster
Rouena No. 8	22-42N-7W-MMPM			16649	42069	05-01-05	Mary and John N. Kloster
Lead Carbonate	22-42N-7W-MMPM			16795	40581	03-01-05	Freeland Jones and Alfred M. Ball
B. G. Fraction	22-42N-7W-MMPM			16795	40581	03-01-05	Freeland Jones and Alfred M. Ball
Cecilia	22-42N-7W-MMPM			16795	40581	03-01-05	Freeland Jones and Alfred M. Ball
Cecilia No. 2	22-42N-7W-MMPM			16795	40581	03-01-05	Freeland Jones and Alfred M. Ball
Dean B.	22-42N-7W-MMPM			16795	40581	03-01-05	Freeland Jones and Alfred M. Ball
Mocking Bird	22-42N-7W-MMPM			16795	40581	03-01-05	Freeland Jones and Alfred M. Ball
Yuba Bill	22-42N-7W-MMPM			16795	40581	03-01-05	Freeland Jones and Alfred M. Ball
Youkon	22-42N-7W-MMPM			16795	40581	03-01-05	Freeland Jones and Alfred M. Ball

A-43

Claims acquired by Sunnyside Gold Corporation and subsequently transferred to Washington Mining Company and made subject to the U. S. Smelting Refining and Mining Company/Marcy-Shenandoah Corporation lease of February 28, 1959:

Claim Name	Mineral Survey Number
Tip Top	18108
Tip Top No. 2	19474
Tip Top No. 3	19474
Climax No. 3	19474
Silver Globe	1196
Silver Globe No. 2	1197
Romantic	864
Honeck	16200

Bk 237
Pg 645

PART III

Bk 237
Pg 646

SURVEY NUMBER	CLAIM NAME	OWNER	LEASE	MINING DISTRICT	TYPE
465	Black Heath	Brenneman et. al.	Brenneman	Eureka	L
18836	Buck Run	Brenneman et. al.	Brenneman	Eureka	L
484	Emma	Brenneman et. al.	Brenneman	Eureka	L
18836	Kohinoor	Brenneman et. al.	Brenneman	Eureka	L
→ 469	M.E. Harrison (East 930')	Brenneman et. al.	Brenneman	Eureka	L
2623	Mackey Boy	Brenneman et. al.	Bren.-Mackey Boy (Pending)	Eureka	L
18836	Monarch	Brenneman et. al.	Brenneman	Eureka	L
20407	"S" M.S.	Sunnyside Gold Corp.	None	Animas	L
11596	Ann Harris Pl.	Sunnyside Gold Corp.	None	Animas	L
20564	B.S.G.	Sunnyside Gold Corp.	None	Animas	L
11596	Bend Pl.	Sunnyside Gold Corp.	None	Animas	L
16469	Blair Mountain Pl.	Sunnyside Gold Corp.	None	Animas	L
841	Blair Pl. (Part)	Sunnyside Gold Corp.	None	Animas	L
18281	Bonny Belle	Sunnyside Gold Corp.	None	Eureka	L
1392	Broadguage	Sunnyside Gold Corp.	None	Eureka	L
14012	Buena Vista	Sunnyside Gold Corp.	None	Animas	L
20564	C.A.C.	Sunnyside Gold Corp.	None	Animas	L
29594	C.H.M.S.	Sunnyside Gold Corp.	None	Animas	L
17891	Callaway	Sunnyside Gold Corp.	None	Eureka	L
17891	Camden	Sunnyside Gold Corp.	None	Eureka	L
17891	Cannon	Sunnyside Gold Corp.	None	Eureka	L
20059	Dives Fraction	Sunnyside Gold Corp.	None	Animas	L
17891	Dr. Tracy	Sunnyside Gold Corp.	None	Eureka	L
18207	Duquesne	Sunnyside Gold Corp.	None	Eureka	L
20595	E.C.W.M.S.	Sunnyside Gold Corp.	None	Animas	L
8801	Esther Allen (Tract S)	Sunnyside Gold Corp.	None	Animas	L
20564	G.H.M.	Sunnyside Gold Corp.	None	Animas	L
14012	Gold	Sunnyside Gold Corp.	None	Animas	L
14393	Gold Bug	Sunnyside Gold Corp.	None	Animas	L
14393	Gold Bug M.S.	Sunnyside Gold Corp.	None	Animas	L
17549	Gorilla	Sunnyside Gold Corp.	None	Eureka	L
20595	H.M.M.S.	Sunnyside Gold Corp.	None	Animas	L
29594	H.V.B.M.S.	Sunnyside Gold Corp.	None	Animas	L

Bk 237
pg 647

SURVEY NUMBER	CLAIM NAME	OWNER	LEASE	MINING DISTRICT	TYPE
13562	Herbert Pl.	Sunnyside Gold Corp.	None	Eureka	L
15351	Huntington	Sunnyside Gold Corp.	None	Animas	L
20564	J.R.W.	Sunnyside Gold Corp.	None	Animas	L
11596	Jeannette Roux Pl.	Sunnyside Gold Corp.	None	Animas	L
17788	Kuroki	Sunnyside Gold Corp.	None	Animas	L
2351	Little Chief	Sunnyside Gold Corp.	None	Uncomp.	L
749	Little Eddie	Sunnyside Gold Corp.	None	Eureka	L
17891	Long	Sunnyside Gold Corp.	None	Eureka	L
20595	M.B.M.S.	Sunnyside Gold Corp.	None	Animas	L
17699	M.D. Thatcher Pl.	Sunnyside Gold Corp.	None	Animas	L
1568	Mayflower	Sunnyside Gold Corp.	None	Animas	L
16551	Mayflower No. 2	Sunnyside Gold Corp.	None	Animas	L
240	McIntyre	Sunnyside Gold Corp.	None	Eureka	L
1157	Mountain Quail	Sunnyside Gold Corp.	None	Animas	L
20595	N.N.M.S.	Sunnyside Gold Corp.	None	Animas	L
8497	Nevada Extension	Sunnyside Gold Corp.	None	Animas	L
297	North Star	Sunnyside Gold Corp.	None	Animas	L
11596	Peter Pl.	Sunnyside Gold Corp.	None	Animas	L
7608	Polar Star M.S.	Sunnyside Gold Corp.	None	Animas	L
13330	Portland Consolidated	Sunnyside Gold Corp.	None	Eureka	L
182	Queen Mary	Sunnyside Gold Corp.	None	Eureka	L
1215	Queen of the West	Sunnyside Gold Corp.	None	Eureka	L
8801	Riverside	Sunnyside Gold Corp.	None	Animas	L
16930	Sewell	Sunnyside Gold Corp.	None	Eureka	L
1857	Silverking	Sunnyside Gold Corp.	None	Animas	L
1331	Slide	Sunnyside Gold Corp.	None	Animas	L
20595	T.H.M.M.S.	Sunnyside Gold Corp.	None	Animas	L
272	Terrible	Sunnyside Gold Corp.	None	Animas	L
17788	Togo	Sunnyside Gold Corp.	None	Animas	L
115	Vermillion	Sunnyside Gold Corp.	None	Eureka	L
118	Yankton	Sunnyside Gold Corp.	None	Eureka	L

Bk 237
pg 648

SURVEY NUMBER	CLAIM NAME	OWNER	LEASE	MINING DISTRICT	TYPE
111	Yankton Extension	Sunnyside Gold Corp.	None	Eureka	L
311	Yellow Jacket	Sunnyside Gold Corp.	None	Animas	L
2021	Belle Creole	Thatcher, Et. Al.	Belle Creole	Eureka	L
17812	Oracle	Thatcher, Et. Al.	Belle Creole	Eureka	L
2020	Grand Duke	Thatcher, Et. Al.	Belle Creole	Eureka	L
1714	A D Searl	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
15504	Alexander	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
1703	Alma	Washington Mining Co.	Washington-Original	Eureka	L
18849	Ama	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
18020	Anaconda	Washington Mining Co.	Washington-Original	Eureka	L
1396	Bavarian	Washington Mining Co.	Washington-Original	Eureka	L
1709	Beaubrec	Washington Mining Co.	Washington-Original	Eureka	L
1291	Ben Butler	Washington Mining Co.	Washington-Original	Eureka	L
1400	Blucher	Washington Mining Co.	Washington-Original	Eureka	L
18849	Blue Heel	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
8400	Briggs	Washington Mining Co.	Washington-Original	Eureka	L
18020	Butte City	Washington Mining Co.	Washington-Original	Eureka	L
15061	Camp Bird	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
442	Cashier	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
134	Cashier (9/10)	Washington Mining Co.	Washington-Original	Eureka	L
16635	Centennial	Washington Mining Co.	Washington-Original	Eureka	L
1706	Charlton	Washington Mining Co.	Washington-Original	Eureka	L
12723	Climax	Washington Mining Co.	Washington-Original	Eureka	L
1689	Clipper	Washington Mining Co.	Washington-Original	Eureka	L
19150	Croesus	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
20003	Crown Jewel	Washington Mining Co.	Washington-Original	Eureka	L
1244	Currency	Washington Mining Co.	Washington-Original	Eureka	L
112	Dakota & San Juan Placer	Washington Mining Co.	Washington-Original	Eureka	L
1780	Daneberg	Washington Mining Co.	Washington 4/21/77	Eureka	L
1403	Denver	Washington Mining Co.	Washington-Original	Eureka	L
16851	Detroit	Washington Mining Co.	Washington-Original	Eureka	L

B6 237
PG 649

SURVEY NUMBER	CLAIM NAME	OWNER	LEASE	MINING DISTRICT	TYPE
2093	Doctor	Washington Mining Co.	Washington-Original	Eureka	L
2093	Doctor M.S.	Washington Mining Co.	Washington-Original	Eureka	L
15061	Dorothy	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
1690	Dower	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
19150	Easy Street	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
16997	Eighty Nine	Washington Mining Co.	Washington-Original	Eureka	L
2273	Emma	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
17538	Emma No. 1	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
17538	Emma No. 2	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
16165	Esmaralda	Washington Mining Co.	Washington-Original	Eureka	L
13189	Estey	Washington Mining Co.	Washington-Original	Eureka	L
420	Eureka Lode M.S.	Washington Mining Co.	Washington-Original	Eureka	L
16977	Eureka Power M.S.	Washington Mining Co.	Washington-Original	Eureka	L
4801	Family	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
17011	Fearless	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
19150	Fiction	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
1245	First National	Washington Mining Co.	Washington-Original	Eureka	L
16724	Forks of Eureka M.S.	Washington Mining Co.	Washington-Original	Eureka	L
2028	George Washington	Washington Mining Co.	Washington-Original	Eureka	L
1715	Glenn	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
16393	Gold Peak	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
20003	Gold Prince	Washington Mining Co.	Washington-Original	Eureka	L
2573	Grand	Washington Mining Co.	Washington-Original	Eureka	L
1701	Grand Prize	Washington Mining Co.	Washington-Original	Eureka	L
17202	Grand View	Washington Mining Co.	Washington-Original	Eureka	L
1691	Great Eastern	Washington Mining Co.	Washington-Original	Eureka	L
1397	Herman	Washington Mining Co.	Washington-Original	Eureka	L
5010	Hidden Treasure	Washington Mining Co.	Washington-Original	Eureka	L
20003	Hidden Treasure Extension	Washington Mining Co.	Washington-Original	Eureka	L
1707	Hilderbrand	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
5782	Hoffman	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L

Bk 237
Pg. 650

SURVEY NUMBER	CLAIM NAME	OWNER	LEASE	MINING DISTRICT	TYPE
17403	Independent	Washington Mining Co.	Washington-Original	Eureka	L
13247	Iron Chancellor	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
18849	Joe	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
17034	Jupiter (2/3)	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
15061	Klondyke	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
15061	Klondyke No. 3	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
1717	Knickerbocker	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
2027	Lake	Washington Mining Co.	Washington-Original	Eureka	L
17901	Last Chance	Washington Mining Co.	Washington-Original	Eureka	L
18230	Leonori (2/3)	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
2038	Little Mary	Washington Mining Co.	Washington-Original	Eureka	L
1702	Lizzie Morris	Washington Mining Co.	Washington-Original	Eureka	L
837	Lulu Carroll	Washington Mining Co.	Washington-Original	Eureka	L
2678	Lyman Strong	Washington Mining Co.	Washington-Original	Eureka	L
216	Mastodon	Washington Mining Co.	Washington-Original	Eureka	L
1398	Metropolis	Washington Mining Co.	Washington-Original	Eureka	L
5616	Midnight	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
16393	Milano	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
17034	Minnie (2/3)	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
17034	Morning Star 2/3)	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
17234	Mother Goose	Washington Mining Co.	Washington-Original	Eureka	L
173	Moultrie	Washington Mining Co.	Washington-Original	Eureka	L
17432	Mountain Sheep	Washington Mining Co.	Washington-Original	Eureka	L
1394	Muskegon	Washington Mining Co.	Washington-Original	Eureka	L
5954	Nantucket (5/12)	Washington Mining Co.	Washington-Original	Eureka	L
17431	Napoleon	Washington Mining Co.	Washington-Original	Eureka	L
15504	Napoleon	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
2508	Nasty	Washington Mining Co.	Washington-Original	Eureka	L
8399	New York	Washington Mining Co.	Washington-Original	Eureka	L
2272	No Name	Washington Mining Co.	Washington-Original	Eureka	L
15504	Occidental No. 3	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L

Bk 237
pg 651

SURVEY NUMBER	CLAIM NAME	OWNER	LEASE	MINING DISTRICT	TYPE
17233	Oregon	Washington Mining Co.	Washington-Original	Eureka	L
566	Oriental	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
18732	Palos	Washington Mining Co.	Washington-Original	Eureka	L
18732	Palos No. 1	Washington Mining Co.	Washington-Original	Eureka	L
18732	Palos No. 2	Washington Mining Co.	Washington-Original	Eureka	L
1301	Paymaster	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
18080	Paymaster	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
5975	Pearl	Washington Mining Co.	Washington-Original	Eureka	L
2336	Pony (1/3)	Washington Mining Co.	Washington-Original	Eureka	L
2336	Pony (1/3)	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
572	Pride of the Alps	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
7628	Pride of the Rockies	Washington Mining Co.	Washington-Original	Eureka	L
20003	Protection	Washington Mining Co.	Washington-Original	Eureka	L
20003	Quail	Washington Mining Co.	Washington-Original	Eureka	L
1401	Parus	Washington Mining Co.	Washington-Original	Eureka	L
18020	Raymond	Washington Mining Co.	Washington-Original	Eureka	L
18849	Red	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
12724	Republic	Washington Mining Co.	Washington-Original	Eureka	L
16724	Rochus	Washington Mining Co.	Washington-Original	Eureka	L
18849	Rock	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
18849	Rosa	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
18849	Rosso	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
16393	Rouen D.	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
151	Roving Ranger	Washington Mining Co.	Washington-Original	Eureka	L
151	Roving Ranger M.S.	Washington Mining Co.	Washington-Original	Eureka	L
18020	Ruby	Washington Mining Co.	Washington-Original	Eureka	L
16804	Senator	Washington Mining Co.	Washington-Original	Eureka	L
17201	Shoshone	Washington Mining Co.	Washington-Original	Eureka	L
18020	Silver Bow	Washington Mining Co.	Washington-Original	Eureka	L
1758	Smuggler	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
16977	Somerset	Washington Mining Co.	Washington-Original	Eureka	L

Bk. 237
pg. 652

SURVEY NUMBER	CLAIM NAME	OWNER	LEASE	MINING DISTRICT	TYPE
18233	Stars and Stripes (2/3)	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
15061	Stella	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
19150	Stranger	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
15061	Sumner	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
1419	Sunbeam	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
438	Sunnyside	Washington Mining Co.	Washington-Original	Eureka	L
16668	Sunnyside Annex	Washington Mining Co.	Washington-Original	Eureka	L
1180	Sunnyside Extension	Washington Mining Co.	Washington-Original	Eureka	L
20003	Sunnyside No. 2	Washington Mining Co.	Washington-Original	Eureka	L
2338	Taggart (1/3)	Washington Mining Co.	Washington-Original	Eureka	L
16804	Tagner	Washington Mining Co.	Washington-Original	Eureka	L
17986	Terry	Washington Mining Co.	Washington-Original	Eureka	L
1395	Thunderberg	Washington Mining Co.	Washington-Original	Eureka	L
16724	Timber	Washington Mining Co.	Washington-Original	Eureka	L
18849	Treasure	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
1719	Underwood	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
17034	Venus (2/3)	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
1858	Viper	Washington Mining Co.	Washington-Original	Eureka	L
17034	Wadleigh (2/3)	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
17429	Waterloo	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
18160	Wedge	Washington Mining Co.	Washington-Original	Eureka	L
16997	Wellington	Washington Mining Co.	Washington-Original	Eureka	L
14368	White Star	Washington Mining Co.	Washington-Original	Eureka	L
1720	Wilhite	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
18849	Yankee Boy	Washington Mining Co.	Washington 4/21/77 Amended	Eureka	L
864	Romantic	Washington Mining Co.	Washington 4/15/78	Eureka	L
1196	Silver Globe	Washington Mining Co.	Washington 4/15/78	Eureka	L
1197	Silver Globe No.2	Washington Mining Co.	Washington 4/15/78	Eureka	L
18108	Tip Top	Washington Mining Co.	Washington 4/15/78	Eureka	L
19474	Tip Top No. 2	Washington Mining Co.	Washington 4/15/78	Eureka	L
19474	Tip Top No. 3	Washington Mining Co.	Washington 4/15/78	Eureka	L
19474	Climax No. 3	Washington Mining Co.	Washington 4/15/78	Eureka	L
16200	Honeck	Washington Mining Co.	Washington 1978	Eureka	L

Bk. 237
pg. 655

SURVEY NUMBER	CLAIM NAME	OWNER	LEASE	MINING DISTRICT	TYPE
	McCarty No. 58	Sunnyside Gold Corp.	None	Animas	L
	McCarty No. 59	Sunnyside Gold Corp.	None	Animas	L
	Apollo 10	Sunnyside Gold Corp.	None	Animas	L
	Argentine Extension	Sunnyside Gold Corp.	None	Animas	L
	Belinda	Sunnyside Gold Corp.	None	Animas	L
	Betsy	Sunnyside Gold Corp.	None	Animas	L
	Big Mac	Sunnyside Gold Corp.	None	Animas	L
	Buckhorn	Sunnyside Gold Corp.	None	Animas	L
	Cortina	Sunnyside Gold Corp.	None	Animas	L
	Ezra R. Extension	Sunnyside Gold Corp.	None	Animas	L
	Fabie	Sunnyside Gold Corp.	None	Animas	L
	Gretchen	Sunnyside Gold Corp.	None	Animas	L
	Jay Bird	Sunnyside Gold Corp.	None	Animas	L
	John B	Sunnyside Gold Corp.	None	Animas	L
	Midnight	Sunnyside Gold Corp.	None	Animas	L
	Ming	Sunnyside Gold Corp.	None	Animas	L
	Molly B	Sunnyside Gold Corp.	None	Animas	L
	Minon	Sunnyside Gold Corp.	None	Animas	L
	Peggy	Sunnyside Gold Corp.	None	Animas	L
	Sue	Sunnyside Gold Corp.	None	Animas	L
	Whitehawk	Sunnyside Gold Corp.	None	Animas	L
	Bridge	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	M
	Gladstone	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	M
	Mastadon	Washington Mining Co.	Washington-Original	Eureka	M
	Bob No. 1	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 10	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 13	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 14	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 16	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 19	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 2	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L

Bk 237
Pg. 654

SURVEY NUMBER	CLAIM NAME	OWNER	LEASE	MINING DISTRICT	TYPE
	Bob No. 32	Sunnyside Gold Corp.	None	Eureka	L
	Bob No. 33	Sunnyside Gold Corp.	None	Eureka	L
	Bob No. 34	Sunnyside Gold Corp.	None	Eureka	L
	Bob No. 35	Sunnyside Gold Corp.	None	Eureka	L
	Bob No. 38	Sunnyside Gold Corp.	None	Eureka	L
	Bryce	Sunnyside Gold Corp.	None	Eureka	L
	Echo	Sunnyside Gold Corp.	None	Eureka	L
	Jarvis	Sunnyside Gold Corp.	None	Eureka	L
	Jessica	Sunnyside Gold Corp.	None	Eureka	L
	John and Mary	Sunnyside Gold Corp.	None	Eureka	L
	La Bolsa	Sunnyside Gold Corp.	None	Eureka	L
	McCarty No. 10	Sunnyside Gold Corp.	None	Eureka	L
	McCarty No. 11	Sunnyside Gold Corp.	None	Eureka	L
	McCarty No. 16	Sunnyside Gold Corp.	None	Eureka	L
	McCarty No. 17	Sunnyside Gold Corp.	None	Eureka	L
	McCarty No. 8	Sunnyside Gold Corp.	None	Eureka	L
	McCarty No. 9	Sunnyside Gold Corp.	None	Eureka	L
	Midas	Sunnyside Gold Corp.	None	Eureka	L
	Occidental	Sunnyside Gold Corp.	None	Eureka	L
	Oriental	Sunnyside Gold Corp.	None	Eureka	L
	Parrado	Sunnyside Gold Corp.	None	Eureka	L
	Paymaster Extension	Sunnyside Gold Corp.	None	Eureka	L
	Tiros	Sunnyside Gold Corp.	None	Eureka	L
	Zzyzzx	Sunnyside Gold Corp.	None	Eureka	L
	Bob No. 20	Sunnyside Gold Corp.	None	Animas	L
	Bob No. 23	Sunnyside Gold Corp.	None	Animas	L
	Bob No. 26	Sunnyside Gold Corp.	None	Animas	L
	Bob No. 28	Sunnyside Gold Corp.	None	Animas	L
	McCarty No. 18	Sunnyside Gold Corp.	None	Animas	L
	McCarty No. 19	Sunnyside Gold Corp.	None	Animas	L
	McCarty No. 20	Sunnyside Gold Corp.	None	Animas	L

Bk. 237
Pg. 655

SURVEY NUMBER	CLAIM NAME	OWNER	LEASE	MINING DISTRICT	TYPE
	McCarty No. 58	Sunnyside Gold Corp.	None	Animas	L
	McCarty No. 59	Sunnyside Gold Corp.	None	Animas	L
	Apollo 10	Sunnyside Gold Corp.	None	Animas	L
	Argentine Extension	Sunnyside Gold Corp.	None	Animas	L
	Belinda	Sunnyside Gold Corp.	None	Animas	L
	Betsy	Sunnyside Gold Corp.	None	Animas	L
	Big Mac	Sunnyside Gold Corp.	None	Animas	L
	Buckhorn	Sunnyside Gold Corp.	None	Animas	L
	Cortina	Sunnyside Gold Corp.	None	Animas	L
	Ezra R. Extension	Sunnyside Gold Corp.	None	Animas	L
	Fabie	Sunnyside Gold Corp.	None	Animas	L
	Gretchen	Sunnyside Gold Corp.	None	Animas	L
	Jay Bird	Sunnyside Gold Corp.	None	Animas	L
	John B	Sunnyside Gold Corp.	None	Animas	L
	Midnight	Sunnyside Gold Corp.	None	Animas	L
	Ming	Sunnyside Gold Corp.	None	Animas	L
	Molly B	Sunnyside Gold Corp.	None	Animas	L
	Minon	Sunnyside Gold Corp.	None	Animas	L
	Peggy	Sunnyside Gold Corp.	None	Animas	L
	Sue	Sunnyside Gold Corp.	None	Animas	L
	Whitehawk	Sunnyside Gold Corp.	None	Animas	L
	Bridge	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	M
	Gladstone	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	M
	Mastadon	Washington Mining Co.	Washington-Original	Eureka	M
	Bob No. 1	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 10	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 13	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 14	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 16	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 19	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 2	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L

Bk. 237
Pg. 656

SURVEY NUMBER	CLAIM NAME	OWNER	LEASE	MINING DISTRICT	TYPE
	Bob No. 22	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 3	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 36	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 37	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 4	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 40	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 5	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 6	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 7	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 8	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Bob No. 9	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 21	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 22	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 23	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 24	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 25	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 26	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 27	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 28	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 29	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 30	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 31	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 32	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 33	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 34	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 35	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 36	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 37	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 38	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 39	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 44	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L

Bk 237
Pg 657

SURVEY NUMBER	CLAIM NAME	OWNER	LEASE	MINING DISTRICT	TYPE
	McCarty No. 45	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 47	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 48	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 49	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 50	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 51	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 52	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 53	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 54	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 55	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 56	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	McCarty No. 57	Washington Mining Co.	Washington 2/20/85 Amendment	Animas	L
	Algorta	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	American Tunnel No. 1	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Barberian	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Big John	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Bob No. 11	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Bob No. 12	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Bob No. 15	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Bob No. 17	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Bob No. 18	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Bob No. 25	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Bob No. 39	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Bob No. 41	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Bonita	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Bonita Ridge	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Boston	Washington Mining Co.	Washington-Original	Eureka	L
	Boulder	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Boundary	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Buck	Washington Mining Co.	Washington-Original	Eureka	L
	Centennial	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L

Bk. 237
Pg 658

SURVEY NUMBER	CLAIM NAME	OWNER	LEASE	MINING DISTRICT	TYPE
	Connie	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Delta	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Diamond Jim	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Doe	Washington Mining Co.	Washington-Original	Eureka	L
	Dubbe	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	E. Pluribus Extension	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Easy Money	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Fairchild	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Full House	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Full House Annex	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Gamma	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Goat	Washington Mining Co.	Washington-Original	Eureka	L
	Goat Annex	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Goat Extension	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Harold	Washington Mining Co.	Washington-Original	Eureka	L
	Hi Ho Silver	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Joker	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Joli	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Keystone	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Kid	Washington Mining Co.	Washington-Original	Eureka	L
	Knob	Washington Mining Co.	Washington-Original	Eureka	L
	Lac Char	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Lac Char Annex	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	McCarty	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	McCarty No. 2	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	McCarty No. 3	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	McCarty No. 4	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	McCarty No. 40	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	McCarty No. 41	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	McCarty No. 42	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	McCarty No. 43	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L

Bk 237
Pg. 659

SURVEY NUMBER	CLAIM NAME	OWNER	LEASE	MINING DISTRICT	TYPE
	McCarty No. 46	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	McCarty No. 5	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	McCarty No. 6	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	McCarty No. 7	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Midway	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Midway No. 10	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Midway No. 31	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Midway No. 7	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Midway No. 8	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Midway No. 9	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Moultrie No. 2	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Moultrie No. 3	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Northern Pacific	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Oklahoma King	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Omega	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Orcus	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Pronto	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Protected	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Silver Extension	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-1	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-11	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-12	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-13	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-14	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-15	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-16	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-17	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-19	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-20	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-23	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-26	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L

Bk 237
pg. 660

SURVEY NUMBER	CLAIM NAME	OWNER	LEASE	MINING DISTRICT	TYPE
	SM-28	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-31	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-4	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-48	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-5	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-54	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-57	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-58	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-6	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-60	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-65	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-69	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-7	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	SM-70	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Somerset Extension	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	St. Joe	Washington Mining Co.	Washington-Original	Eureka	L
	Standard	Washington Mining Co.	Washington-Original	Eureka	L
	Walvoord	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	Wolfgang	Washington Mining Co.	Washington 2/20/85 Amendment	Eureka	L
	South Fork No. 1	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 2	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 3	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 4	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 5	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 6	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 7	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 8	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 9	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 10	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 11	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 12	San Juan County Mining Venture	None	Eureka	L

Bk. 237
Pg. 662

BLOCK NUMBER	LOT NUMBERS	NO. LOTS
1	7-8-9-10-11-12-13-14-15-16-17-18	12
2	11-12-14-23-24	5
3	7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26	20
4	7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26	20
5	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
6	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-28-29-30-31-32	27
7	1-8-9-10-11-13-14-24-31	9
8	17-22-26-27-28-29-31	7
9	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-21-24-25-26-27-30-31-32	27
10	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-17-18-19-20-21-22-23-27-28-29-31	25
11	2-3-5-6-7-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30	26
12	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20	20
13	1-2-3-4-5-6	6
14	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
15	1-2-3-4-5-6-7-15-17-18-19-26-27-28-29-30-31-32	18
16	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
17	1-2-3-4-7-8-11-12-21-22-23-27-29-30-31-32	16
18	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
19	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
20	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
21	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
22	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32

-8-

Bk. 237
pg. 665

BLOCK NUMBER	LOT NUMBERS	NO. LOTS
58	1-2-3-4-5-6-7-8-9-10-11-22-23-24-25-26-27-28-29-30-31-32	22
59	28-29-30	3
	TOTAL	1,431

Bk. 237
pg. 661

SURVEY NUMBER	CLAIM NAME	OWNER	LEASE	MINING DISTRICT	TYPE
	South Fork No. 13	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 14	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 15	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 16	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 17	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 18	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 19	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 20	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 21	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 22	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 23	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 24	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 25	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 26	San Juan County Mining Venture	None	Eureka	L
	South Fork No. 27	San Juan County Mining Venture	None	Eureka	L

BK 237
Pg. 663

BLOCK NUMBER	LOT NUMBERS	NO. LOTS
23	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
24	5-6-15-16-21-22-25-27-31	9
25	29-30	2
26	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
27	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
28	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
29	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
30	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
31	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
32	19-20-21-22-27-28	6
33	12-13-14	3
34	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
35	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
36	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
37	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
38	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
39	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
40	1-2-3-4-17-18-25-26	8

Bk. 237
pg. 6664

BLOCK NUMBER	LOT NUMBERS	NO. LOTS
41	1-2-15-16-17-18-28-29-30	9
42	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
43	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
44	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
45	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23	23
46	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
47	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
48	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
49	3-4-15-16-19-20-21-25-26-27-28-29-30	13
50	12-13-14-15-16-22-23-24-25-26-27	11
51	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
52	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
53	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
54	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
55	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-20-21-22-23-24-25-26-27-28-29-30-31-32	28
56	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32
57	1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32	32

Recorded at 3:38 o'clock P.M. this 25th day of February 2004, at Reception No. 143246
Ladonna L. Jaramillo Deputy Recorder. Fee 6.0

SPECIAL WARRANTY DEED

ASARCO INCORPORATED FKA AMERICAN SMELTING AND REFINING COMPANY

STATE DOCUMENTARY FEE
2-25-04
8.08

whose address is 1150 N 7TH AVENUE, TUCSON, AZ 85705
County of Pima, and State of Arizona,

for the consideration of EIGHTY THOUSAND EIGHT HUNDRED DOLLARS, in hand paid, hereby sell(s) and convey(s) to

DAN DUGI DEFINED BENEFIT TRUST PLAN

whose legal address is 146 Post Oak Way, Cuero, TX 77954
County of , and State of Texas,

the following real property in the County of San Juan, and the State of Colorado, to wit:

Piedmont Lode Mining Claim and River Lode Mining Claim, U.S. Mineral Survey No. 15112, Animas Mining District, County of San Juan, State of Colorado.

also known by street and number N/A

with all its appurtenances and warrant(s) the title against all persons claiming under (me) (us); Subject to all outstanding Deeds of Trust of record.

Signed and delivered this 30th day of January, 2004.

ASARCO Incorporated fka American Smelting and Refining Company

D.E. McAllister
By: Douglas E. McAllister, Vice President, General Counsel + Secretary

Gary A. Miller
By: Gary A. Miller, Vice President, Commercial

STATE OF ARIZONA)
) ss:
COUNTY OF MARICOPA)

The foregoing instrument was acknowledged before me on this 30th day of January, 2004, by

IN WITNESS WHEREOF I hereunto set my hand and official seal.

My commission expires on: Michelle Pechan
Notary Public

MICHELLE PECHAN
Notary Public - Arizona
Maricopa County
My Comm. Expires Jun 13, 2007

Recorded at 3:32 o'clock P.M. this 25th day of February 2004, at Reception No. 143242.
Ladonna L. Jaramillo Deputy Recorder. Fee $6.00

Re-recorded March 17,2004 at 2:22PM Reception No 143302

SPECIAL WARRANTY DEED

STATE DOCUMENTARY FEE
DATE 2-25-04
$ 2.79

ASARCO INCORPORATED FKA AMERICAN SMELTING AND REFINING COMPANY

whose address is 1150 N. 7TH AVENUE, TUCSON, AZ 85705
County of Pima, and State of Arizona,

for the consideration of TWENTY SEVEN THOUSAND NINE HUNDRED DOLLARS, in hand paid, hereby sell(s) and convey(s) to

STEVEN R. LEISLE AN UNDIVIDED ½ INTEREST AND DANIEL M. LEISLE, AN UNDIVIDED ½ INTEREST, AS TENANTS IN COMMON

whose legal address is P.O. Box 827, Silverton, CO 81433 (Steven Leisle)
County of , and State of Colorado,

whose legal address is 369 Sealake Lane, Ponte Vedra, FL 32082 (Daniel Leisle)
County of , and State of Florida,

the following real property in the County of San Juan, and the State of Colorado, to wit:

New York Lode Mining Claim, U.S. Mineral Survey No. 15112, Animas Mining District, County of San Juan, State of Colorado.

also known by street and number N/A

with all its appurtenances and warrant(s) the title against all persons claiming under (me) (us); Subject to all outstanding Deeds of Trust of record.

Signed and delivered this 30th day of January, 2004.

ASARCO Incorporated fka American Smelting and Refining Company

D. E. McAllister
By: Douglas E. McAllister, Vice President, General Counsel + Secretary

Gary A. Miller
By: Gary A. Miller, Vice President, Commercial

STATE OF ARIZONA)
) ss:
COUNTY OF MARICOPA)

The foregoing instrument was acknowledged before me on this 30th day of January, 2004, by Douglas E. McAllister, Vice President, General Counsel and Secretary and Gary A. Miller, Vice President, Commercial of ASARCO Incorporated.

IN WITNESS WHEREOF I hereunto set my hand and official seal.

Michelle Pechan
Notary Public

My commission expires on:

MICHELLE PECHAN
Notary Public - Arizona
Maricopa County
My Comm. Expires Jun 13, 2007

RE-RECORDED TO CORRECT NOTARY.

Recorded at 2:13 o'clock P.M. this 17th day of March 2004, at Reception No. 143298
Dorothy A. Zamora
Recorder.

SPECIAL WARRANTY DEED

ASARCO INCORPORATED FKA AMERICAN SMELTING AND REFINING COMPANY

whose address is 1150 N. 7TH AVENUE, TUCSON, AZ 85705
County of Pima , and State of Arizona,

for the consideration of TEN THOUSAND FOUR HUNDRED AND SIXTY DOLLARS, in hand paid, hereby sell(s) and convey(s) to

RONALD H. BALDWIN AND NANCY G. BALDWIN

whose legal address is 5730 Tee Drive, Farmington, NM 87402
County of , and State of New Mexico.

STATE DOCUMENTARY FEE
DATE 3/17/04
$ 105

the following real property in the County of San Juan, and the State of Colorado, to wit:

Chloride Lode Mining Claim, U.S. Mineral Survey No. 411
McGregor Lode Mining Claim, U.S. Mineral Survey No. 423
Susquehanna Lode Mining Claim, U.S. Mineral Survey No. 447
Aspen Lode Mining Claim, U.S. Mineral Survey No. 199
Mammoth Lode Mining Claim, U.S. Mineral Survey No. 449
all in the Animas Mining District, County of San Juan, State of Colorado.

also known by street and number N/A

with all its appurtenances and warrant(s) the title against all persons claiming under (me) (us); Subject to all outstanding Deeds of Trust of record.

Signed and delivered this 4th day of March, 2004.

ASARCO Incorporated fka American Smelting and Refining Company

By: Douglas E. McAllister, Vice President General Counsel + Secretary

By: Gary A. Miller, Vice President, Commercial

STATE OF ARIZONA)
) ss:
COUNTY OF MARICOPA)

The foregoing instrument was acknowledged before me on this 4th day of March, 2004, by Douglas E. McAllister, Vice President, general counsel & Secretary & Gary A. Miller, Vice President of ASARCO Incorporated.
IN WITNESS WHEREOF I hereunto set my hand and official seal.

Michelle Pechan
My commission expires on: Notary Public

MICHELLE PECHAN
Notary Public - Arizona
Maricopa County
My Comm. Expires Jun 13, 2007

Recorded at 8:20 o'clock A M. this 25 day of June 2004, at Reception No. 143521
Dorothy Zanoni Recorder.

GENERAL WARRANTY DEED

THIS DEED, is made the date first set forth below, between the undersigned and hereinafter named Grantor and the hereinafter named Grantee:

DATE: JUNE 25, 2004

Grantors:
STEVEN R. LEISLE
P.O. BOX 827
SILVERTON, CO 81433

DANIEL M. LEISLE
369 N. SEALAKE LANE
PONTE VEDRA, FL 32082

STATE DOCUMENTARY FEE
DATE 6/25/04
$ 7.20

Grantees:
GARY DEAN COX AND KAREN M. COX
95 CLOVER LANE
PAGOSA SPRINGS, CO 81147

CONSIDERATION: SEVENTY TWO THOUSAND DOLLARS

IN WITNESS WHEREOF, GRANTOR, in consideration of the herein above stated CONSIDERATION, the receipt of which is hereby acknowledged, does hereby grant, sell and convey unto GRANTEE, not as Tenants in Common but as Joint Tenants with the right of survivorship, their heirs, personal representatives, executors, administrators, successors, and assigns forever, ALL that certain plot, piece or parcel of land, situate, lying and being in San Juan County, Colorado, to wit:

New York Lode Mining Claim, U.S. Mineral Survey No. 15112, Animas Mining District, County of San Juan, State of Colorado.

TOGETHER with all and singular the hereditaments and appurtenances thereto be onging, or in any wise appertaining, and the reversion and reversions, remainder and remainders, rents, issues and profits thereof, and all the estate, right, title, interest, claim and demand whatsoever of the Grantors, either in law or equity, of, in and to the above bargained premises, with the hereditaments and appurtenances.

TO HAVE AND TO HOLD the premises herein granted unto Grantee, their heirs and assigns forever. Grantor, WARRANTS that said premises are free and clear from all former and other grants, bargains, sales, liens, taxes, assessments, encumbrances and restrictions of whatever kind or nature soever, except: **TAXES AND ASSESSMENTS FOR THE YEAR IN WHICH THIS DEED IS EXECUTED, EASEMENTS, RESTRICTIONS, RESERVATIONS, COVENANTS AND RIGHTS-OF-WAY OF RECORD.**

IN WITNESS WHEREOF, Grantor has duly executed this deed on the date first above written.

Daniel M. Leisle
Daniel M. Leisle

Steven R. Leisle
Steven R. Leisle

STATE OF Florida)
) ss:
COUNTY OF Duval)

ACKNOWLEDGED before me this 22 day of June, 2004, by Daniel M. Leisle.

Witness my hand and official seal. Kathy M. Lynch
My commission expires: Notary Public

KATHY M. LYNCH
MY COMMISSION EXPIRES
OCTOBER 11, 2005
DD 063874
Bonded thru
Notary Public Underwriters
NOTARY PUBLIC, STATE OF FLORIDA

STATE OF Colorado)
) ss:
COUNTY OF Ouray)

ACKNOWLEDGED before me this 24 day of June, 2004, by Steven R. Leisle.

Witness my hand and official seal. Nancy M. Boots
My commission expires: Notary Public

San Juan County Filed for Record July 12, 2004 at 1:34PM Fee $16.00
Reception No 143554 Sadonna L. Jaramillo Deputy

WARRANTY DEED
Tract No. COC -66357

ASARCO Incorporated, whose address is 2575 East Camelback Road, Suite 500, Phoenix, Arizona 85016, hereinafter called Grantor, does hereby grant, bargain, sell and convey to the UNITED STATES OF AMERICA, hereinafter called Grantee, and its assigns, the following patented mining claims situated in the County of San Juan, State of Colorado:

Claim Name	Mineral Survey No.
Silver Star	681
Legal Tender	753
Washington	15112
Illinois	14019
Prof. Winkler Millsite	9842B
Adams Placer	15143
Potomac	457
Republic	1158P
Lightning Attracting	16476
Scranton City No. 2	16476
20th Century	16476

STATE DOCUMENTARY FEE
DATE 7-12-04
$ 6.97

The mining claims herein conveyed contain a total of 107.5 acres.

The acquiring agency is the Bureau of Land Management, United States Department of the Interior.

TO HAVE AND TO HOLD unto the UNITED STATES OF AMERICA and its assigns forever. Grantor covenants and warrants that it is lawfully seized and possessed of the real property aforesaid and have the full right, power and authority to executed this conveyance, and that said real property is free and clear of liens, claims and encumbrances, except items which may be shown of record, and that they will defend the title to the real property conveyed herein and quiet enjoyment thereof against the lawful claims and demands of all persons.

Dated this 8th day of April, 2004.

ASARCO Incorporated

By: D E McAllister
Douglas E. McAllister
Vice President, General Counsel & Secretary

By: T L Aldrich
Thomas L. Aldrich
Vice President, Environmental Affairs

(2) 1413554

ACKNOWLEDGMENT

STATE OF ARIZONA)
)
COUNTY OF MARICOPA)

On this 8th day of April, 2004, Douglas E. McAllister, to me known to be the Vice President, General Counsel and Secretary of ASARCO Incorporated, a New Jersey corporation, came to me in person and acknowledged the foregoing Warranty Deed to be the free and voluntary act and deed of said corporation, and on oath stated that he is authorized to execute said instrument and that the seal affixed is the corporate seal of said corporation.

IN WITNESS THEREOF, I have hereunto set me hand and affixed my official seal the day and year in this certificate first above written.

Michelle Pechan

Notary Public in and for the
State of Arizona

MICHELLE PECHAN
Notary Public - Arizona
Maricopa County
My Comm. Expires Jun 13, 2007

Address: 2575 E. Camelback Road, Suite 500
Phoenix, AZ 85016

My commission expires: June 13, 2007

STATE OF ARIZONA)
)
COUNTY OF MARICOPA)

On this 8th day of April, 2004, Thomas L. Aldrich, to me known to be the Vice President, Environmental Affairs of ASARCO Incorporated, a New Jersey corporation, came to me in person and acknowledged the foregoing Warranty Deed to be the free and voluntary act and deed of said corporation, and on oath stated that he is authorized to execute said instrument and that the seal affixed is the corporate seal of said corporation.

IN WITNESS THEREOF, I have hereunto set me hand and affixed my official seal the day and year in this certificate first above written.

Michelle Pechan

Notary Public in and for the
State of Arizona

MICHELLE PECHAN
Notary Public - Arizona
Maricopa County
My Comm. Expires Jun 13, 2007

Address: 2575 E. Camelback Road, Suite 500
Phoenix, AZ 85016

My commission expires: June 13, 2007

③ 143554

ASARCO Incorporated

Certificate of Incumbency

I, Scott Thomas, as Assistant Secretary of ASARCO Incorporated, a corporation incorporated under the laws of the State of New Jersey (the "Company"), do hereby certify, as follows:

1. Each of the following persons are duly elected officers, assistant officers, directors, representatives or attorneys-in-fact of the Company validly elected to, and incumbents of, the offices shown next to the name of each such person and the signatures of such persons set forth opposite their respective names are their true and actual signatures. Each such officer, representative or attorney-in-fact is duly authorized on behalf of the Company to execute and act with respect to the Warranty Deed transferring various properties located in San Juan County, Colorado to the UNITED STATES OF AMERICA and all related documents to be executed and delivered on behalf of the Company.

Name	Title	Signature
Douglas E. McAllister	Vice President, General Counsel & Secretary	D E McAllister
Thomas F. Aldrich	Vice President, Environmental Affairs	T F Aldrich

IN WITNESS WHEREOF, I have hereunto signed my name officially and affixed the seal of the Company this 8th day of April, 2004.

Scott H. Thomas
Assistant Secretary

I, Gary A. Miller, Vice President, Commercial of the Company do hereby certify that Scott Thomas is the duly elected and qualified Assistant Secretary of the Company, and the signature set forth immediately preceding this certification is his true and genuine signature.

IN WITNESS WHEREOF, I have hereunto set my name as of the 8th day of April, 2004.

Gary A. Miller
Vice President, Commercial

Documentary Fee: $0.00

147213
Page 1 of 6
SAN JUAN COUNTY, COLORADO
DOROTHY ZANONI, RECORDER
12-14-2009 02:08 PM Recording Fee $31.00

WHEN RECORDED RETURN TO:

First American Title Insurance Company
24 Greenway Plaza, Suite 850
Houston, TX 77046
Attention: R.J. Dold NCS 411944C02

Grantee's Address: 35 E. Wacke
Dr., #1550, Chicago, IL 60601

No Consideration - Convenience Deed
C.R.S. 39-13-104

QUITCLAIM DEED

STATE OF COLORADO §
§ KNOW ALL BY THESE PRESENTS
COUNTY OF SAN JUAN §

THAT **ASARCO LLC, a Delaware limited liability company** as successor by merger to ASARCO Incorporated, a New Jersey corporation, f/k/a American Smelting and Refining Company, a New Jersey corporation, successor-in-interest to Garfield Smelting Company and Silver Lakes Mine Company ("***Grantor***"), for and in consideration of the sum of Ten Dollars and No/100 ($10.00) and other good and valuable consideration paid by the **ASARCO Multi-State Custodial Trust by and through Le Petomane XXV, Inc., not individually but solely in its representative capacity as Trustee of the ASARCO Multi-State Custodial Trust** ("***Grantee***"), the receipt of which is hereby acknowledged, and pursuant to the Order of the United States District Court for the Southern District of Texas, Corpus Christi Division entered on November 13, 2009 in Case No. 05-21207 styled *In re: ASARCO LLC, et al,* has remised, released, sold, conveyed and QUITCLAIMED and by these presents does remise, release, sell, convey and QUITCLAIM unto Grantee, all of Grantor's rights, title and interests in and to (a) those certain tracts of land located in San Juan County, Colorado, as more particularly described in Exhibit A attached hereto and incorporated herein by this reference for all purposes (b) strips and gores between such tract(s) of land and any abutting properties owned and held under fence by Grantor, (c) any land lying in or under the bed of any creek, stream or waterway or any highway, avenue, street, road, alley, easement or right-of-way, open or proposed, in, on, across, abutting or adjacent to such tract(s) of land, (d) improvements, buildings or fixtures located on such tract(s) of land, (collectively, the "***Property***"), together with all of Grantor's rights, claim, title and interest in and to any and all appurtenances, rights, easements, rights-of-way, mining rights (including unpatented mining claims, mill site claims, and placer claims), mineral rights, mineral claims, appurtenant groundwater rights, associated surface water rights, claims, and filings or other interests, including rents and profits accruing after the effective date hereof, related to the Property (the "***Attendant Property Rights***").

TO HAVE AND TO HOLD all of Grantor's rights, titles and interests in and to the Property and the Attendant Property Rights unto Grantee, its successors and assigns forever, so that neither Grantor nor its successors and assigns shall have, claim or demand any right or title to the Property, the Attendant Property Rights or any part thereof.

[Signature on following page]

EXECUTED effective as of the 9th day of December, 2009.

GRANTOR:

ASARCO LLC,
a Delaware limited liability company

By: _____
Thomas L. Aldrich
Vice President, Environmental Affairs

By: _____
Douglas E. McAllister
Executive Vice President, General Counsel

State of ARIZONA)
) ss.
County of PIMA)

The foregoing instrument was acknowledged before me this 3rd day of December, 2009, by Thomas L. Aldrich, Vice President of Environmental Affairs of ASARCO LLC, a Delaware limited liability company.

Witness my hand and official seal.

Jackie Haas
Notary Public in and for
The State of Arizona

Jackie Haas
Print Notary Name

OFFICIAL SEAL
JACKIE HAAS
NOTARY PUBLIC-ARIZONA
PIMA COUNTY
My Comm. Exp. May 27, 2011

My Commission expires:

State of ARIZONA)
) ss.
County of PIMA)

The foregoing instrument was acknowledged before me this 3rd day of December, 2009, by Douglas E. McAllister, Executive Vice President and General Counsel of ASARCO LLC, a Delaware limited liability company.

Witness my hand and official seal.

Jackie Haas
Notary Public in and for
The State of Arizona

Jackie Haas
Print Notary Name

OFFICIAL SEAL
JACKIE HAAS
NOTARY PUBLIC-ARIZONA
PIMA COUNTY
My Comm. Exp. May 27, 2011

My Commission expires:

EXHIBIT A

Legal Description

The land referred to in Schedule A is situated in the County of San Juan, State of Colorado and is described as follows:

SUBJECT PROPERTIES:
Mining Claims - U.S. Survey No., San Juan County, Colorado

Parcel # 48290220010002
Algiers lode claim - 11469
Badger lode claim - 11448
Emma lode claim - 238
Galena lode claim - 11448
Jocko lode claim - 14163
Last Chance lode claim - 11448
Lowville lode claim - 5529-A
Lowville Mill site - 5529-B
Nevada lode claim - 8530
Nevada Ext lode claim - 8497
New York City lode claim - 9104
Professor Newberry lode claim - 14046
Rochester lode claim - 4764
Round Mountain lode claim - 5110
Smyrna lode claim - 12122A

Parcel # 48290260010001
American Boy - 7244 (undivided 2/3 interest)
Barbadoes lode claim - 14036
Buckeye lode claim - 232
Buckeye No. 2 lode claim - 7896
Club - 12978 mining claim
Cub - 12193 mining claim
Dandy lode claim - 7896
Elk mining claim - 12977
Exploit mining claim - 12946
General Merritt lode claim - 14030
Grip mining claim - 6647
Hillside mining claim - 12946
Homestake lode claim - 5471
Jaffa lode claim - 12122A
Lake Shore mining claim - 13064
Last Chance lode claim - 7896

Last Chance lode mining claim - 12193
Manila lode claim - 14030
Melville mining claim - 12353
Panuco lode claim - 7896
Professor Wedding lode claim - 11469
Professor Weisbach lode claim - 11469
Professor Zeuner lode claim - 11469
Royal Tiger mining claim - 48
Tiger Ext No. 2 lode claim - 14036

Parcel # 48290230010001
Arabian Boy mining claim - 6994
Black Diamond mining claim - 4811
Dump mining claim - 9843A
Eckley Coxe lode claim - 14066
Essex Street lode claim - 9106A
Freiberg lode claim - 14047
Galycia Bay mining claim - 13139
General Halleck lode claim - 14067
General Miles lode claim - 14066
Gretchen lode claim - 2163
J.W. Collins mining claim - 6561
Key mining claim - 13065
Lakeside mining claim - 12818
Professor Percy lode claim - 14066
Professor Stelzner lode claim - 7568
Rivington Street lode claim - 9003
Royal lode claim - 6198
Royal Tiger No. 1 lode claim - 48
Silver Lake lode claim - 2164
Silver Lake Spur lode - 6994
Whale lode claim - 4764
White Diamond mining claim - 13011
Stag mining claim - 6646

Parcel # 48290230010011
Cremorne lode claim - 827
North Star Ext lode claim - 7772

Parcel # 48290000010024
Bear lode claim - 280
Cairo lode claim - 11469
Carolina lode claim - 5569-A
Seymour lode claim - 96
Solstice lode claim - 5571

Titusville lode claim - 403

Parcel # 48290140010003
Big Giant Ext lode claim - 14320

Parcel # 48290210010002
Demosthenes lode claim - 14220
Pompeii lode claim - 404
Pyramid lode claim - 2461
Pyramid No. 2 lode claim - 14220
Pyramid No. 3 lode claim - 14220

Parcel # 48290140010033
Dreadnaught lode claim - 14320
General Garfield lode claim - 828

Parcel # 48290100010004
Marcia L. mill site - 8801B
Rochester mill site - 8592
The New York lode, the Piedmont lode, the San Juan lode, the Washington lode and the River lode, U.S Survey Lot No. 15112.

SAN JUAN COUNTY, COLORADO
LADONNA L. JARAMILLO, RECORDER
04-11-2014 02:06 PM Recording Fee $11.00

WHEN RECORDED RETURN TO:
Dean Cox
95 Clover Lane
Pagosa Spgs, CO 81147

QUITCLAIM DEED

THIS DEED, made this 11th day of April, 2017 between Gary Dean & Karen M. Cox ("Grantor"), of the County of San Juan and State of Colorado and Gary Dean Cox ("Grantee"), whose legal address is 95 Clover Lane, Pagosa Spgs, CO 81147

WITNESS, that the Grantor, for and in consideration of Ten ($10.00) Dollars and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, has remised, released, sold and QUITCLAIMED and by these presents does remise, release, sell and QUITCLAIM unto the Grantee, and the Grantee's heirs and assigns forever, as ** _____, all of the right, title interest, claim and demand that the Grantor has in and to the real property, together with the fixtures and improvements located thereon, if any, situate, lying and being in the County of San Juan and State of Colorado, described as follows:
48290100010044
New York Lode, MS 15112 - 10.33 AC

Also Known As: New York Claim

TO HAVE AND TO HOLD the same, together with all and singular the appurtenances and privileges thereunto belonging, or in anywise thereunto appertaining, and all the estate, right, title, interest and claim, whatsoever, of the Grantor, either in law or in equity, to the only proper use, benefit and behalf of the Grantee, and the Grantee's heirs and assigns forever.

EXECUTED AND DELIVERED on the date set forth above.

Gary Dean Cox Karen M. Cox

STATE OF: Colorado }
} ss.
COUNTY OF: San Juan }

The foregoing instrument was acknowledged before me on April 11th, 2014 by Gary Dean Cox and Karen M Cox.

Witness my hand and official seal.
My commission expires:
02/23/2017

Megan E.G. Salazar
Notary Public

MEGAN E.G. SALAZAR
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID #20094006420
My Commission Expires Feburary 23, 2017

** If tenancy is unspecified, the legal presumption shall be tenants in common (C.R.S. 38-31-101).

149578
Page 1 of 1
SAN JUAN COUNTY, COLORADO
LADONNA L. JARAMILLO, RECORDER
06-24-2014 01:34 PM Recording Fee $11.00

BENEFICIARY DEED

(§15-15-401, *et seq.*, Colorado Revised Statutes)
CAUTION: THIS DEED MUST BE RECORDED PRIOR TO THE DEATH OF THE GRANTOR IN ORDER TO BE EFFECTIVE.

Gary Dean Cox, as grantor, designates Bryson Benson Cox, Gina Lorraine Johnson and Grant Lee Cox as grantee-beneficiaries whose addresses are 3096 W. Prentice #K, Littleton, Colorado 80123-8540 (Bryce), 1431 5th Avenue, Scottsbluff, Nebraska 69361 (Gina) and 19044 Inca Avenue, Lakeville, Minnesota 55044 (Grant).

Grantor transfers, sells, and conveys on grantor's death to the grantee-beneficiaries, the following described real property located in the County of San Juan, State of Colorado:

48290100010044, New York Lode, MS 15112, 10.33 AC.

Together with all of Grantor's right, title and interest, if any, oil, gas, gravel, and other minerals in, on, or under the above described property.

Reserving a life estate for Karen Marie Cox.

No Doc Fee

THIS BENEFICIARY DEED IS REVOCABLE. IT DOES NOT TRANSFER ANY OWNERSHIP UNTIL THE DEATH OF THE GRANTOR. IT REVOKES ALL PRIOR BENEFICIARY DEEDS BY THIS GRANTOR FOR THIS REAL PROPERTY EVEN IF THIS BENEFICIARY DEED FAILS TO CONVEY ALL OF THE GRANTOR'S INTEREST IN THIS REAL PROPERTY.

WARNING: EXECUTION OF THIS BENEFICIARY DEED MAY DISQUALIFY THE GRANTOR FROM BEING DETERMINED ELIGIBLE FOR, OR FROM RECEIVING MEDICAID UNDER TITLE 26, COLORADO REVISED STATUTES.

WARNING: EXECUTION OF THIS BENEFICIARY DEED MAY NOT AVOID PROBATE.

Executed on June 19, 2014.

Gary Dean Cox

STATE OF COLORADO
County of La Plata

The foregoing instrument was acknowledged before me this 19th day of June, 2014, by Gary Dean Cox.

Witness my hand and official seal.

Notary Public

ASHLEY GEYER NOTARY PUBLIC STATE OF COLORADO
My Commission Expires 05/19/2015

(Note to Assessor and Treasurer: This address is for identification purposes only, all notices and tax statements should continue to be sent to grantor.)

No. 48. BENEFICIARY DEED Return to: Newbold Chapman & Geyer 150 E. 9th St. Ste. 400 Durango, CO 81301 (Page 1 of 1)

Documentary Fee: $1.98

150934
Page 1 of 1
SAN JUAN COUNTY, COLORADO
LADONNA L. JARAMILLO, RECORDER
01-26-2017 08:05 AM Recording Fee $13.00

State Documentary Fee
Date: January 20, 2017
$ 1.98

Warranty Deed

(Pursuant to 38-30-113 C.R.S.)

THIS DEED, made on **January 20, 2017** by **RONALD H. BALDWIN AND NANCY G. BALDWIN** Grantor(s), of the County of **SAN JUAN** and State of **UTAH** for the consideration of **($19,800.00) *** Nineteen Thousand Eight Hundred and 00/100 ***** dollars in hand paid, hereby sells and conveys to **SAMANTHA E. BANKSTON** Grantee(s), whose street address is **P.O. BOX 6366 INCLINE VILLAGE, NV 89450**, County of Washoe, and State of **NEVADA**, the following real property in the County of **San Juan**, and State of Colorado, to wit:

CHLORIDE LODE MINING CLAIM, U.S. MINERAL SURVEY NO. 411
MCGREGOR LODE MINING CLAIM, U.S. MINERAL NO. 423,
SUSQUEHANNA LODE MINING CLAIM, U.S. MINERAL SURVEY NO 447,
ASPEN LODE MINING CLAIM, U.S. MINERAL SURVEY NO. 199,
MAMMOTH LODE MINING CLAIM, U.S. MINERAL SURVEY NO. 449,
ALL IN THE ANIMAS MINING DISTRICT, COUNTY OF SAN JUAN, STATE OF COLORADO.

also known by street and number as: **ANIMAS MINING DISTRICT SILVERTON CO 81433**

with all its appurtenances and warrants the title to the same, subject to *general taxes for the year 2017 and those specific Exceptions described by reference to recorded documents as reflected in the Title Documents accepted by Grantee(s) in accordance with Record Title Matters (Section 8.2) of the Contract to Buy and Sell Real Estate relating to the above described real property; distribution utility easements, (including cable TV); those specifically described rights of third parties not shown by the public records of which Grantee(s) has actual knowledge and which were accepted by Grantee(s) in accordance with Off-Record Title Matters (Section 8.3) and Current Survey Review (Section 9) of the Contract to Buy and Sell Real Estate relating to the above described real property; inclusions of the Property within any special tax district; Any special assessment if the improvements were not installed as of the date of Buyer's signature on the Contract to Buy and Sell Real Estate, whether assessed prior to or after Closing; and other* **NONE**

Ronald H Baldwin
RONALD H. BALDWIN

Nancy G Baldwin
NANCY G. BALDWIN

State of Utah)
) ss.
County of Wasatch)

The foregoing instrument was acknowledged before me on this day of **January 26, 2017** 12 27
by **RONALD H. BALDWIN AND NANCY G. BALDWIN**

Julie C. Giles
Notary Public
My commission expires 10-29-2018

JULIE C. GILES
Notary Public
State Of Utah
My Commission Expires 10-29-2018
COMMISSION NO. 679918

When Recorded Return to: **SAMANTHA E. BANKSTON**
P.O. BOX 6366 INCLINE VILLAGE, NV 89450

Land Title GUARANTEE COMPANY

Recorded at 3:28 o'clock P .M. this 25th day of February 2004, at Reception No. 143240
Radonna L. Jaramillo Deputy Recorder. Fee $6.00

SPECIAL WARRANTY DEED

STATE DOCUMENTARY FEE
DATE 2-25-04
$ 55.

ASARCO INCORPORATED FKA AMERICAN SMELTING AND REFINING COMPANY

whose address is 1150 N. 7TH AVENUE, TUCSON, AZ 85705
County of Pima , and State of Arizona,

for the consideration of FIVE THOUSAND FIVE HUNDRED DOLLARS, in hand paid, hereby sell(s) and convey(s) to

SHAWN T. ANDREATTA AND CORI J. ANDREATTA

whose legal address is 10 Sunridge Court, Durango, CO 81301,
County of , and State of Colorado,

the following real property in the County of San Juan, and the State of Colorado, to wit:

Hermosa Lode Mining Claim, U.S. Mineral Survey No. 19974, Animas Mining District, County of San Juan, State of Colorado.

also known by street and number N/A

with all its appurtenances and warrant(s) the title against all persons claiming under (me) (us); Subject to all outstanding Deeds of Trust of record.

Signed and delivered this 9th day of February, 2004.

ASARCO Incorporated fka American Smelting and Refining Company

D. E. McAllister
By: Douglas E. McAllister
Vice President, General Counsel + Secretary

Gary A. Miller
By: Gary A. Miller, Vice President, Commercial

STATE OF ARIZONA)
) ss:
COUNTY OF MARICOPA)

The foregoing instrument was acknowledged before me on this 9th day of February, 2004, by

IN WITNESS WHEREOF I hereunto set my hand and official seal.

Michelle Pechan
Notary Public

My commission expires on:

MICHELLE PECHAN
Notary Public - Arizona
Maricopa County
My Comm. Expires Jun 13, 2007

Recorded at 3:28 o'clock P M. this 25th day of February 2004 at Reception No. 143240.
Ladonna L. Jaramillo Deputy Recorder. Fee $6.00

Re-recorded March 17, 2004 at 2:19PM Reception No 143301

SPECIAL WARRANTY DEED

STATE DOCUMENTARY FEE
DATE 2-25-04
$ .55

ASARCO INCORPORATED FKA AMERICAN SMELTING AND REFINING COMPANY

whose address is 1150 N. 7TH AVENUE, TUCSON, AZ 85705
County of Pima, and State of Arizona,

for the consideration of FIVE THOUSAND FIVE HUNDRED DOLLARS, in hand paid, hereby sell(s) and convey(s) to

SHAWN T. ANDREATTA AND CORI J. ANDREATTA

whose legal address is 10 Sunridge Court, Durango, CO 81301,
County of , and State of Colorado,

the following real property in the County of San Juan, and the State of Colorado, to wit:

Hermosa Lode Mining Claim, U.S. Mineral Survey No. 19974, Animas Mining District, County of San Juan, State of Colorado.

also known by street and number N/A

with all its appurtenances and warrant(s) the title against all persons claiming under (me) (us); Subject to all outstanding Deeds of Trust of record.

Signed and delivered this 9th day of February, 2004.

ASARCO Incorporated fka American Smelting and Refining Company

D. E. McAllister
By: Douglas E. McAllister
Vice President, General Counsel & Secretary

Gary A. Miller
By: Gary A. Miller, Vice President, Commercial

STATE OF ARIZONA)
) ss:
COUNTY OF MARICOPA)

The foregoing instrument was acknowledged before me on this 9th day of February, 2004, by Douglas E. McAllister, Vice President, General Counsel and Secretary and Gary A. Miller, Vice President, Commercial of ASARCO Incorporated.

IN WITNESS WHEREOF I hereunto set my hand and official seal.

Michelle Pechan
Notary Public

My commission expires on:

MICHELLE PECHAN
Notary Public - Arizona
Maricopa County
My Comm. Expires Jun 13, 2007

RE-RECORDED TO CORRECT NOTARY.

Recorded at 8:20 o'clock A M this 25 day of June 2004, at Reception No 143520
Dorothy A. Ramone Recorder.

SPECIAL WARRANTY DEED

ASARCO INCORPORATED FKA AMERICAN SMELTING
AND REFINING COMPANY

whose address is 1150 N. 7TH AVENUE, TUCSON, AZ 85705
County of Pima, and State of Arizona.

STATE DOCUMENTARY FEE
DATE 6/25/04
$ .59

for the consideration of FIVE THOUSAND EIGHT HUNDRED NINETY DOLLARS, in hand paid, hereby sell(s) and convey(s) to

RONALD H. BALDWIN AND NANCY G. BALDWIN

whose legal address is 5730 Tee Drive, Farmington, NM 87402,
County of , and State of New Mexico.

All not as tenants in common, but as joint tenants the following real property in the County of San Juan, and the State of Colorado, to wit:

La Boca Mining Claim, U.S. Mineral Survey No. 19479, Animas Mining District, County of San Juan, State of Colorado.

also known by street and number N/A

with all its appurtenances and warrant(s) the title against all persons claiming under (me) (us); Subject to all outstanding Deeds of Trust of record

Signed and delivered this 15 day of June, 2004.

ASARCO Incorporated fka American Smelting
and Refining Company

By: Genaro Guerrero

By: Oscar Gonzalez

STATE OF ARIZONA)
) ss:
COUNTY OF MARICOPA)

The foregoing instrument was acknowledged before me on this 15th day of June, 2004, by Genaro Guerrero as Vice President, Chief Financial Officer and Treasurer and Oscar Gonzalez as Controller, respectively of ASARCO Incorporated, a New Jersey corporation.

IN WITNESS WHEREOF I hereunto set my hand and official seal.

My commission expires on: Notary Public

MICHELLE PECHAN
Notary Public - Arizona
Maricopa County
My Comm. Expires Jun 13, 2007

(001)
F
cp. 2

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY
GEORGE OTIS SMITH, DIRECTOR

MINERAL RESOURCES

OF THE

UNITED STATES.

CALENDAR YEAR
1906

U.S. GEOLOGICAL SURVEY
DENVER
MAR 29 1956
LIBRARY

14938

WASHINGTON
GOVERNMENT PRINTING OFFICE
1907

906351

MY-1906-001

In the Spar Consolidated, increased shipments netted a greater number of fine ounces of silver but a smaller quantity of lead than in 1905. Operations on this property are carried on through a 3,000-foot tunnel. Other prominent producers include the Homestead, the Millinee, and the Mineral Farm mines. The latter has an inclined shaft 600 feet below the Cowenhoven tunnel and 6,000 feet from its portal.

In the Lincoln district, in the southeast corner of the county, the Ruby Mining and Development Company shipped an increased tonnage and erected a 50-ton concentrating plant, equipped with a crusher, rolls, Huntington mill, and tables. The mine is opened by a 2,500-foot tunnel. The State road now being built from Aspen into Lincoln gulch should mean much to the mining interests of this formerly isolated region.

At Ashcroft, 12 miles south of Aspen, in the Columbia district, the management of the Tam O'Shanter-Montezuma mines report a year of active development, by which much silver-lead-zinc ore was blocked out.

ROUTT COUNTY.

There was but little change in the production of gold and silver from Routt County in 1906. The entire output was derived from placers, and amounted to 336.24 fine ounces of gold, valued at $6,951, an increase of $46 over 1905, and 42 fine ounces of silver, valued at $28, a gain of 12 ounces. Much attention has been drawn to the lode mines of this county, and during 1906 considerable exploitation and development work was done by individuals in the various districts along the eastern side of the county, especially in the region about Steamboat Springs, Hahns Peak, and the new Slavonia district, on the west slopes of Mount Zirkel.

Hahns Peak district.—The Iowa-Hahns Peak Gold Mining Company built a dredge on the Iowa placers and had just begun digging when the cold weather forced them to shut down for the winter. Small placer operations won a few ounces from the Hahns Peak and Elk River Canal and Placer Mining Company's holdings.

Lay district.—The Lay or Jack Rabbit district includes a large area north of the town of Lay, from which encouraging reports have been received as to the extensive placer gravels. The Blevin dredge, 8 miles north of Lay, was operated about 50 days during 1906 and won a large part of the gold credited to this county. These deposits are supposed to be reconcentrated Tertiary gravels, as no primary gold deposits are known to exist anywhere near this section.

Four Mile district.—A small quantity of bullion was saved from the placers of Four Mile district, just south of Baggs, in northern Routt County.

SAGUACHE COUNTY.

A decrease from $13,112 to $10,923 occurred in the value of the metallic output of Saguache County in 1906, but the gold increased from $699 to $7,628. The silver output dropped from 4,401 fine ounces, valued at $2,658, to 737 fine ounces, valued at $494; the lead from 203,797 pounds, valued at $9,578, to 49,141 pounds, valued at $2,801, and the small copper production fell off entirely. The output was derived from 999 short tons, from 7 mines, as compared with 496 tons and 4 mines in 1905.

Baca Grant district.—In this district, about Crestone, the San Luis Valley Leasing and Mining Company was the principal producer. The development work of this company includes 3 tunnels totaling 1,000 feet in length and 2 vertical shafts amounting to 635 feet. The ore is handled by a 10-stamp mill.

Blake district.—Slightly increased shipments of silver-lead ore were reported from the M. E. G. and the Mountain Lion mines at Villa Grove in the Blake district. The Steel Canyon group is equipped with a 100-ton concentrating mill.

Kerber Creek district.—In the Kerber Creek district the Rawley mine, the largest producer in the county for 1905, was closed on account of labor difficulties.

SAN JUAN COUNTY.

Metallic production of San Juan County, Colo., in 1905 and 1906.

Year.	Gold.		Silver.		Copper.	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
	Fine ozs.		*Fine ozs.*		*Pounds.*	
1905	50,840.74	$1,050,971	750,844	$453,510	1,675,858	$261,434
1906	43,545.96	900,175	690,076	462,351	1,549,663	299,085
Increase (+) or decrease (−)	−7,294.78	−150,796	−60,768	+8,841	−126,195	+37,651

Year.	Lead.		Zinc.		Total.
	Quantity.	Value.	Quantity.	Value.	
	Pounds.		*Pounds.*		
1905	8,045,126	$378,121	248,627	$14,669	$2,158,705
1906	4,515,317	257,373	584,476	35,653	1,954,637
Increase (+) or decrease (−)	−3,529,809	−120,748	+335,849	+20,984	−204,068

The metallic product from the mines and mills of San Juan County for 1906 shows a decrease in quantity of all the metals except zinc, which more than doubled its output of 1905. The gold figures were less by 7,294.78 fine ounces and $150,796, and 60,768 fine ounces less of silver were reported. Copper decreased in quantity 126,195 pounds, but gained in value $37,651. San Juan County ranks second only to Lake County as a producer of copper in Colorado. The falling off in the value of the lead product was equal to the combined decreases of the other 3 metals, and was in a large measure due to the reduced tonnage from the Silver Lake mines. Twenty-six mines produced a total of 196,438 short tons of ore, with an average total value per ton of $9.95, compared with 204,139 short tons, with an average total value per ton of $10.57, in 1905. The siliceous ores amounted to 166,080 short tons, equal to nearly 85 per cent of the total tonnage, and were the source of 41,010 fine ounces, or over 94 per cent, of the gold product, and of 328,057 fine ounces, or less than 47 per cent, of the silver output. The remainder of the silver was won from copper, lead, and lead-zinc ores.

The year 1906 was very successful, notwithstanding the mishaps and hindrances which befell some of the larger producers. An unusually severe winter retarded mill construction and ore shipments in the early months, and snowslides destroyed the Green Mountain mill, as well as damaging some other properties. On April 20 the big concentrating mill of the Silver Lake Company was destroyed by fire.

MY-1906-002

The bursting of a water main temporarily crippled the plant of the Animas Power and Water Company at Rockwood, and thus deprived some of the mines and mills of their chief source of power, thereby curtailing their production.

San Juan County is primarily a milling county, as the great bulk of the ores average between $8 and $12 a ton. There were 14 active mills in 1906, some of large capacity, and others were being erected or remodeled.

Animas district.—The Ross Mining and Milling Company handled a good tonnage in their 150-ton matting smelter at Silverton, principally on gold and silver bearing copper ores from their own property—the Champion mine—as well as on custom ores from other mines. A greatly reduced output was made from the Silver Lake Mines Company owing to the burning of their mill. This mill was replaced by a 300-ton concentrating mill, the product of which carries lead and copper returns, as well as precious-metal values. In 1907 this plant will also handle ores from the Aspen mine, from which during 1906 only the higher grade crude ore was shipped to the Durango smelter. The Old Hundred Mines Company, in Cunningham Gulch, has rapidly become one of the county's heavy producers. The values are mostly in gold, with the remainder about equally divided among silver, lead, and copper. Three tunnels, respectively 56, 416, and 700 feet long, open the property. One of the tunnels will tap the vein at a depth of 2,700 feet. The surface equipment includes a 40-stamp mill with tables and vanners. The first half of the year was given up to development work, and the production was made during the latter months.

The Gold Tunnel and Railway Company have an 18,000-foot tunnel and a 100-ton concentrating plant. The Iowa Gold Mining and Milling Company resumed operations in their 150-ton concentrator on silver-lead ore from the Royal Tiger mine late in December, 1906, after an idleness of several years. The Hamlet mine is developed by 5 crosscut tunnels ranging in length from 100 to 800 feet. The mine is equipped with a concentrating mill. Other shippers include the Contention Mining Company, the Detroit and Colorado Mining Company, and the San Juan Smelting and Reduction Company.

King Solomon Mountain district.—The Dives Leasing Company and the Shenandoah No. 3 Leasing Company continued shipments to the Durango smelter.

Eureka district.—The great Gold King mine added another successful year's production, in addition to much development work, which now includes a 700-foot shaft and a 5,000-foot tunnel, which will cut the vein 900 feet below the present workings.

The Gold Prince mines, operated under the same management, did not begin producing at full capacity until the first of the present year, because of the noncompletion of their new steel 100-stamp mill at Animas Forks, 15 miles northeast of Silverton. The capacity is 500 tons per day, and the treatment includes stamp crushing, plate amalgamation, tube-mill regrinding, and concentration, followed by magnetic separation. The ores include sulphides of lead, zinc, iron, and copper carrying gold and silver values. The plant should materially aid in increasing the county's output for 1907.

The famous Sunnyside mines, connected with the mill at Eureka by a 3-mile aerial tramway, continued to be one of the county's

largest producers. The Grand Mogul mine, connected by aerial tram with the new 200-ton concentrating mill at Gladstone, was an important addition. The mine is developed by 3 tunnels aggregating about 20,000 feet in length, and the mill is equipped with 40 stamps, Card and Wilfley tables, and Blake electro-magnetic zinc separators. An increased production was reported from the Silver Wing mine by the Eureka Exploration Company, which also owns the Ridgeway mine.

SAN MIGUEL COUNTY.

Metallic production of San Miguel County, Colo., in 1905 and 1906.

Year.	Gold.		Silver.		Copper.		Lead.		Total.
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
	Fine ozs.		*Fine ozs.*		*Pounds.*		*Pounds.*		
1905	82,810.89	$1,711,853	1,275,079	$770,148	17,721	$2,764	6,970,152	$327,597	$2,812,362
1906	118,411.84	2,447,790	1,672,522	1,120,590	70,725	13,650	7,158,189	408,017	3,990,047
Increase (+) or decrease (−)	+35,600.95	+735,937	+397,443	+350,442	+53,004	+10,886	+188,037	+80,420	+1,177,685

The year 1906 was a banner year for San Miguel County, the leading county of the San Juan district and one of Colorado's principal producers, ranking third to Teller and Lake counties in tonnage, production of silver, and total value of metallic output and second only to Teller in quantity of gold. The output of 118,411.84 fine ounces of this metal, valued at $2,447,790, is greater by $735,937 than in 1905. Of silver there were 1,672,522 fine ounces saved, a gain of 397,443 fine ounces in quantity and of $350,442 in value. More than four times as much copper was reported, and the quantity of lead increased 188,037 pounds. The total gain in value amounted to $1,177,685, or over 41 per cent. With 21 producing mines, as compared with 19, there were mined 386,735 short tons of ore, as against 291,338 tons in 1905, and there was a slight advance in total value per ton, from $9.58 to $10.31.

The ores of this county have been classified as siliceous (or dry ores), of which there were 371,047 short tons, and as lead ores, of which class there were 15,688 tons. The siliceous ores amounted to 96 per cent of the gold and 87 per cent of the silver. The results of the placer cleanups during 1906 were insignificant as compared with 1905.

Upper San Miguel district.—This district, about Telluride, made the major portion of the production of the county. Each of the 3 large mines of this section report substantial increases in their outputs.

The Tom Boy Gold Mines Company made its entire extraction from the Argentine group, which is exploited by 18,948 feet of drifts, 3,269 feet of raises, and 1,684 feet of shafts. This company's 350-ton plate amalgamating mill is equipped with sixty 1,050-pound stamps and with thirty-six 6-foot Frue vanners. The ores were principally in gold with some lead and a comparatively small amount of silver.

The Smuggler-Union Mining Company operated their property through lessees. A 6,600-foot tunnel and 2 shafts, one 665 feet and the other 1,250 feet deep, develop this mine. The ore is reduced in 2 stamp mills, aggregating 140 stamps, followed by amalgamating

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MINERAL RESOURCES

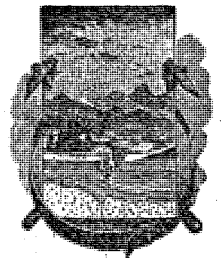
OF THE

UNITED STATES

CALENDAR YEAR

1907

PART I—METALLIC PRODUCTS



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The large decrease in tonnage and gold output was due to the idleness of the mines in the Baca Grant district, about Crestone, and smaller shipments of lead ores bearing gold, silver, and copper from the Blake district account for the falling off in the lead output.

In the Blake district, about Villa Grove, the Mountain Lion mine is developed by 3 inclined shafts, and a crosscut tunnel is being driven to cut the veins at a depth of 400 feet. The M. E. G. mine is opened by a 130-foot crosscut tunnel.

Shipments of assorted silver ore were made from the Esperanza mine, in the Crystal Hill district, in the southwestern corner of the county, near Del Norte. This mine is developed by a 200-foot vertical shaft.

SAN JUAN COUNTY.

Production of gold, silver, and associated metals in San Juan County, Colo., in 1906 and 1907.

Metal.	1906.		1907.		Increase (+) or decrease (−).	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Gold .....fine ounces..	43,545.96	$900,175	46,814.03	$967,732	+ 3,268.07	+$67,557
Silver .....do.....	690,076	462,361	1,175,176	775,616	+ 485,100	+313,265
Copper .....pounds..	1,549,663	299,085	2,450,280	490,056	+ 900,617	+190,971
Lead .....do.....	4,515,317	257,373	12,483,507	661,626	+7,968,190	+404,253
Zinc.....do.....	584,476	35,653	237,677	14,023	− 346,799	− 21,630
Total.....	.....	1,954,637	.....	2,909,053	.....	+954,416

The total value of the metallic product from the various mines and mills of San Juan County was almost a million dollars in excess of the value of the output of 1906, and amounted to $2,909,053 in 1907, as compared with $1,954,637 in 1906. There was an increased tonnage and also an increased production of all the metals, except zinc, which decreased to less than one-half of the production of 1906.

The gold output increased 3,268.07 fine ounces in quantity and $67,557 in value. Of this gain in quantity, 3,428.02 fine ounces were from dry or siliceous ores, 856.79 ounces from lead ores, and 447.27 ounces from lead-zinc ores. Copper ores from San Juan County mines furnished 1,464.01 fine ounces less gold than in 1906.

The quantity of silver mined in the county in 1907 was much larger than the output of 1906. The gain in value amounted to $313,265, or approximately one-third of the total increase of values from all of the metals over those of 1906. Nearly twice as much silver was won in all classes of ore except in copper ores, in which the silver product decreased from 179,797 fine ounces in 1906 to 69,168 ounces in 1907. Of the total silver output of the county, 646,612 fine ounces, or 55 per cent, were from dry or siliceous ores; 407,567 ounces, or nearly 35 per cent, were from lead ores; and the remainder, or 10 per cent, was furnished by copper ores and copper-lead ores.

Tere were 2,450,280 pounds of copper reported from the mines of San Juan County in 1907, as compared with 1,549,663 pounds in 1906—a gain of 900,617 ounds, or nearly 37 per cent. This large increase is chiefly due to the operations at the new Silver Lake concentrating mill on ores from the Aspen and Silver Lake mines.

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San Juan County almost equaled Lake County in 1907 as a copper producer. The lead production made the largest increases of all metal outputs, both in quantity and in value. The increase from 4,515,317 pounds in 1906, to 12,483,507 pounds, coupled with a decreased production of lead in Pitkin County in 1907, makes San Juan rank second only to Lake County as a producer of lead. The Iowa, the Grand Mogul, the Aspen, and the Silver Lake mines contributed largely to the greater lead output. The zinc production fell off over one-half of the output of 1906 and was about equal to that of 1905.

Twenty-seven mines reported shipments aggregating 235,639 short tons, in 1907, which averaged $12.35 per ton, crude, as compared with 196,438 short tons averaging $9.95 per ton, from 26 mines, in 1906. In 1907 the siliceous ores formed nearly 80 per cent of the total tonnage, as compared with 85 per cent in 1906, and the lead ores increased from 2,309 tons in 1906 to 35,201 tons in 1907, and constituted 15 per cent of the total output. There were smaller quantities of copper ores and lead-zinc ores than in 1906, but a larger tonnage of copper-lead ores was mined during 1907.

The misfortunes which occurred in 1906 were not repeated in 1907. The mining industry was very prosperous until the metal prices dropped, when, as in the other counties where silver and the base metals constitute a goodly portion of the values, some of the companies curtailed their shipments or temporarily closed down. Among these latter was the Ross Mining and Milling Company, which ceased work at its 125-ton copper-matting plant. Furthermore, a number of the large enterprises of the county were still in the development stage, and in some cases these were closed for the time being by the money stringency.

Animas district.—A great tonnage of copper-lead ores bearing precious metals was mined at the Aspen mine, and all but a small percentage was concentrated in one section of the new Silver Lake Mines mill. The mine is opened by crosscut tunnels. The Garfield Smelting Company likewise made a much larger production from its Silver Lake mines, all of which was concentrated in its new 450-ton mill, which was placed in commission early in 1907. The mine developments include several miles of tunnels, shafts, drifts, and raises.

A large tonnage of lead ore, carrying some silver and gold values, was mined and milled by the Iowa Gold Mining and Milling Company. The capacity of this company's concentrating mill is 150 tons. Less gold, but more silver, copper, and lead, was produced than in 1906 by the Old Hundred Mining Company, operating the Midland Mining Company, the Hawkeye Consolidated Mining Company, and the Old Hundred, and the Neigold claims.

The Ross Mining and Milling Company's smelter operations included the handling of considerable copper ore from the Red Mountain section, but ore was also obtained from their own properties in this county, which included the Champion, Silver Wing, St. Paul, and Galta Boy.

Production was reported by the Hamlet Mining and Milling Company. The ore carries some values in all 5 metals and is concentrated in the company's 70-ton mill. Shipments were also made by the Esmeralda, Green Mountain, Joe and John, Lookout, Mountaineer, and North Star mines. In addition, the Auburn Consolidated

Gold Mining Company, with a 1,200-foot tunnel, and the Mountain Queen Mining and Milling Company, with a 400-foot shaft and a 2,000-foot tunnel, reported active development work during 1907. The Peerless San Juan Mining Company was tunneling and drifting, and the ore was stored on the dump. A 300-ton concentrating mill was being erected at the Henrietta mine. The Silverton Mining Company's plans include the remodeling of its mill into a regular concentrating plant.

King Solomon district.—From the King Solomon section shipments were made from the Dives and the Shenandoah No. 3 mines.

Eureka district.—The Gold King Consolidated Mines Company and the Gold Prince Mines Company each made a large production, but the big Gold Prince mill at Animas Forks was not worked at full capacity during 1907.

Production was also continued by the Sunnyside and Grand Mogul mines in this district. The Hercules mine is developed by 3 tunnels, respectively 2,600 feet, 1,800 feet, and 1,920 feet in length, and by 2 shafts sunk from tunnel levels, and is equipped with a 150-ton amalgamating and concentrating mill. Gold formed the chief value in the ore, but it also contained some silver, copper, and lead values.

The Eureka Exploration Company made shipments of crude copper ore, carrying silver values, from the Silver Wing mine to the smelter at Silverton. The Bonanza King mine reported a small production.

Considerable development work was in progress during 1907 in the Eureka district, and the Astor Mining Company, the Consolidated Eureka Mining and Tunnel Company, and the Tom Moore Mining Company were all actively engaged in opening up their properties. The last concern has acquired a large number of claims, and reports that it has developed bodies of milling ore, and that a 200-ton mill is to be erected.

SAN MIGUEL COUNTY.

Production of gold, silver, and associated metals in San Miguel County, Colo., in 1906 and 1907.

Metal.	1906.		1907.		Increase (+) or decrease (−).	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Gold.....fine ounces..	118,411.84	$2,447,790	119,366.09	$2,467,516	+ 954.25	+$19,726
Silver.....do....	1,672,522	1,120,590	1,438,299	949,277	− 234,223	−171,313
Copper.....pounds..	70,725	13,650	14,905	2,981	− 55,820	− 10,669
Lead.....do....	7,158,189	408,017	5,274,641	279,556	−1,883,548	−128,461
Total.....	.....	3,990,047	.....	3,699,330	.....	−290,717

The metal output from San Miguel County in 1907 fell short of the record production of 1906 by $290,717. The mine reports showed decreases in the quantities of all the metals except gold, which made the slight advance of $19,726. The silver production decreased in quantity 234,223 fine ounces, or 14 per cent. The copper output was much smaller than in 1906, and a falling off of 1,883,548 pounds is noted in the lead output for 1907.

With 21 producing mines (the same number as in 1906), the total tonnage increased from 386,735 short tons in 1906 to 407,491 tons in

1907, but the total value per ton, crude, was only $9.08, as compared with $10.31 in 1906 and with $9.58 in 1905.

The siliceous or dry ores amounted to 406,650 short tons, or more than 99 per cent of the entire tonnage, and were the source of practically the entire gold and silver product, as much smaller quantities of precious metals were recovered from lead ores and from placer workings in 1907. Compared with the other counties of Colorado in 1907, San Miguel County ranked second only to Teller County as a gold producer, and third to Teller and Lake counties in the total tonnage mined and in the total value of the metallic output, and third to Lake and Pitkin counties as a silver producer.

Upper San Miguel district.—The production in this district in 1907 was 400,538 tons of ore and $2,385,265 in gold, 1,417,238 fine ounces of silver, 7,565 pounds of copper, and 4,936,170 pounds of lead. The total value of the production was $3,583,772. Three large mines of this district furnished over nine-tenths of the county's total production in 1907.

The Tom Boy Gold Mines Company (Limited) operating the Argentine mine, reported an increased tonnage and content of gold and copper and a greater total value, but the lead and silver values were less than in 1906. The Smuggler-Union Mining Company also reported an increased production, largely from the operations of leases.

At the Liberty Bell mine and mill a greater tonnage of somewhat lower grade ore was mined, and much development work was accomplished by means of a lower tunnel, which is 2,487 feet long, and a 964-foot upraise to the old workings. At the Argentine and the Liberty Bell mines the values are chiefly in gold, but at the Smuggler-Union mine the values are about equally divided between gold and silver.

Continued production was reported from the Alta mine and the Columbia-Menona, which has been included in a consolidation with other properties, by the Mines Finance Company. The Japan-Flora Mines and Tunnel Company also reported production from the Japan mines, which were developed by a 725-foot shaft connecting with a 3,000-foot tunnel.

During 1907 the Black Bear Mining Company built a 612-foot aerial tramway from the mine to the mill and a 5,895-foot tramway from the mill to the railroad at Pandora.

The Mayflower Gold Mining and Reduction Company also did considerable construction work during 1907, including remodeling of the old Alleghany mill, near the Liberty Bell mill, and connecting it with the mine in Gray's Basin by a 2½-mile aerial tramway. The difference in elevation is 3,060 feet, and one span over Bridal Veil Creek is 1,600 feet in length. The Ella Gold Mining Company, the Contention Mining Company, and the Gold King Mining Company reported shipments from this district in 1907.

Iron Springs district.—The value of the metallic product of the Iron Springs district was $61,071 in 1907, and came from 6,597 tons of ore yielding gold, silver, copper, and lead. An increased tonnage and increased gold output were reported, but the silver and lead totals were greatly decreased.

The Buckeye Mining and Leasing Company reported production from the Butterfly-Terrible mine, which is opened by a 3,200-foot tunnel and equipped with a 20-stamp amalgamating and concentrating mill. Shipments of high-grade silver-lead ore were reported

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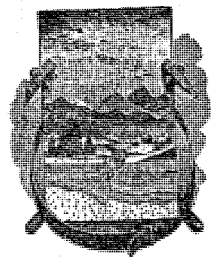
MINERAL RESOURCES
OF THE
UNITED STATES

CALENDAR YEAR
1908

PART I—METALLIC PRODUCTS



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ity of zinc also fell off 5,077,384 pounds. No copper production was reported, although the smelters show a small extraction of copper from the ores of the county. The production of gold in the county was insignificant. The tonnage sold or treated in 1908 was 33,408 short tons, a decrease of 50,428 tons.

Pitkin County in 1908 took third place in the production of silver, with San Juan County a close fourth, though for many years Aspen has been a close rival of Leadville in silver production. In the production of lead Leadville was first, with twice the output of San Juan. Pitkin was third.

The quantity of silver reported from dry ore, most of which carried less than 4.5 per cent of lead and had a siliceous or limestone gangue, was 530,928 fine ounces. The source of silver ore of next importance was lead-zinc ores, from which were extracted 438,064 fine ounces. The rest came from lead ores proper. The average assay in silver and lead of all the ore treated or sold was, theoretically, silver, 7.81 ounces; lead, 2.83 per cent.

Roaring Fork (or Aspen) district.—The larger mines of Aspen were not actively worked from the beginning of 1908 until April, when the Smuggler mill was started. Neither the Smuggler nor the Durant (which is owned by the same interests) made an output approaching that of 1907. The production from the Aspen mine was about the same as in 1907.

The Argentum-Juniata Mining Company shipped considerable siliceous silver ore.

Production was reported from the Aspen Fraction and American Fraction mines. The operators of the Spar Consolidated, Bushwhacker, Morley Zona, and Millince mines shipped silver-bearing lead ores. The Millionaire mine, with a tunnel 6,500 feet, the Della B., with a tunnel 6,000 feet, the Franklin, opened by a tunnel 4,500 feet long, all produced lead-silver ores. The Mineral Farm Consolidated mine was worked under lease, as was the Leadville mine. The Mineral Farm has an incline shaft. Some ore was shipped from the Hood Thunder and Celeste claims at Tourtelotte Park. The Percy-La Salle mines were shut down during 1908.

Lincoln district.—During the last two months of the year the Ruby Mines and Development Company's property, located in the southeast corner of the county, was worked, and ore was sent to smelter. There is a 50-ton concentration mill on this property. The workings consist of a 1,000-foot tunnel and drifts.

Columbia (or Ashcroft) district.—The Tam O'Shanter-Montezuma Mining Company developed its mine. An aerial tramway from mine to mill, about 1 mile long, is being constructed. A 50-ton concentrating mill was nearly completed in 1908.

RIO GRANDE AND SAGUACHE COUNTIES.

Four mines in Saguache and 1 in Rio Grande counties produced ore valued at less than $3,000. A small shipment of gold ore was made from Summitville, Rio Grande County.

The production in Saguache County in 1908 was about one-third of that of 1907. The decrease was nearly all in silver, the production of the other metals remaining as in 1907. A car of ore was shipped from the Independence mine, at Crestone, in the Baca land grant.

MY-1908-002

In the Embargo district, in southern Saguache County, just across the line from Rio Grande County, small shipments were made from the Golden Income mine and the Last Relief mine.

In the Bonanza district a few cars of lead-silver ore were shipped from the Antoro mine.

ROUTT COUNTY.

There was very little difference in the values of the metal production in Routt County in 1907 and 1908, the increase for 1908 being only $573. The total value of the output was $5,865, of which $5,207 was in gold and $658 was in silver.

Hahn's Peak district.—A little high-grade ore was shipped from the Royal Flush group by the Hahn's Peak Gold Mining and Milling Company. The property is opened by a shaft 600 feet deep and tunnels aggregating 2,972 feet.

Placer operations in 1908 were mainly confined to hydraulic work on the Blackburn placer and dredging on the Centennial placers by the Iowa-Hahn's Peak Gold Mining Company. There were a number of small producers.

Small placer operations were carried on in the Four Mile and Lay districts. In the latter the Housel-Melvin Mining Company began hydraulic work.

SAN JUAN COUNTY.

Mine production of gold, silver, and associated metals in San Juan County, Colo., in 1907 and 1908.

Metal.	1907.		1908.		Increase (+) or decrease (−).	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Gold.....fine ounces..	46,814.03	$967,732	48,269.74	$997,824	+ 1,455.71	+$30,092
Silver.....do....	1,175,176	775,616	1,004,287	532,272	− 170,889	−243,344
Copper.....pounds..	2,450,280	490,056	2,282,738	301,321	− 167,542	−188,735
Lead.....do....	12,483,507	661,626	8,402,569	352,908	−4,080,938	−308,718
Zinc.....do....	237,677	14,023	10,131	476	− 227,546	− 13,547
	.....	2,909,053	.....	2,184,801	.....	−724,252

The value of the metallic production in San Juan County in 1908 showed a decrease of $724,252 as compared with that of 1907, but an increase over that of 1906. With the exception of gold, there was a decrease in yield of all the metals. The output of lead showed the greatest decline, from 12,483,507 pounds to 8,402,569 pounds, a difference of 4,080,938 pounds.

San Juan County continues to be second to Lake County in the production of copper and lead, the yield in each case being less than one-half of the output of Lake County.

The tonnage of siliceous ore mined was 180,487 short tons, as compared with 187,242 in 1907, a decrease of 6,755 tons. The copper ores decreased from 10,063 short tons to 2,149 tons, the lead ores from 35,201 tons to 19,513 tons, and the copper-lead ores decreased from 3,133 tons to 494 tons.

The average value per ton of siliceous ore in gold and silver was $6.89, of which $5.19 was gold; of copper ores, $24.24, of which

3.36 was gold; of lead ores, $11.75, of which $2.70 was gold; and copper-lead ores, $10.70, of which $1.91 was gold.

During 1908 there were treated at gold and silver mills 120,862 ns, and the bullion amounted to $387,459 in gold, an average of 3.21 per ton, and $2,351 in silver, an average of 2 cents per ton, a tal value in gold and silver of $389,810, and an average value of 3.23 per ton. From the ore treated at gold and silver mills, and om 77,370 tons sent to mills for concentration only, a total of)8,232 tons (97.8 per cent of all the tonnage mined) were produced ',346 tons of concentrates, valued at $584,759 in gold, an average $15.66 per ton, and $330,532 in silver, an average of $8.85 per n, a total in gold and silver of $915,291 and an average of $24.51 r ton.

There were produced from the ore to both classes of mills, from)th bullion and concentrates, $972,218 in gold, an average of $4.90 r ton, and $332,883 in silver, an average of $1.68 per ton, a total gold and silver of $1,305,101, and an average of $6.58 per ton for l ore milled.

Crude ore shipped to smelters amounted to 4,411 tons, containing 5,606 in gold, and averaging $5.81 per ton; $199,389 in silver, eraging $45.20 per ton—a total in gold and silver of $224,995, and a average of $51.01 per ton.

The average value in 1908 in gold, silver, copper, and lead of the ntire tonnage of 202,643 tons was $10.78, of which $4.92 was for)ld, $2.63 was for silver, $1.49 was for copper, and $1.74 was for ad.

Mining operations on the part of the regular shipping companies San Juan County were not as active in 1908 as in 1907. The rning of the Gold King surface buildings in June, 1908, and the recking of the Iowa mill by a snowslide in March lessened the oduction considerably. The Silver Lake mines were worked with reduced force during the latter part of the year. The harsh winter 1908–1909, with the closing of railroad transportation for some onths, prevented the shipment of ore and concentrates during that me. The Ross smelter was closed during the entire year.

That there was considerable progress in the county, notwithstand-g, is shown by the increase in number of producing mines to 42 1908 from 27 in 1907. The production from new shippers was in nall lots taken out in the course of development, and the aggregate d not greatly increase the output for the county.

Animas district.—There was little development done on the Aspen ine, and only a small tonnage was milled and smelted. The ore was illed in the plant of the Silver Lake mines. The Garfield Smelting ompany, controlling the Silver Lake mines, treated a slightly creased tonnage in the 300-ton concentrating plant, which was mpleted in 1907.

The Bullion King Mining Company, with a tunnel 4,000 feet long, which 1,508 feet were driven in 1908, shipped a small lot of ore for st purposes. The Congress Gold and Copper Company shipped veral cars during the year. The Ross Mining and Milling Company ade two large mill runs. Work was pursued steadily on a crosscut nnel to cut the Champion vein, 550 feet below the present workings. he Hercules Consolidated Mining Company, with a 160-ton concen-rating plant, made a greatly increased output. A smaller tonnage of

MY-1908-003

ore was treated by the Iowa Gold Mining and Milling Company from the Iowa and Tiger claims. The plant is a 150-ton concentrating mill, with crushers, coarse and fine rolls, jigs, Chile mill for regrinding, Wilfley tables, and a canvas slimes plant. The Iowa mine is developed by a tunnel 1,045 feet long to the shaft, which is 250 feet deep; the Tiger mine by a tunnel 1,340 feet long and a shaft 375 feet deep.

The Hamlet Mining and Milling Company, with a 50-ton concentrating mill, was operated part of the year. Lead-silver ore was shipped by the Little Nations Mining Company and by the Gold Tunnel and Railway Company. The latter company's 100-ton mill was idle the entire year.

The Contention Mining Company's property, under lease, and the mine and mill of the Old Hundred Mining Company, were operated for a part of the year. The latter mine is opened by 3 adit tunnels. The mill has 40 stamps, amalgamating plates, and concentrators. The Pride of the West mine was worked under lease, and ore was shipped. Other small producers were the Ridge, Dewey, Cambria, Ridgway group, and Arpad mines.

King Solomon district.—The operators of the Dives and Shenandoah No. 3 mines continued shipments from this district.

Eureka district.—The production of the Gold King Consolidated Mines Company, at Gladstone, was below that of 1907. In June, 1908, the upper terminal of the tramway and other surface buildings were burned, and the mill only commenced running in October. The Gold Prince mine and mill were in the hands of a receiver during the entire year and made no production. The Sunnyside Mines and Mill Company made an increased production. The Martin Gold Mining and Power Company, operating the Tom Moore, did considerable development work, and shipped lead-silver and zinc ores during the year. Small shipments were made from the Minnehaha and Tantallon mines.

The Kittimac Mines Company is developed by 2 tunnels, one 1,000 feet long and the other 1,500 feet. The company completed a 100-ton concentrating mill.

SAN MIGUEL COUNTY.

Mine production of gold, silver, and associated metals in San Miguel County, Colo., in 1907 and 1908.

Metal.	1907.		1908.		Increase (+) or decrease (−).	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Gold.....fine ounces..	119,366.09	$2,467,516	112,116.37	$2,317,651	−7,249.72	−$149,865
Silver.....do....	1,438,299	949,277	1,543,187	817,889	+ 104,888	− 131,388
Copper.....pounds..	14,905	2,981	382,402	50,477	+ 367,497	+ 47,496
Lead.....do....	5,274,641	279,556	5,555,049	233,312	+ 280,408	− 46,244
Zinc.....do....	.....	.....	952,872	44,785	+ 952,872	+ 44,785
	.....	3,699,330	.....	3,464,114	.....	− 235,216

As compared with that of 1907, the metal output of San Miguel County showed an increase in production of all the metals except gold. The total value of the metals produced, however, fell off $235,216.

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DEPARTMENT OF THE INTERIOR

UNITED STATES GEOLOGICAL SURVEY

GEORGE OTIS SMITH, DIRECTOR

U.S. Bureau of Mines

MINERAL RESOURCES

OF THE

UNITED STATES

CALENDAR YEAR

1909

PART I—METALS

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1911

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which was sufficient to cover the decrease in those metals in San Juan and San Miguel counties. Silver, copper, and zinc yields from the "San Juan" counties—Dolores, La Plata, Ouray, San Juan, and San Miguel—showed decreases. The "San Juan" district was heavily handicapped by a very severe spring and by washouts on the railroad in the summer and fall. Active shipping from Ouray, and more particularly from Silverton and Telluride, was not possible until after March, and Silverton was cut off from railroad transportation by washouts for forty-six days in July and August and again for nearly forty days in September and October. On September 5 the railroad between Telluride and Placerville was washed out by the bursting of the Trout Lake reservoir, which supplies the Telluride Power Company's electric plant. Several companies suspended operations for a short time because of shortage of coal and supplies. Transportation by railroad to Durango (to which point ore and concentrates are shipped) was resumed on October 25 and to the north on December 7, 1909. La Plata County's output, though small, showed a material increase.

Lower Clear Creek County and Gilpin County showed a decrease for 1909, but upper Clear Creek districts increased their yield. The breast of the Newhouse tunnel (from Idaho Springs, Clear Creek County, toward the Gunnell mines in Central City, Gilpin County) crossed the line of Nevada Gulch, in Gilpin County, at the close of the year, and the tunnel should reach completion before the end of 1910.

The yield from Mineral County (Creede) was slightly increased. In November, 1909, the Humphreys custom mill was started, and additional men were put at work on several properties to maintain a supply of ore to keep the mill running. Several other properties, however, have stopped work on company account and the mines have been left in charge of lessees.

Boulder County mines were somewhat more active than for several years past, and the output showed an increase. Chaffee County increased its yield in copper and zinc, but silver and lead outputs decreased, as did that of gold despite an increase in placer yield. Dolores County production fell off because of lessened operations at Rico. Eagle County mines were active under lease. Park County showed an increased production for all the metals except zinc. The yield from Pitkin County (Aspen) increased slightly. Both dredges and lode mines increased very considerably the yield of Summit County.

DREDGING IN COLORADO.

The dredges near Breckenridge, Summit County, produced roughly 20,000 fine ounces of gold in 1909, an increase of 14,000 fine ounces. There were 4 dredges in operation in 1909: The Colorado Gold Dredging Company had 1 dredge in Blue River and 1 in Swan River; the French Gulch Dredging Company operated in French Gulch on the Mecca placer; and the Reliance Gold Dredging Company also operated in French Gulch.

MY-1909-002

The following table shows the production of gold, silver, and associated metals in Colorado, by counties:

Mine production of gold, silver, copper, lead, and zinc in 1909 in Colorado, by counties.

County.	Producing mines.	Tonnage of deep mines.	Gold.		Silver.	
			Quantity.	Value.	Quantity.	Value.
		Short tons.	*Fine ounces.*		*Fine ounces.*	
Boulder	56	13,188	7,898.33	$163,273	48,183	$25,055
Chaffee	27	10,214	1,474.71	30,485	35,477	18,448
Clear Creek	150	116,753	25,948.69	536,407	448,535	233,238
Custer	9	5,871	617.94	12,774	14,796	7,694
Dolores	10	4,787	1,077.12	22,266	103,646	53,896
Eagle	16	11,526	2,578.77	53,308	126,214	65,111
Fremont, Grand, Jefferson, and Montezuma	4	6	66.28	1,370	17	9
Gilpin	244	111,118	42,923.67	887,311	172,010	89,445
Gunnison	18	9,071	5,248.35	108,493	37,423	19,460
Hinsdale	10	1,697	367.02	7,587	75,731	39,380
Lake	97	417,297	69,438.97	1,435,431	3,423,642	1,780,294
La Plata	10	4,135	6,149.38	127,119	74,152	38,559
Larimer	1	48	.....	.....	.....	.....
Mineral	7	64,941	5,264.41	108,825	891,185	463,416
Ouray	30	103,864	147,293.41	3,044,825	345,815	179,824
Park	16	15,046	26,699.18	551,921	102,375	53,235
Pitkin	12	112,448	36.04	745	700,038	364,020
Routt	5	24	162.59	3,361	3,446	1,792
Saguache	8	192	57.85	1,196	2,260	1,175
San Juan	40	187,041	33,053.04	683,267	793,637	412,691
San Miguel	40	423,609	110,539.34	2,285,051	1,344,152	698,959
Summit	32	31,098	21,902.56	452,766	99,763	51,877
Teller	83	575,670	554,893.81	11,470,673	60,017	31,209
Unapportioned	.....	97	42.67	882	1,119	582
Total	925	2,219,741	1,063,734.13	21,989,336	8,902,633	4,629,369

County.	Copper.		Lead.		Zinc.		Total value.
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
	Pounds.		*Pounds.*		*Pounds.*		
Boulder	16,485	$2,143	425,605	$18,301	.....	.....	$208,772
Chaffee	568,868	73,953	584,492	25,133	947,741	$51,178	199,197
Clear Creek	299,546	38,941	3,254,675	139,951	758,074	40,936	989,473
Custer	700	91	41,721	1,794	89,593	4,838	27,191
Dolores	43,538	5,660	462,373	19,882	167,574	9,049	110,753
Eagle	286,885	37,295	152,280	6,548	740,408	39,982	202,244
Fremont, Grand, Jefferson, and Montezuma	677	88	.....	.....	.....	.....	1,467
Gilpin	499,146	64,889	664,581	28,577	.....	.....	1,070,222
Gunnison	51,815	6,736	493,070	21,202	212,093	11,453	167,344
Hinsdale	714,569	92,894	106,327	4,572	.....	.....	144,433
Lake	5,182,608	673,739	21,073,992	906,182	38,637,315	2,086,415	6,882,061
La Plata	484	63	2,980	128	.....	.....	165,869
Larimer	.....	.....	.....	.....	30,722	1,659	1,659
Mineral	17,401	2,262	9,036,816	388,583	1,817,296	98,134	1,061,220
Ouray	984,269	127,955	2,813,932	120,999	19,148	1,034	3,474,637
Park	61,023	7,933	2,237,093	96,195	366,574	19,795	729,079
Pitkin	26,092	3,392	13,143,210	565,158	34,741	1,876	935,191
Routt	.....	.....	.....	.....	.....	.....	5,153
Saguache	3,769	490	83,463	3,589	.....	.....	6,450
San Juan	1,653,192	214,915	9,085,068	390,658	786,518	42,472	1,744,003
San Miguel	501,285	65,167	4,941,370	212,479	804,296	43,432	3,305,088
Summit	3,839	499	3,559,278	153,049	5,798,167	313,101	971,292
Teller	.....	.....	.....	.....	.....	.....	11,501,882
Unapportioned	5,855	761	5,464	235	.....	.....	2,460
Total	10,922,046	1,419,866	72,167,790	3,103,215	51,210,260	2,765,354	33,907,140

The total tonnage, by kinds of ore treated or sold in each county in 1909, is shown in the following table:

Roaring Fork (or Aspen) district.—The entire production of this county was from Aspen, with the exception of a small tonnage from Redstone. The Smuggler mine was the largest producer in the district, and the greater part of its tonnage was treated at the Smuggler mill. Considerable tonnages were shipped from the Aspen, Durant, Spar group, and Millinee group mines. Small tonnages were shipped from the Argentum-Juniata, Aspen Fraction, and Mineral Farm mines. Other mines from which ore was shipped were the Bonnybell and the Little Annie.

Lincoln district.—No production was made from the mines of this district, in the southeast corner of the county.

Columbia (or Ashcroft) district.—The Tam O'Shanter-Montezuma Company developed its mine, making no shipments in 1909.

RIO GRANDE COUNTY.

There was no output from Rio Grande County in 1909.

ROUTT COUNTY.

The output in 1909 from Routt County was valued at $5,153, as compared with $5,865 in 1908. Of the output in 1909, gold was valued at $3,361 and silver at $1,792.

Hahns Peak district.—A small tonnage of high-grade gold-silver ore was shipped from the Royal Flush group of the Hahns Peak Gold Mining and Milling Company.

Placer operations in 1909 were on the Nelson Bar and H. L. placers, in the Four Mile district; on the Housel-Melvin and Jack Rabbit placers, near Lay; and on the Nova Scotia (or Blackburn) placer, near Hahns Peak.

SAGUACHE COUNTY.

There was a small increase in the total output from Saguache County in 1909. The Bonanza district showed an increased tonnage of copper-lead or lead ore, carrying also gold and silver, mined and shipped from the Antoro, Mogul, and St. Joe mines. An increased tonnage was also shipped from the Independence mine at Crestone, in the Baca Grant district. This ore carried chiefly gold, with a small quantity of silver. Small tonnages were shipped from the Empress Josephine mine at Blake and from the Comet mine in the Embargo district.

SAN JUAN COUNTY.

Mine production of gold, silver, and associated metals in San Juan County, Colo., in 1908 and 1909.

Metal.	1908.		1909.		Increase (+) or decrease (−).	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Gold.....fine ounces..	48,269.74	$997,824	33,053.04	$683,267	− 15,216.70	−$314,557
Silver.....do....	1,004,287	532,272	793,637	412,691	−210,650	− 119,581
Copper.....pounds..	2,282,738	301,321	1,653,192	214,915	−629,546	− 86,406
Lead.....do....	8,402,569	352,908	9,085,068	390,658	+682,499	+ 37,750
Zinc.....do....	10,131	476	786,518	42,472	+776,387	+ 41,996
Total.....	.....	2,184,801	.....	1,744,003	.....	− 440,798

The value of the metallic production in San Juan County in 1909 showed a decrease from 1908 of $440,798 and was also below that of 1907. There was a material decrease in the output of gold, silver, and copper, but a considerable increase in the yield of lead and zinc.

San Juan County continued to rank second to Lake County in the production of copper, and ranked third in output of lead.

The siliceous ore amounted to 145,434 short tons, as compared with 180,487 tons in 1908. The copper ores decreased from 2,149 short tons to 1,015 tons, the lead ores increased from 19,513 tons to 37,767 tons, and the copper-lead ores increased from 494 tons to 2,825 tons. The zinc ores were from one mine and are included in the siliceous (or dry) ore.

The average precious-metal value per ton of siliceous ore was $5.19, of which $4.06 was gold; of copper ores, $67.18, of which $3.11 was gold; of lead ores, $4.49, of which $2.011 was gold; and of copper-lead ores, $36.64, of which $4.84 was gold.

During 1909 there were treated at amalgamation plants 127,774 tons, and the bullion amounted to $264,966 in gold, an average of $2.07 per ton, and $2,127 in silver, an average of $0.02 per ton—a total value in gold and silver of $267,093 and an average value of $2.09 per ton. From the ore treated at amalgamation mills and from 53,167 tons sent to mills for concentration only a total of 180,941 tons (96.7 per cent of all the tonnage mined) were produced 28,360 tons of concentrates, valued at $376,647 in gold, an average of $13.28 per ton, and $185,835 in silver, an average of $6.55 per ton—a total in gold and silver of $562,482 and an average value of $19.83 per ton. These concentrates also carried 1,346,718 pounds of copper, or an average of 2.37 per cent per ton and an average value per ton of $6.17; 7,149,924 pounds of lead, or an average of 12.61 per per cent per ton and an average value of $10.84 per ton; and 786,518 pounds of zinc, or an average of 1.39 per cent per ton and an average value of $1.50 per ton—a total average value per ton in all five metals of $38.34.

There were produced from the ore to both classes of mills—180,941 tons—from both bullion and concentrates, $641,613 in gold, an average of $3.545 per ton, and $187,962 in silver, an average of $1.038 per ton, a total in gold and silver of $829,575, and an average value of $4.583 per ton for all ore mined; and copper, lead, and zinc to the value of $524,991, an average of $2.90 per ton—a total average value per ton of $7.48.

Crude ore shipped to smelters amounted to 6,100 tons, containing $41,654 in gold, and averaging $6.83 per ton; $224,729 in silver, averaging $36.84 per ton—a total in gold and silver of $266,383 and an average of $43.67 per ton; and also contained 306,474 pounds of copper and 1,935,144 pounds of lead, the two combined valued at $123,052, or an average of $20.17 per ton—a total average value for the smelting ore of $63.84 per ton.

The average value in 1909 in gold, silver, copper, lead, and zinc of the entire tonnage of 187,041 tons was $9.323, of which $3.653 was for gold, $2.206 for silver, $1.149 for copper, $2.088 for lead, and $0.227 for zinc.

Added to a severe spring, which prevented early work and shipping, Silverton was cut off from railroad transportation by washouts for forty-six days in July and August and for nearly forty days in September and October.

MY-1909-003

Animas district.—The mines of this district are at or near Silverton. The principal producers being the Hercules and the Iowa and Gold Tiger. Next in point of tonnage were the Silver Lakes mines, whose ore was treated in a 300-ton concentration plant. The Dives and Shenandoah mines and the Highland Mary group produced a considerable tonnage of lead and copper ores carrying gold and silver. Other large tonnages were from the Aspen, North Star group, Old Hundred group, and Silver Queen mines.

The Champion group, Columbus, Esmeralda, Joe and John, Little Maud, Pride of the West, and Trilby group were also producers of importance. Small shipments were made from the Black Prince, Brooklyn, Gold Bug, Little Maud, Queen City, St. Paul group, Silver Star, and other mines.

Eureka district.—There were several producers in this district credited with large tonnages in 1909. These were the Kittimac mines, equipped with a 50-ton concentration mill; the Gold King group, with an 80-stamp, 300-ton amalgamation and concentration mill; the Gold Prince group, with a 100-stamp, 350-ton amalgamation and concentration mill; and the Sunnyside group, with a 40-stamp, 125-ton amalgamation and concentration mill. There was also a small production from the Sound Democrat mine and other mines.

SAN MIGUEL COUNTY.

Mine production of gold, silver, and associated metals in San Miguel County, Colo., in 1908 and 1909.

Metal.	1908.		1909.		Increase (+) or decrease (−).	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Gold.....fine ounces..	112,116.37	$2,317,651	110,539.34	$2,285,051	− 1,577.03	−$32,600
Silver.....do....	1,543,187	817,889	1,344,152	698,959	− 199,035	−118,930
Copper.....pounds..	382,402	50,477	501,285	65,167	+ 118,883	+ 14,690
Lead.....do....	5,555,049	233,312	4,941,370	212,479	− 613,679	− 20,833
Zinc.....do....	952,872	44,785	804,296	43,432	− 148,576	− 1,353
Total.....	.....	3,464,114	.....	3,305,088	.....	−159,026

The total value of the metallic production of San Miguel County in 1909 was $3,305,088, a decrease of $159,026. The decreases were in gold, silver, lead, and zinc. The lessened output from the Ophir (or Iron Springs) district and the Mount Wilson district caused the decrease in gold, silver, and lead, the zinc output coming from the Upper San Miguel district alone.

The output from 39 deep mines was 423,609 short tons, as compared with 428,231 tons from 25 mines in 1908. The average value per ton was $7.80, as compared with $8.08 in 1908, with $9.08 in 1907, with $10.31 in 1906, and with $9.58 in 1905. The average value per ton in gold in 1909 was $5.39 and in silver $1.65.

The tonnage of siliceous ore amounted to 420,625 short tons, being 99.29 per cent of the entire tonnage. Practically all the gold and silver produced came from this class of ore. The output of lead ores was 1,254 tons, of copper ores 19 tons, and of copper-lead ores 1,711 tons.

San Miguel County in 1909 ranked second to Teller County in tonnage mined, and third after Ouray and Teller in value of gold produced. In silver yield San Miguel was again second, with Lake County first. In total value of metals produced San Miguel County stood fourth, with Teller first, Lake second, and Ouray third.

During 1909 there were treated at amalgamation and cyanide mills 402,114 short tons, or 94.9 per cent of all the tonnage mined; and the bullion was valued at $1,659,383 in gold, an average of $4.126 per ton, and $98,566 in silver, or an average of $0.245 per ton, a total value in gold and silver of $1,757,949, or an average value of $4.371 per ton, as compared with $4.50 per ton in 1908. Therefore 59 per cent of the gold and silver produced in the county from all sources was recovered as bullion. From the ore treated at amalgamation and cyanide mills, and from 19,024 tons sent to mills for concentration or separation only, a total of 421,138 short tons, or 99.4 per cent of the total tonnage, there were produced 23,156 tons of concentrates, valued at $570,374 in gold, an average of $24.63 per ton, and $571,015 in silver, an average of $24.66 per ton, a total in gold and silver of $1,141,389, and an average of $49.29 per ton, as compared with $24.34 per ton in 1908; there were also recovered from the concentrates 357,452 pounds of copper, valued at $46,469, or an average of 0.77 per cent, and an average value of $2.007 per ton; 3,928,973 pounds of lead, valued at $168,946, or an average of 8.48 per cent, and an average value of $7.30 per ton; and 804,296 pounds of zinc, valued at $43,432, or an average of 1.74 per cent, and an average value of $1.876 per ton; a total average value for the concentrates of $60.47 per ton.

There were produced from all milling ore—421,138 tons—$2,229,757 in gold, from both bullion and concentrates, an average of $5.29 per ton, and $669,581 in silver, or an average of $1.59 per ton, a total in gold and silver of $2,899,338, and an average of $6.88 per ton; and also copper, lead, and zinc, with a combined value of $258,847, or an average of $0.62 per ton; a total average recovered value for all milling ore in gold, silver, copper, lead, and zinc of $7.50 per ton.

Crude ore to smelters amounted to 2,471 tons and contained $54,854 in gold, averaging $22.20 per ton; $29,376 in silver, averaging $11.89 per ton, a total in gold and silver of $84,230, and an average per ton of $34.09; and also contained 143,833 pounds of copper, averaging 2.91 per cent, and 1,012,397 pounds of lead, averaging 20.49 per cent, with a combined value for the two base metals of $62,231, an average value of $25.18 per ton—a total average value for the ore smelted of $59.27 per ton.

Upper San Miguel district.—The output from this district in 1909 was 395,462 tons of ore, and $2,200,883 in gold, 1,298,183 fine ounces of silver, 488,715 pounds of copper, 4,528,950 pounds of lead, and 804,296 pounds of zinc. The total value of the production was $3,177,648, as compared with $3,209,561 in 1908. Three large companies of this district furnished over 90 per cent of the total production, as in 1908 and 1907.

From the Argentine group of the Tom Boy Gold Mines Company (Limited) about the same tonnage was treated as in 1908. Zinc was again produced, the first recovery of this metal by this company being in 1908. The equipment of the 350-ton milling plant consists of 60 stamps with amalgamation plates, Frue vanners, Wilfley tables, and a roasting and magnetic separation plant. The output of the Smuggler-Union mines was somewhat less than in 1908. The equip-

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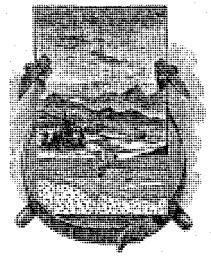
1910

PART I—METALS



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Cripple Creek district, despite a large tonnage of dump ore treated Cripple Creek and a considerable tonnage of old tailings treated Colorado Springs mills, showed a decrease of $468,420 in gold oduction as compared with the yield in 1909, and a decrease of ,738,034 as compared with that of 1908. Conditions during the ar in this district were as in 1909, several of the large companies orking a reduced force and awaiting for the completion of the osevelt drainage tunnel. The Stratton's Independence mill was erated at an increasing capacity on dump ore and the new Portad mill, at Victor, from July ran almost continuously on rock taken t in development work, supplemented by ore from the dump. ost of the smaller local cyanide mills were inactive during the year, e result being a reduced output from this source. The drainage nnel was completed as far as the original plans outlined, a distance 15,640 feet, in December, and the lowering of water was noticed many of the mines. The El Paso mine was connected with the nnel by crosscut, raise, and churn-drill hole, and the water was adually subsiding at the end of the year. Since the end of the year crosscut was run to cut the C. K. and N. vein, and the total length the tunnel in February, 1911, was 15,746 feet from the portal. ne United States Reduction & Refining Co. lowered its rates in ptember for the treatment of the higher grade ores of Cripple eek, this being the second reduction during the year. The Golden cle plant did not meet the cut, but the Portland mill reduced its tes for a time but again restored its former rates. The minimum arge of $4 on one-half ounce ore remained the same. The Stratn's Independence mill to date has treated $3 to $4 dump rock at cost of $1.50 per ton, not including depreciation and amortization.[1] o official statement as to the grade of rock treated and costs have een made by the Portland Co., except that much of the ore treated as taken out in development drifts, having been hitherto thrown n the dump and of too low a content to come within the one-half unce schedule

At Leadville an increased tonnage was shipped, sold, treated, or moved for treatment. Most of the ore came from the mines on or losely adjoining Breece and Iron hills and was either siliceous or ixed sulphide ores. Oxidized lead and iron-oxide ores, chiefly from 'ryer and Carbonate hills, showed a decrease in output, but the tonage of the newly discovered zinc carbonates came chiefly from the ines on these hills, beside a considerable tonnage of zinc sulphide re from Carbonate Hill mines. The Coronado and the Hibschle ines were the only mines operated in the Downtown district roper.[2] Of the tonnage of Leadville ores, 4 per cent was true lead xide ore, 4.6 was siliceous ore, 17.9 per cent iron-manganese fluxing re (carrying a little lead and silver), 1.8 per cent zinc-carbonate ore, nd 71.7 per cent mixed sulphide ores. The breast of the Yak tunnel assed the Resurrection No. 2 shaft and entered the territory of the Diamond mine, the shaft of which marks 3.46 miles from the portal. The Resurrection No. 2 mine was drained and the shaft sunk below he level of the tunnel.

The San Juan district showed a reduced yield in gold. Although La Plata County made a comparatively heavy increase in the output

[1] Argall, Philip Henry, Reduction of cyanide costs at Cripple Creek: Min. Science, Dec. 15, 1910, p. 567.
[2] The Downtown district of Leadville, Colo.; Bull. U. S. Geol. Survey No. 320, 1907.

MY-1910-002

of gold and San Juan and San Miguel counties yielded small increases in gold, the decrease of $848,978 (as compared with yield of 1909, which was above the average) in Ouray County made a total decrease in the yield of that metal for this region. Silver and copper production decreased, but there was a notable increase in the yield of lead and a marked increase in the output of zinc from the combined yields of Dolores, La Plata, Ouray, San Juan, and San Miguel counties of the San Juan district. The Camp Bird mine, in the Sneffels district, Ouray County, produced a tonnage equal to that of 1909, but the gold-bullion output was less, though the tonnage in concentrates increased. San Juan County mills were more active than in 1909, and there was more gold-silver bullion produced, as well as a greatly increased yield of lead and lead-zinc concentrates. An increased tonnage was mined and milled from the mines near Ophir and Telluride, San Miguel County. The Liberty Bell, Smuggler-Union, and Tomboy mines at Telluride, which yield 90 per cent and more of the yield of this county, all produced larger tonnages in 1910. La Plata County yielded a decided increase of gold-bearing ores, and the amount of development done promises an increased yield for 1911. Dolores County production again showed a decrease.

Hinsdale County also belongs to the San Juan group of counties. The yield of this county is chiefly copper, for which there was a decrease in 1910. Mineral County (Creede) is also in the San Juan,[1] but is usually considered alone. The ores are chiefly lead-zinc, or dry, carrying lead and zinc. There was an increased tonnage milled in 1910, with the chief increase in zinc recovery.

The mines of lower Clear Creek County and the Russell district in Gilpin County produced a slightly increased tonnage, but there was a slight decrease in tonnage from the upper Clear Creek mines. Gilpin County output, as a whole, shows a decided decrease. The Newhouse tunnel, from a point below Idaho Springs, Clear Creek County, under Russell Gulch and Quartz Hill, Gilpin County, was completed in November, 1910, when it reached a point under the Gunnell mines near Central City, the total length being 21,968 feet. The Central tunnel, starting above Idaho Springs, and the Lucania tunnel, also starting above Idaho Springs, near Fall River, were driven some distance during the year, in a general direction toward Central City. Operation of the Malm dry-chlorination mill at Georgetown was not begun in 1910.

Boulder County mines yielded a small increase in tonnage, but the total value of the output decreased. An increased tonnage was shipped to smelters from Chaffee County, with increase in the yield of gold, silver, and lead and decrease in the output of copper and zinc. The placer yield from Granite, Chaffee County, fell off slightly. Costilla County entered the producing list from operations of a dredge, near Russell. The yield from Custer County, which has been very small in recent years, fell off slightly. The total value of ore mined in Eagle County increased in value, the increase being almost entirely in zinc. A larger tonnage was treated in the mills of Gunnison County, with increases in output of gold, silver, and lead and small decreases in copper and zinc. A new smelter at Alma stimulated the output from the Consolidated Montgomery district in Park County,

[1] Cross, Whitman, Silverton folio (No. 120), Geol. Atlas U. S., U. S. Geol. Survey, 1905, p. 1.

; the Smuggler concentration mill. During the year the Free Silver ıaft was successfully unwatered, for the fourth time in two years, ith the aid of deep-sea divers and electric pumps. The Free Silver ıaft was started in 1894 to reach the Mollie Gibson and Smuggler ıdes at a depth of 1,500 feet and was completed to a depth of 1,200 ıet in 1897, but was closed down shortly thereafter and until recently as been filled with water. Ore from the Montrozonna mine was also ɔncentrated. There were large tonnages shipped from the Aspen, ɔurant, Spar group, Mineral Farm group, and Millinee group mines. ɔther mines from which ore was shipped were the Argentum-Juniata, .spen Fraction, and Pride of Aspen.

Ashcroft (or Columbia) district.—The Tam O'Shanter-Montezuma ɔ. operated its 100-ton concentration plant during the latter part of ıe year, making a lead concentrate, which was shipped, and a zinc ıiddling, which was stored for retreatment. The lead concentrate arries also silver and a little copper and gold.

Lincoln district.—No production was made from the mines of this istrict, which is in the southeast corner of the county.

RIO GRANDE COUNTY.

The only property upon which any work was done in Rio Grande ɔounty in 1910 was the Golconda mine, near Summitville.

ROUTT COUNTY.[1]

The total metallic yield in 1910 from Routt County was valued at $6,715, as compared with $5,153 in 1909 and with $5,865 in 1908. The output in 1910 was all placer gold (ranging in fineness from 0.642 ɔold and 0.349 silver in Hahns Peak district to 0.954 gold and 0.050 ɔilver in the Lay and the Four Mile districts), with a total of 323.58 ine ounces of gold, valued at $6,689, and 48 fine ounces of silver, valued at $26.

Four Mile district.—This district is in Colorado, near the Wyoming ine, near Baggs, Wyo. The Timberlake Mining Co. was the prin- ɔipal placer property in this district, working bench gravels by hydraulicking. Sluicing operations on the Nelson Bar placer and one other property yielded moderate quantities of placer bullion.

Hahns Peak district.[2]—Moderate quantities of gold were recovered by hydraulicking on the Leckenby-Brown (or Blackburn-Nova Scotia) placers, and by sluicing on the McIntosh placer, near Hahns Peak.

No ore was shipped from the Royal Flush deep mine, but much development work was done, work being continuous throughout the year.

Lay district.—Some gold was recovered from the Jack Rabbit placer, which is reported to be worked by a dredge.

Slater district.—Some development work was done on the mines near Slater, Colo. The properties lie immediately on the Colorado-Wyoming line.

Yarmony district.—A copper prospect was opened here in 1910, a 350-foot incline shaft being driven. It was reported that a consider- able tonnage of ore was blocked out.

[1] Four Mile and Lay districts are included in the new Moffat County, final organization of which did not take place until 1911.

[2] See George, R. D., and Crawford, R. D. The Hahns Peak region, Routt County, Colo.: First Report, 1908, Colorado Geol. Survey, 1909, pp. 189-229.

MY-1910-003

SAGUACHE COUNTY.

There were 296 tons of ore shipped from Saguache County in 1910, as compared with 192 tons in 1909, and the total value of output in 1910 was $11,407, as compared with $6,450 in 1909. There was a decrease in the output of gold, but increased yields of silver, copper, and lead.

Alder district.—There was a small shipment of lead ore from this district.

Baca Grant (or Crestone) district.—There were no shipments from this district in 1910, but there is some promise of the reopening of several properties.

Embargo district.—A small shipment of lead ore was made from the Comet mine.

Kerber Creek district.—This district lies near the town of Bonanza. Lead ores were shipped from the Antoro, Bonanza, and Mogul mines. The Rawley mine was actively developed during the year, about 1,100 feet of tunnels and drifts being driven and ore being put on the dump.

SAN JUAN COUNTY.

Mine production of gold, silver, copper, lead, and zinc in San Juan County, Colo., in 1909 and 1910.

Metal.	1909		1910		Increase (+) or decrease (−).	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Gold.....fine ounces..	33,053.04	$683,267	34,371.74	$710,527	+ 1,318.70	+$27,260
Silver.....do....	793,637	412,691	782,250	422,415	− 11,387	+ 9,724
Copper.....pounds..	1,653,192	214,915	1,208,496	153,479	− 444,696	− 61,436
Lead.....do....	9,085,068	390,658	10,688,386	470,289	+1,603,318	+ 79,631
Zinc.....do....	786,518	42,472	3,781,259	204,188	+2,994,741	+161,716
Total.....	.....	1,744,003	.....	1,960,898	.....	+216,895

The value of the metallic production of San Juan County in 1910 showed an increase of $216,895 over that of 1909, the only decrease in value being in the production of copper.

San Juan County, as in 1908 and 1909, ranked second to Lake in the production of copper, and third in the output of lead.

There were 53 producing properties in 1910 as against 40 in 1909, and the tonnage produced was 206,272 short tons as against 187,041 in 1909.

The siliceous ore output was 178,565 short tons, as compared with 145,434 tons in 1909. The copper ore production decreased from 1,015 tons to 157 tons, the lead ore decreased from 37,767 tons to 2,436 tons, and the copper-lead ore decreased from 2,825 tons to 1,999 tons. Ores, the contents of which were mainly valuable for lead and zinc, amounted to 23,115 tons in 1910, as against no ore of such classification in 1909, although there were zinc concentrates produced in 1909 from ore which was more valuable for the gold and silver content, the zinc recovered representing only a small content in the crude ore. In 1910 also there was much ore of chief value in gold and silver, from which much zinc was recovered in concentrates.

USGS-00006
Page 3 of 4

The average total metal value per ton of siliceous ore was $8.14, of which $3.77 was gold; of copper ores, $30.34, of which $15.33 was gold; of lead ores $59.55, of which $6.81 was gold; of copper-lead ores, $74.85, of which $1.60 was gold; and of lead-zinc ores $8.96, of which $0.63 was gold. During 1910 there were treated at amalgamation and cyanide mills 131,593 tons, and the bullion contained $288,448 in gold, an average recovery per ton of $2.192, and 5,752 ounces of silver valued at $3,106, an average recovery of $0.024 per ton, a total in gold and silver of $291,554, and an average value of $2.216 per ton. From the ore treated at amalgamation mills and from 68,627 tons sent to mills for concentration only, a total of 200,220 tons (97.1 per cent of all the tonnage mined), were produced 32,713 tons of concentrates, yielding $385,431 in gold, an average of $11.78 per ton, and 370,265 ounces of silver valued at $199,943, an average of $6.11 per ton—a total in gold and silver of $585,374 and an average value of $17.89 per ton. These concentrates also carried 997,273 pounds of copper, or an average of 1.52 per cent and an average value of $3.87 per ton; of lead, 8,571,423 pounds, or an average of 13.10 per cent and an average value of $11.53 per ton; and of zinc, 3,743,341 pounds, or an average of 5.72 per cent and an average value of $6.18 per ton—a total average value per ton in all five metals of $39.47.

There were produced from the ore to both classes of mills, 200,220 tons, from both bullion and concentrates, $673,879 in gold, an average of $3.366 per ton, and $203,049 in silver, an average of $1.014 per ton, a total in gold and silver of $876,928, and an average value per ton of $4.38 for all ore milled, and copper, lead, and zinc to the value of $705,937, an average of $3.53 per ton—a total value for all ore milled of $1,582,865, and an average value per ton of $7.91, as against $7.48 in 1909.

Crude ore shipped to smelters amounted to 6,052 tons, containing $35,768 in gold, and averaging $5.91 per ton; 406,218 ounces of silver valued at $219,358, averaging $36.25 per ton—a total in gold and silver of $255,126, and an average of $42.16 per ton; and also containing 211,223 pounds of copper, 2,116,963 pounds of lead, and 37,918 pounds of zinc, the three combined valued at $122,019, or an average of $20.16 per ton, a total average value per ton for the smelting ore of $62.32.

The average value in 1910 in gold, silver, copper, lead, and zinc of the entire tonnage of 206,272 tons was $9.50 per ton, of which $3.44 was for gold, $2.05 for silver, $0.74 for copper, $2.28 for lead, and $0.99 for zinc.

Animas district.—This district includes the mines in the immediate vicinity of Silverton and south and east of Animas River from Silverton to the town of Middleton. There were 37 producing mines, as compared with 31 in 1909. The Hercules was the principal producer in 1910, the mine furnishing a large tonnage to the 40-stamp plate-amalgamation and concentration mill. The ore as mined is a dry sulphide ore, the product from the mill being bullion and a lead concentrate carrying lead, copper, most of the silver, and over two-thirds of the gold. The Iowa-Tiger property was a large producer, the ore going to a 150-ton mill for concentration only. Next in point of tonnage were the Silver Lake mines, the ore of which—gold and silver bearing sulphides of copper and lead—was treated in the 200-ton unit of the Silver Lake mill. Gold and silver bearing sulphides of lead, copper, and zinc from the Aspen mine were milled in the 100-ton unit of the Silver Lake mill. A prominent producer in 1910, which was unproductive in 1909, was the Intersection Group. Heavy iron sulphides carrying gold and silver were treated in a 5-stamp amalgamation and concentration mill, the tailings being impounded for future cyanidation. Ore from the North Star was milled in an amalgamation and concentration mill, and ore from the Green Mountain and the Old Hundred mines was concentrated. Large shipments of crude ore were made from the Dives, Highland Mary, and Shenandoah mines, and shipments were made from the Trilby and the Pride of the West mines. Other mines producing small tonnages were the Arpad, Brooklyn, Buffalo Boy Group, Champion, and Queen City.

From the district there was sold or treated in 1910 a total of 107,534 tons, from which were recovered $260,112 in gold, 569,118 ounces of silver, 713,435 pounds of copper, 6,720,004 pounds of lead, and 180,223 pounds of zinc, with a total value for the five metals of $963,454. In 1909 the tonnage was 85,629 tons, carrying $228,204 in gold, 612,525 ounces of silver, 918,985 pounds of copper, 6,948,884 pounds of lead, with a total value for the four metals of $964,987.

Eureka district.—This district includes all the mines to the north of Silverton, extending to the northern boundary of San Juan County, and including Chattanooga, Gladstone, Animas Forks, and Eureka. There were 16 producing mines in 1910 as against 8 in 1909. There are several mills of large capacity in this district. Chief among these is the 40-stamp, 100-ton plate-amalgamation and concentration mill of the Sunnyside mines, the ore of which yields three-fourths of its gold contents and a small quantity of silver to the amalgamating plates, the remainder being recovered as lead and lead-zinc concentrates. The Gold King 80-stamp, 300-ton amalgamation and concentration plant was operated at partial capacity for about four months by the company, and for a shorter period by lessees, on ore from the Gold King mines, the bulk of the contents being recovered in the concentrates. Of the 100 stamps of the Gold Prince mill at Animas Forks 40 stamps, with the accompanying concentration tables, were operated for five months on ore from the Gold Prince mine, the product being gold-silver bullion, and lead and lead-zinc concentrates. The Ledge Consolidated mill, at Chattanooga, for concentration only, was operated from May to December on ore from the Silver Ledge mine, the product being lead and lead-zinc concentrates, carrying copper, gold, and silver, the chief value being, however, in the lead and zinc. The mine and 50-ton mill of the Kittimac mines were operated part of the year. Ore, the contents of which were more valuable for lead and zinc than for other metals, was treated in the Vermillion mill. The principal mines producing crude shipping ore only were the Bonner, the Congress, and the Esmeralda.

From the district there were sold or treated in 1910 a total of 98,633 tons, from which were recovered $444,450 in gold, 210,289 ounces of silver, 490,314 pounds of copper, 3,965,406 pounds of lead, and 3,601,036 pounds of zinc, with a total value for the five metals of $989,210. In 1909 the tonnage was 101,412 tons, carrying $455,063 in gold, 181,112 ounces of silver, 734,207 pounds of copper, 2,136,184 pounds of lead, and 786,518 pounds of zinc, a total value of $779,016.

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MY-1910-004

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OF THE

UNITED STATES

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1911

PART I—METALS

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Contents of zinc ores sold or treated in Colorado in 1911, by counties.

County.	Tonnage.	Gold.	Silver.	Copper.	Lead.	Zinc.
	Short tons.	*Fine ozs.*	*Fine ozs.*	*Pounds.*	*Pounds.*	*Pounds.*
Chaffee	398					200,509
Clear Creek	12,642	27.01	46,274		339,854	793,810
Fremont	231	.49	137	3,596		140,526
Gunnison	95					48,895
Lake	96,223	135.17	8,299	3,763	36,058	49,612,673
Park	628					407,772
Saguache	67		668	850	24,854	46,561
San Juan	372	1.87	591	3,674	6,241	24,438
Summit	189					113,681
Total	110,845	164.54	55,969	11,883	407,007	51,388,865

Contents of copper-lead ores sold or treated in Colorado in 1911, by counties.

County.	Tonnage.	Gold.	Silver.	Copper.	Lead.
	Short tons.	*Fine ozs.*	*Fine ozs.*	*Pounds.*	*Pounds.*
Chaffee	54		757	4,610	35,895
Clear Creek	86	155.56	1,397	7,293	43,668
Dolores	24	.47	292	1,478	4,268
Fremont	151	8.12	1,208	10,380	19,904
Gilpin	7	7.88	407	959	1,838
Hinsdale	32	5.09	2,572	1,834	6,179
Lake	232	100.28	7,355	17,683	27,875
Ouray	115	521.75	7,735	7,402	11,637
Park	4	.04	198	367	593
Saguache	31	14.88	385	2,447	23,547
San Juan	662	67.98	68,005	38,572	151,117
Total	1,398	882.05	90,311	93,025	326,521

Contents of lead-zinc ores sold or treated in Colorado in 1911, by counties.

County.	Tonnage.	Gold.	Silver.	Copper.	Lead.	Zinc.
	Short tons.	*Fine ozs.*	*Fine ozs.*	*Pounds.*	*Pounds.*	*Pounds.*
Clear Creek	16,667	854.93	84,536	30,918	860,044	623,734
Dolores	873	3.28	11,932	299	351,485	525,333
Eagle	27,592	87.97	7,856		541,833	5,097,597
Gunnison	803	12.06	13,800	3,564	281,157	508,561
Hinsdale	500	24.22	1,210	8,636	108,801	36,439
Lake	67,078	1,114.87	176,427	87,552	8,469,181	21,997,783
Mineral	45,528	7,609.49	57,265	19,649	6,537,493	1,258,561
Pitkin	4,740	10.51	9,455	7,408	279,814	
San Juan	11,568	209.38	9,703	2,809	979,806	614,870
Summit	39,036	288.64	103,865		5,277,983	7,561,494
Total	214,385	10,215.35	476,049	160,835	23,687,597	38,224,372

MINING INDUSTRY OF COLORADO IN 1911.

A review of the sources of the gold, silver, copper, lead, and zinc output of Colorado for 1910–11, according to the classes of ore and method of treatment, shows that in 1911, as compared with 1910, there was a smaller tonnage of ore sent to amalgamating, cyaniding, and chlorination mills, with less gold in bullion, but a slight increase in silver content. A slightly increased tonnage was sent to mills for concentration only, but the tonnage of concentrates from all classes of mills was less than in 1910, and the content of the concentrates was less in every metal except copper. With the exception of zinc carbonate ore, the tonnage of ore shipped directly to smelters decreased.

From a metallurgical standpoint, it was found that 77 per cent (as compared with 79 per cent in 1910 and with 76 per cent in 1909) of the tonnage was milled; that 10.9 per cent of this tonnage, or 8 per cent of the total tonnage, was the resulting tonnage in concentrates which were treated at smelters, and that 23 per cent of the ore (as compared with 21 per cent in 1910 and with 24 per cent in 1909) was sent crude direct to smelters, a total percentage treated by the smelters of 31 per cent (the same as in 1909 and in 1910) of the total tonnage. It is found, therefore, that smelters treating the same percentage of a smaller tonnage treated a decreased tonnage in 1911, and recovered 33 per cent of the gold, nearly 95 per cent of the silver, and all the copper, lead, and zinc, or 60 per cent of the total value of the metals from deep mines.

The smelting situation in 1911 in Colorado remained practically as it was at the close of 1910. The Globe, Leadville, and Pueblo smelters were operated continuously, but, as has been the case for several years, not at full capacity. Owing to the floods in the San Juan region and the consequent damage to the railroads, ore from Silverton, Rico, and Telluride was not available, and the Durango smelter was closed in November for the winter. The Salida smelter was active during the year. The semipyritic plant at Golden was in operation almost continuously until November, and treated a larger tonnage than in 1910. The United States Zinc Co.'s plant at Pueblo was steadily operated. The United States Smelting Co.'s zinc-oxide plant at Canon City, closed in October, 1909, was not reopened as a custom plant, but some experimental work toward the treatment of the slag dump was essayed at the beginning of 1912.

To the Salida plant of the Ohio & Colorado Smelting Co. have been added three Godfrey mechanical roadsters and Dwight-Lloyd sintering machines. The Huntington-Heberlein roasters are used at Leadville and Pueblo.

The following list gives the smelting plants in Colorado in 1911:

List of active smelting plants in Colorado in 1911.

City.	Plant.	Owner.
Denver	Globe	American Smelting & Refining Co.
Pueblo	Pueblo	Do.
Pueblo [a]	United States Zinc Co	Do.
Leadville	Arkansas Valley	Do.
Durango [b]	Durango	Ohio & Colorado Smelting & Refining Co.
Salida		North American Smelter & Mines Co.
Golden [c]		

[a] Zinc-copper ores.
[b] Temporarily closed, November, 1911.
[c] Closed, November, 1911.

The yield of gold from the Cripple Creek district decreased $439,600. Conditions in the district were much the same in 1911 as in 1909 and 1910. Although the Roosevelt tunnel, as originally planned, was completed early in 1911, the subsidence of the water was very slow and it became apparent that the tunnel must be driven farther. Work was resumed in October, with satisfactory results to all except those mines in the far eastern portion of the district. In March the Stratton's Independence mill reached a capacity of 10,000 tons of

MY-1911-002

dump ore per month, and in December the Portland mill, at Victor, reached over 12,000 tons. A new mill, using the Clancy process, was completed in December on the Ajax property.

The three custom mills at Colorado Springs did not yield as much bullion as in 1910. The Golden Cycle handled the bulk of the ore and the Portland and the United States Reduction and Refining Co.'s plants treated the remainder. The chlorination mill of the Portland plant was being gradually transformed to a cyanide plant. Both the chlorination and the cyanide plants of the United States Reduction & Refining Co. were closed at the end of the year. The use of chlorination in the mills of Colorado thus seems near the end.

Lake County (chiefly Leadville) produced a smaller tonnage, with comparatively small decreases in the yield of gold, silver, and lead, but an increase of 15,243,011 pounds of zinc, making a total increase for the county yield valued at $782,975. The tonnage of zinc carbonate produced, chiefly from Carbonate Hill, but also from Fryer, Breece, Iron, Printer Boy, and Rock Hills, increased from 8,059 tons in 1910 to 83,905 tons in 1911, but the output of zinc sulphide decreased from 163,218 tons to 79,376 tons. The tonnage of iron sulphide produced remained practically stationary, but the tonnage of lead and iron-manganese oxide ores decreased, while output of siliceous ores increased somewhat. The American Zinc Co.'s mill at the portal of the Yak tunnel was closed in July.

The San Juan region—Dolores, La Plata, Ouray, San Juan, and San Miguel Counties combined—showed a decreased yield in all the metals except zinc, San Juan County contributing most heavily to the decrease. For gold, San Juan County showed a decrease of $374,064, Ouray a decrease of $242,889, and La Plata $103,907. The Camp Bird mine, in the Sneffels district, Ouray County, produced a somewhat decreased tonnage, with a material decrease in gold-silver bullion and a decreased tonnage of concentrates. San Juan County output showed heavy decreases for all the metals. San Miguel County's output showed a comparatively small decrease for the year 1911 as compared with the output of 1910, but a considerable increase as compared with the yield of 1909. The upper San Miguel district, in which are the three large properties of the Liberty Bell, Smuggler-Union, and Tomboy Cos. (these yielding 90 per cent and more of the county yield), showed a slight increase for 1911. La Plata County's gold and silver yield showed a material decrease because of litigation between owners of two of its principal properties. Dolores County showed a small total increase for 1911, there being important increases for lead and zinc but decreases for the other metals. Hinsdale County, also part of the San Juan group of counties, showed a heavy decrease for all the metals except zinc; the output of copper, the chief metal produced in the county, fell off heavily. Mineral County (Creede), also part of the San Juan region,[1] has been considered alone. Silver, lead, and zinc yields decreased considerably, while gold made a comparatively large increase.

Boulder County increased the yield of gold bullion and also its ore and concentrate shipments, with an increase in total output. Clear Creek County showed an increased yield of the base metals but a decrease in gold and silver. The lower Clear Creek mines

[1] Cross, Whitman, Silverton folio (No. 120), Geol. Atlas U. S., U. S. Geol. Survey, 1905, p. 1.

showed an increase for all the metals and upper Clear Creek mines showed a decrease for all the metals except zinc. Owing to the closing of all but three custom amalgamating mills near Black Hawk, the Gilpin County bullion yield fell off considerably, but the tonnage of concentrates increased very heavily, particularly from the treatment of ore from the Russell district, the contents showing heavy gains in all the metals, resulting in appreciable increases in total metal output for the county.

The Pitkin County (Aspen) yield of lead and silver decreased. The Summit County gold output from dredge operations decreased, but the production of all the other metals showed an appreciable increase, particularly zinc. This county ranks second in zinc yield. Owing to decreased operations at the London mine, the metal output from Park County ore showed a considerable decrease, although there was an increase from hydraulic placer mines. The total value of the yield from Gunnison County showed a decrease, chiefly from a decrease in gold; lead and zinc yields showing increases. Eagle County's yield, chiefly zinc, showed a considerable increase, there being also increases in the yield of the other metals except copper. Chaffee County made a decreased production for 1911, all the metals except lead decreasing. The gold decrease from this county came from placer mines, owing to the closing of the Twin Lakes placer by injunction obtained by cities below the placer operations against the pollution of Arkansas River.

The following table shows the production of gold, silver, copper, lead, and zinc in Colorado, by counties:

Mine production of gold, silver, copper, lead, and zinc in 1911 in Colorado, by counties.

County.	Producing mines.	Tonnage of deep mines.	Gold.		Silver.	
			Quantity.	Value.	Quantity.	Value.
		Short tons.	*Fine ounces.*		*Fine ounces.*	
Boulder	115	15,816	7,893.54	$163,174	53,753	$28,489
Chaffee	19	7,459	3,178.92	65,714	92,098	48,812
Clear Creek	95	105,774	25,116.64	519,207	437,841	232,056
Costilla	3		1,056.12	21,832	96	51
Custer	8	3,670	268.96	5,560	13,179	6,985
Dolores	12	3,276	365.96	7,565	56,202	29,787
Douglas	2		8.03	166		
Eagle	11	33,177	1,991.12	41,160	116,109	61,538
Fremont	1	382	8.61	178	1,345	713
Gilpin	162	103,038	37,673.19	778,774	292,659	155,109
Gunnison	20	11,926	7,016.26	145,039	32,541	17,247
Hinsdale	6	723	185.27	3,830	7,753	4,109
Lake	94	438,419	54,830.26	1,133,442	3,007,296	1,593,867
La Plata	19	10,058	13,880.58	286,937	69,438	36,802
Mesa	1		1.35	28		
Mineral	9	65,932	8,668.61	179,196	545,319	289,019
Montezuma	2	1	.77	16	6	3
Moffat	4		239.07	4,942	21	11
Ouray	31	133,252	94,474.34	1,952,958	512,800	271,784
Park	25	5,780	2,846.00	58,832	69,072	36,608
Pitkin	11	88,823	26.22	542	450,772	238,909
Routt	1		56.74	1,173	26	14
Saguache	8	184	24.77	512	4,664	2,472
San Juan	38	108,088	16,276.40	336,463	325,604	172,570
San Miguel	28	429,354	118,414.31	2,447,841	1,000,834	530,442
Summit	44	55,904	13,750.16	284,241	182,957	96,967
Teller	92	756,900	510,968.34	10,562,653	57,783	30,625
Total	861	2,377,936	919,220.54	19,001,975	7,330,168	3,884,989

MY-1911-003

List of reduction mills in Colorado in 1911, by counties—Continued.

Name.	District.	Process.	Equipment.	Approximate maximum capacity per day.
MINERAL COUNTY.[a]				*Short tons.*
Amethyst	Creede	Concentration	Rolls, jigs (Hartz type), Card tables, Chilean mills, trough classifier, Callow tanks, canvas tables.	100
Humphreys	do	do	Crusher, coarse and fine rolls, trommels, 12 four compartment Hartz jigs, 3 Chilean mills, trough hydraulic classifier, and 12 Wilfley tables.	250–300
Ridge	do	do	No crusher, disintegrating screen, trommels, 3 four compartment Hartz jigs, 3 Wilfley tables.	50–60
MONTEZUMA COUNTY.				
Doyle [b]	La Plata	Cyanidation	Roaster, cyanide equipment.	50
OURAY COUNTY.				
Barstow	Red Mountain	Concentration	10 stamps	50
Atlas	Sneffels	Amalgamation	20 stamps (10 added late in 1911), plates, Wilfley tables, Callow settlers, Deister tables, Frue vanners, canvas plant.	100
Camp Bird	do	Amalgamation, concentration, cyanidation.	60 stamps (1,050-pound), silvered copper plates, 24 Frue vanners, Huntington mills, 11 Wilfley tables, cyanide mill (150 tons.) [c]	240
Revenue	do	Amalgamation, concentration.		
O. & N	Uncompahgre	do	One 3½-foot Huntington mill, plates, Wilfley table.	
Wanakah	do	Concentration	20 stamps	80
PARK COUNTY.				
Paris	Buckskin	Amalgamation	20 stamps, plates	50
PITKIN COUNTY.				
Smuggler	Aspen	Concentration	Crusher, rolls, Hartz jigs, pulverizers, classifiers, tables.	125
Tam O'Shanter[d]	Ashcroft	do	Crusher, rolls, trommels, Hartz jigs, tube mill, 5 concentrating tables, Frue vanners, Richards classifiers, Callow tanks.	100
PUEBLO COUNTY.				
U. S. Zinc Co	Pueblo	Magnetic separation		
SAGUACHE COUNTY.				
Rawley	Kerber Creek	Concentration	Crushers, rolls, jigs, tables.	80
SAN JUAN COUNTY.				
Silver Lake	Animas	do	Crushers, trommels, rolls, jigs, classifiers, Wilfley tables, Chilean mill, Wilfley tables, Frue vanners, canvas tables.	300
North Star	do	Amalgamation, concentration.		
Old Green Mountain.	Animas	Concentration	Crushers, 10 stamps, Wilfley tables.	50

[a] See Parmalee, H. C.—Zinc ore dressing in Colorado; the Creede district: Metall. and Chem. Eng., December, 1910, pp. 677–680.
[b] Idle in 1911.
[c] See description in Min. and Sci. Press, Dec. 31, 1911, p. 866.
[d] See Mines and Minerals, March, 1912, p. 492.

List of reduction mills in Colorado in 1911, by counties—Continued.

Name.	District.	Process.	Equipment.	Approximate maximum capacity per day.
SAN JUAN COUNTY—continued.				*Short tons.*
Green Mountain [a]	do	do	Crusher, rolls, trommels, jigs, 10 card tables.	100–180
Hercules	do	Amalgamation, concentration.	Blake crusher, rolls, trommels, jigs, Wilfley tables, 40 stamps, plates, Wilfley tables, Frue vanners.	140
Intersection	do	Concentration	5 stamps, 1 concentration table, 1 vanner.	20
Iowa-Tiger	do	do	Crushers, rolls, trommels, jigs, Chilean mill, Wilfley tables, canvas plant.	125
Old Hundred [a]	do	Amalgamation, concentration.	40 stamps, plates, tables	200
Kittimac	Eureka	Concentration		50–100
Ledge [b]	do	do	Blake crusher, rolls, trommels, Hartz jigs, Chilean mill, Callow tanks, Richards classifier, 20 Wilfley tables.	125
Gold King	do	Amalgamation, concentration.	Gates crusher, 80 stamps (950-pound), plates, 32 card tables, 4 tube mills.	300–400
Gold Prince	do	do	Gates crusher, 100 stamps, (950-pound), plates, classifiers, 70 card tables, 5 tube mills.	500
Sound Democrat	Eureka	do		30
Sunnyside	do	do	40 stamps, plates, Wilfley tables, Deister tables. Magnetic plant installed 1912; Ruggles-Coles dryer, trommels, Huff electrostatic machine.	100
Vermilion [b]	do	Concentration	Crusher, rolls, trommels, Hartz jigs, Chile mill, Richards classifier, Callow tanks, 2 Card tables.	75
SAN MIGUEL COUNTY.				
Butterfly-Terrible	Iron Springs	Amalgamation, concentration.	Thirty 1,050-pound stamps, plates, 9 Frue vanners.	75
Carribeau	do	Concentration	20 stamps	45
Lake Superior-Ophir.	do	Amalgamation, concentration.	20 stamps, plates, Wilfley tables.	100
Suffolk	do	Amalgamation	20 stamps, 1 Dorr classifier and 5 Dorr thickeners.	100
Alta	do	Concentration	30 stamps, Wilfley tables	150
Black Bear	Upper San Miguel.	Amalgamation, concentration.	20 stamps	100
Cimarron	do	do	40 stamps	200
Iona [a]	do	30 stamps		150
Japan Flora	do	Concentration	Rolls, trommels, jigs, Wilfley tables.	50
Junta	do	Amalgamation	Denver quartz mill	
Lewis	do	Concentration	Rolls, jigs, tables	50
Liberty Bell	Upper San Miguel (at Pandora).	Amalgamation, concentration, cyanidation.	80 stamps (850-lb.) (stamping in cyanide solution); amalgamation, regrinding in tube mills, concentrating and treating in cyanide plant; 2 Dorr classifiers and 7 thickeners. Moore filter. [c]	400
Nellie (Thomas mill).	Upper San Miguel.	Amalgamation	5 stamps, plates (Wilfley tables, 1912).	
Smuggler Union	Upper San Miguel (at Pandora).	Amalgamation, concentration, cyanidation.	140 stamps (1,040-lb.), classifying cones, Butters distributers, 2 Frue and 2 Gates vanners, Wilfley table, 106 canvas tables. [c] Cyanide leaching plant, 4 Dorr thickeners.	600

[a] Idle in 1911.
[b] For description, see Mines and Minerals, October, 1911, pp. 487–489.
[c] See description of mills, Min. and Sci. Press, Mar. 11, 1911, p. 360.

MY-1911-004

USGS-00007
Page 4 of 6

PITKIN COUNTY.

Mine production of gold, silver, copper, and lead in Pitkin County, Colo., in 1910 and 1911.

Metal.	1910		1911		Decrease (−).	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Gold.....fine ounces..	31.25	$646	26.22	$542	− 5.03	− $104
Silver.....do....	477,813	258,019	450,772	238,909	− 27,041	− 19,110
Copper.....pounds..	24,843	3,155	7,408	926	− 17,435	− 2,229
Lead.....do....	13,408,250	589,963	11,084,334	498,795	−2,323,916	− 91,168
Total.....	.....	851,783	.....	739,172	.....	−112,611

The production of both lead and silver in Pitkin County in 1911 decreased, with decrease also in the yield of the two less important metals of the county—gold and copper. The ore sold or treated in 1911 amounted to 88,823 short tons, against 89,037 tons in 1910 and 112,448 tons in 1909. The tonnage concentrated was larger than in 1910, but the tonnage sent crude to smelters decreased considerably.

Pitkin County maintained its place as fifth in rank in the production of silver, and was second to Lake County in the production of lead.

Ore carrying over 4.5 per cent lead carried 291,636 ounces of silver, and ore carrying lead under 4.5 per cent carried 149,681 ounces of silver. Lead-zinc ore carried 9,455 ounces of silver. The average content of all the ore sold or treated was 5.07 ounces of silver per ton and 6.24 per cent of lead.

Roaring Fork (Aspen) district.—The Aspen district furnishes the bulk of the tonnage from Pitkin County. From the Smuggler mine there was a decreased tonnage mined, the proportion of milling ore to smelting ore showing a considerable increase. Smelting ore was shipped from the Argentum-Juniata, Aspen, Durant, Millinee, Mineral Farm, and Spar group mines.

Ashcroft (or Columbia) district.—An increased tonnage from the Tam O'Shanter-Montezuma mine was treated in the 100-ton concentration plant on the property, lead concentrates being shipped and zinc middlings being held for re-treatment.

Lincoln district.—In Lincoln district, in the southeast corner of the county, a shipment of silver ore, carrying lead and a little gold, was made from the Ruby mine.

ROUTT COUNTY.

Hahns Peak district.[1]—Sluicing operations on the Blackburn placer produced an appreciable quantity of gold.

Much development was done on the Royal Flush deep mine.

Slater district.—Development work was done on the mines near Slater.

SAGUACHE COUNTY.

From 8 mines in Saguache County in 1911 there were produced 184 tons of smelting ore, with a total value for the five metals of $9,616, as compared with $11,407 in 1910. There were decreases in the output of all the metals except zinc, which was produced in this county for the first time.

[1] See George, R. D., and Crawford, R. D., The Hahns Peak region, Routt County, Colo.: First Rept. Colorado Geol. Survey, for 1908, 1909, pp. 189–229.

Crystal Hill district (Del Norte).—A small shipment was made from the Crystal Hill district in 1911.

Embargo district.—A small shipment of lead ore was made from the Comet mine.

Kerber Creek district (Bonanza).—Lead ores were shipped from the Antoro mines and the Saguache Mining Co.'s mines. Lead-zinc and lead ores were shipped from the Yellow Type mine. Copper-lead ore, from the Elizabeth mine, and copper and dry ores from the Shawmut mine, were shipped to smelters. Active development was done on the Rawley mine, developing ores carrying lead, zinc, copper, silver, and gold. There is an 80-ton concentration mill on this property.

SAN JUAN COUNTY.

Mine production of gold, silver, copper, lead, and zinc in San Juan County, Colo., in 1910 and 1911.

Metal.	1910		1911		Decrease (−).	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Gold.....fine ounces..	34,371.74	$710,527	16,276.40	$336,463	−18,095.34	−$374,064
Silver.....do....	782,250	422,415	325,604	172,570	− 456,646	− 249,845
Copper.....pounds..	1,208,496	153,479	470,912	58,864	− 737,584	− 94,615
Lead.....do....	10,688,386	470,289	6,933,822	312,022	−3,754,564	− 158,267
Zinc.....do....	3,781,259	204,188	2,224,351	126,788	−1,556,908	− 77,400
Total.....	.....	1,960,898	.....	1,006,707	.....	− 954,191

The yield of each of the five metals in San Juan County in 1911 showed material decrease, the decrease in total value being $954,191.

There were 37 producing mines in 1911, as against 53 in 1910. The output from deep mines was 108,088 short tons, as compared with 206,272 tons in 1910, a decrease for 1911 of 98,184 tons.

The siliceous-ore output was 82,333 tons, as compared with 178,565 tons in 1910. The copper-ore production decreased from 157 tons to 23 tons, the lead ore increased from 2,436 tons to 13,130 tons, and the copper-lead ores decreased from 1,999 tons to 662 tons. Ores mainly valuable for lead and zinc contents amounted to 11,568 tons in 1911, as against 23,115 tons in 1910. There were also 372 tons of zinc ore produced in 1911. The bulk of the zinc yield came from concentrates from ore chiefly valuable for its gold and silver content.

The average metal value per ton of siliceous ore was $7.82, of which $3.33 was gold; of copper ores, $44.96, of which $3.39 was gold; of lead ores, $16.83, of which $4.29 was gold; of zinc ores, $6.68, of which $0.11 was gold; of copper-lead ores, $74.12, of which $2.12 was gold; and of lead-zinc ores, $7.69, of which $0.37 was gold.

During 1911 there were treated at amalgamation and cyanide mills 62,473 tons, with an average recovery per ton in bullion of $1.90 in gold and $0.02 in silver. There were also 43,696 tons of ore sent to mills for concentration only, a total of 106,169 tons milled (98.2 per cent of all the ore mined) yielding 17,916 tons of concentrates averaging $11.03 per ton in gold, $6.06 in silver, $2.82 in copper, $16.52 in lead, and $7.08 in zinc, with a total gross value per ton of $43.51, as compared with $39.47 in 1910.

MY-1911-005

The milling ore averaged in value of recovered metals $2.98 per ton in gold, $1.03 in silver, and $4.46 in copper, lead, and zinc, a total of $8.47, as against $7.91 in 1910. Crude ore shipped to smelter—1,919 tons—averaged per ton $10.29 in gold, $32.72 in silver, and $12.66 in copper and lead, a total of $55.67 per ton, as compared with $62.32 per ton in 1910.

The value in 1911 in gold, silver, copper, lead, and zinc of the entire tonnage averaged $9.31 per ton, of which $3.11 was for gold, $1.60 for silver, $0.54 for copper, $2.89 for lead, and $1.17 for zinc.

Animas district (including the mines in the immediate vicinity of Silverton, and south and east of Animas River from Silverton to Middleton).—There were 25 producing mines in the Animas district in 1911, as compared with 37 in 1910. The Iowa-Gold Tiger group was the largest producer in 1911, the bulk of the ore being treated by concentration only. The second largest tonnage was from the Silver Lake mines, the bulk of this tonnage also being concentrated. A greatly decreased tonnage from the Hercules property was treated by amalgamation and concentration. Ore from the Intersection mine was treated by amalgamation and concentration, and ore from the North Star and the Old Green Mountain group mines was treated by concentration only. Lead ore was shipped from the Aspen and Dives mines, and copper-lead ore from the Highland Mary mine. Small shipments were made from the Big Giant, Brooklyn, Buffalo Boy, Champion, Kansas City, Queen City, Shenandoah, Slide, and other mines.

From the district there was sold or treated in 1911 a total of 34,849 tons of ore, from which were recovered $116,408 in gold, 184,736 ounces of silver, 330,175 pounds of copper, 3,032,488 pounds of lead, and 38,214 pounds of zinc, valued at $394,230, as compared with $964,987 in 1910.

Eureka district (north of Silverton, including Chattanooga, Gladstone, Animas Forks, and Eureka).—There were 12 producing mines in the Eureka district in 1911, as against 16 in 1910. Nearly all the ore in this district is milled. A large and increased tonnage was milled in the Sunnyside mill, which recovered about 60 per cent of the gold and a small quantity of silver on the amalgamating plates, the remainder being recovered as lead and lead-zinc concentrates. A zinc middling is also made, which was stored in 1911. In 1912 a new zinc plant was built, utilizing the Huff electrostatic machine. Lessees operating the Gold King mine and amalgamation and concentration mill marketed bullion and concentrates. Ore from the Silver Ledge mine, at Chattanooga, chiefly valuable for its lead and zinc contents, was treated by concentration only, the product being lead and lead-zinc concentrates. Ore of similar character, from the Bonanza mine, was also treated by concentration. Small outputs were made from the Esmeralda, Joe and John, Kittimac, Paris, and San Juan Queen mines.

From this district there were sold or treated in 1911 a total of 73,239 tons of ore, from which were recovered $219,826 in gold, 140,862 ounces of silver, 140,737 pounds of copper, 3,901,334 pounds of lead, and 2,186,137 pounds of zinc, valued at $612,245, as compared with $779,016 in 1910.

MY-1911-006

SAN MIGUEL COUNTY.

Mine production of gold, silver, copper, lead, and zinc in San Miguel County, Colo., in 1910 and 1911.

Metal.	1910		1911		Increase (+) or decrease (−).	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Gold.....fine ounces..	120,685.61	$2,494,793	118,414.31	$2,447,841	− 2,271.30	−$46,952
Silver.....do....	1,144,050	617,787	1,000,834	530,442	− 143,216	− 87,345
Copper.....pounds..	544,189	69,112	971,064	121,383	+ 426,875	+ 52,271
Lead.....do....	7,791,841	342,841	6,456,333	290,535	−1,335,508	− 52,306
Zinc.....do....	2,193,981	118,475	3,386,088	193,007	+1,192,107	+ 74,532
Total.....	.....	3,643,008	.....	3,583,208	.....	− 59,800

The value of the metallic production of San Miguel County in 1911 was $3,583,208, a decrease, as compared with the yield in 1910, of $59,800, but an increase, as compared with the output of 1909, of $278,120. The Upper San Miguel district showed a small increase in total value of output in 1911, but the Iron Springs and Lower San Miguel districts showed decreases.

The output from 28 mines was 429,354 tons of ore, as compared with 481,000 tons from 43 mines in 1910. The average value per ton in 1911 was $8.35, as compared with $7.57 in 1910, with $7.80 in 1909, with $8.08 in 1908, with $9.08 in 1907, with $10.31 in 1906, and with $9.58 in 1905. In 1911 the average content per ton in gold was $5.70 and 2.33 ounces of silver, as compared with $5.19 in gold and 2.38 ounces of silver in 1910.

The siliceous ore produced amounted to 428,043 tons, being 99.7 per cent of the entire output. Practically all the gold and the bulk of the silver came from this class of ore. The output of lead ores was 1,306 tons.

San Miguel County in 1911, in quantity of output, fell slightly behind Lake County, which was second to Teller County. In gold yield, San Miguel County maintained its place as second to Teller, and in silver, held second place after Lake County. In value of metals produced, San Miguel stood third, with Teller first, Lake second, and Ouray fourth.

During 1911 there were treated at amalgamation and cyanide mills 390,568 short tons of ore, or 91 per cent of all the ore mined; an average per ton of $4.83 in gold and $0.43 in silver was saved as bullion. The gold and silver saved as bullion in 1911 represented 69 per cent of the gold and silver produced in the county.

There were 37,438 tons of ore sent to mills for concentration only, a total of 428,006 tons milled (99.7 per cent of all the ore mined), which yielded 25,994 tons of concentrates, averaging $21.62 in gold, $11.94 in silver, $4.59 in copper, $9.94 in lead, and $7.42 in zinc, a total per ton of $55.51, as compared with $49.98 in 1910.

Milling ore averaged $5.71 in gold, $1.12 in silver, and $1.34 in copper, lead, and zinc, a total of $8.17 per ton, as compared with $7.46 per ton in 1910.

Crude ore shipped to smelters—1,348 tons—averaged $1.66 in gold, $37.42 in silver, $1.51 in copper, $23.90 in lead, or $64.49 per ton, as compared with $45.63 in 1910.

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UNITED STATES

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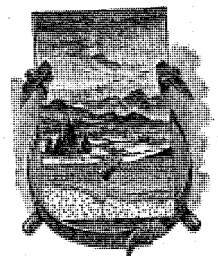
1912

PART I—METALS



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List of reduction mills in Colorado in 1912, by counties—Continued.

Name.	District.	Process.	Equipment.	Approximate maximum capacity per day.
SAN JUAN COUNTY.				
				Short tons.
Aspen (A)	Animas	Concentration	Jigs, tables, vanners, trommels; roll crushing classifiers, Wilfley tables, and regrinding in Chilean mill, Frue vanners, canvas tables.	150
Gold Tunnel (I)	do	do	Crusher, rolls, trommels, jigs, Chilean mill, Wilfley tables, Frue vanners.	100
Green Mountain (I)	do	do	Crusher, rolls, jigs, trommels, 10 Card tables.	100–180
Hamlet (I)	do	do	1 crusher, 2 Huntington mills, jigs, 5 Wilfley tables.	75
Hercules (I)	do	Amalgamation, concentration.	Blake crusher, rolls, trommels, jigs, Wilfley tables; 40 stamps, plates, Wilfley tables, Frue vanners.	140
Intersection (A)	do	do	1 Blake crusher, 10 stamps (750-pound), 1 classifier, 2 Frue vanners, 1 Wilfley, and 1 Overstrom table.	30
Iowa (A)	do	do	1 Blake crusher, 3 Chilean mills, 3 Watson classifiers, 11 Wilfley tables, canvas plant, Huntington mills, vanners.	150
Silver Lake (A)	do	Concentration	Same flow sheet as Aspen mill.	300
Kittimac (I)	do	do	1 Blake, 1 Samson, crusher, rolls, classifiers, 16 Card tables. Contemplate installation of Huff electrostatic separators and also cyanidation.	100
North Star (I)	do	Amalgamation, concentration.	20 stamps, tables	70
Old Green Mountain (A).	do	Concentration	1 Blake crusher, 10 stamps (800-pound, 110 drops per minute), 3 Wilfley tables, 1 jig, 1 trommel.	25
Old Hundred (I)	do	Amalgamation, concentration.	40 stamps, plates, tables, Huntington mills, vanners.	200
Frisco (B) [a]	Eureka	Concentration	Chilean mills, classifiers, concentrating tables.	150
Gold King (A)	do	Concentration, amalgamation.	Gates crusher, 80 stamps (950-pound), plates, 32 Card tables, 4 tube mills. Amalgamation not used 1912.	240
Gold Prince (I)	do	do	2 Gates crushers, 100 stamps (1,100-pound) plates, Richards classifiers, 14 Wilfley and 40 Card tables, 5 tube mills.	400
Ledge (A) [b]	do	Concentration	Blake crusher, rolls, trommels, Hartz jigs, Chilean mill, Callow tanks, Richards classifier, 20 Wilfley tables.	125
Sound Democrat (I)	do	Amalgamation, concentration.		30
Mogul (I)	do	Concentration	Crusher, rolls, jigs, Wilfley tables, roaster.	
Silver Wing (I)	do	Concentration		100
Sunnyside (A)	do	Amalgamation, concentration, and electrostatic separation.	1 crusher, 40 stamps (1,050-pound), 2 Richards classifiers, plates, 17 Wilfley tables, 4 Deister tables, Ruggles-Coles drier, trommels, Huff electrostatic machine installed 1912.	120
Vermilion (A) [a]	do	Concentration	Crusher, rolls, trommels, Hartz jigs, Chilean mill, Richards classifier, Callow tanks, 2 Card tables.	75
SAN MIGUEL COUNTY.				
Alta (A)	Iron Springs	do	1 crusher, 30 stamps (850-pound and 1,050-pound), 10 Wilfley tables, 10 Frue vanners, 1 James vanner.	150
Butterfly (A)	do	Amalgamation, concentration.	1 crusher, 30 stamps (1,050-pound), plates, 3 hydraulic classifiers, 9 Frue vanners.	75

[a] See Eng. and Ming. Jour., June 22, 1912, p. 1244. [b] See Met. and Chem. Eng., October, 1911, pp. 487–489.

List of reduction mills in Colorado in 1912, by counties—Continued.

Name.	District.	Process.	Equipment.	Approximate maximum capacity per day.
SAN MIGUEL COUNTY—continued.				
				Short tons.
Carribeau (I)	Iron Springs	Concentration	20 stamps concentrating tables.	45
Calumet (A) (Lake Superior-Ophir.)	do	Amalgamation, concentration.	1 Blake crusher, 20 stamps (1,050-pound), plates, 4 Wilfley tables.	100
Ophir (A) [a]	do	Cyanidation	1 crusher, 20 stamps (850-pound), 1 Hardinge tube mill, 1 Dorr classifier, 5 Dorr thickeners, 2 Dorr agitators. Continuous decantation. Remodeled from amalgamation and concentration.	150
Silver Bell (I)	do	Amalgamation, concentration.	1 crusher, 50 stamps, 18 vanners, 3 concentrating tables, 1 bumper table.	150
Florence L. (I)	Lower San Miguel.	Cyanidation	10 stamps, cyanide equipment.	30
Gertrude (I)	do	Concentration, cyanidation.	10 stamps, cyanide equipment.	40
Silver Pick (I)	Mount Wilson	Concentration	10 stamps, concentrating tables	25
Cimarron (A)	Upper San Miguel.	Amalgamation, concentration.	20 stamps (1,080-pound), Blake crusher, Richards classifier, 8 Wilfley tables.	120
Columbia (Iona) (I)	do	do	30 stamps, plates, concentrating tables.	150
Japan-Flora (I)	do	Concentration	Rolls, trommels, jigs, Wilfley tables.	50
Junta (A)	do	Amalgamation	1 crusher, 2 Denver quartz mills, 1 Wilfley table.	10
Lewis (A)	do	Concentration	1 crusher, 2 sets rolls, 1 tube mill, 1 Richards classifier, 1 Johnson vanner, 2 Frue vanners, 5 Wilfley tables, 2 Richards jigs.	50
Liberty Bell (A) [b] [c]	do (Panflora.)	Amalgamation, cyanidation, concentration.	2 Blake crushers, 80 stamps (850-pound), amalgamation in sodium cyanide solution. 3 Abbe tube mills, 4 Richards, 1 Akins, 2 Dorr classifiers, Dorr agitator, 12 cones, 18 Wilfley and 10 Deister tables. 7 Dorr thickeners, 6 agitators, 8 storage tanks. Moore vacuum-filter plant. In 1913 installed plant for cyanidation of concentrates by fine grinding and agitation by Dorr continuous decantation.	500
Mammoth (I)	do	Concentration	1 Blake crusher, 10 stamps (1,050-pound), 2 Frue vanners.	40
Nellie (A)	do	Amalgamation, concentration.	5 stamps, plates, Wilfley tables	20
Smuggler and Pandora (2 mills) (A). [b] [c]	do	Amalgamation, cyanidation, concentration.	140 stamps (1,040-pound), rolls, jigs, 2 tube mills, 18 Callow tanks, 4 Akins classifiers, 8 Dorr thickeners, 16 Frue vanners, 43 Triumph vanners, 24 Wilfley tables, 106 canvas tables, 6 percolation, 4 agitation tanks (15,000 tons per month), 5 Portland filters. Slime plant added in 1912.	700
Argentine (A) [c] [d] (Tomboy.)	do	Amalgamation, concentration.	1 Kennedy crusher, 60 stamps, (1,050-pound), 2 Hardinge tube mills, 4 Bunker Hill screens, 3 Akins classifiers, 12 Frue vanners, 34 Wilfley and 9 Deister tables, 4 Dorr thickeners, Moore filters, Ding electromagnetic separator (not used).	350

[a] See Eng. and Min. Jour., Feb. 15, 1913, p. 380, for flow sheet.
[b] See Twelfth Biennial Rept. Colorado State Bureau Mines, 1911–1912, 1913, pp. 70, 80.
[c] See Min. and Sci. Press, Mar. 11, 1911, p. 360; also Eng. and Min. Jour., Jan 4, 1913, p. 9.
[d] See Eng. and Min. Jour., Apr. 5, 1913, p. 730, for changes.

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Page 2 of 4

Pitkin County in 1912 produced 91,791 tons of ore, with a total value of the content for all five metals of $740,653, of which $165 was for gold, $325,030 for silver, $3,787 for copper, $378,240 for lead, and $33,431 for zinc. The silver yield increased but the lead output decreased. Zinc was again produced, after a lapse of two years. Both zinc sulphide and zinc carbonate ores were shipped. The tonnage of ore milled in Pitkin County decreased, but there were increased shipments of crude ore to smelters. The average content of all the ore sold or treated was 5.76 ounces of silver and 4.58 per cent of lead.

Pitkin County fell from fifth to sixth place in the yield of silver, and from second place after Lake to third place after San Juan in the yield of lead.

Roaring Fork (Aspen) district.—The Aspen district has always furnished the bulk of the ore from Pitkin County, and in 1912 there was no output from other districts. The Smuggler mine was the principal producing mine, with an increased tonnage of smelting ore and a decreased tonnage of milling ore. Smelting ore was shipped from the Argentum-Juniata, Aspen, Durant, Last Dollar, Millinee mines, and from the Varney tunnel.

Ashcroft (or Columbia) district.—The Tam O'Shanter-Montezuma mine was idle in 1912.

RIO GRANDE COUNTY.

Summitville district.[1]—Gold-copper ore was shipped from the Golconda mine.

ROUTT COUNTY.

Hahns Peak district.—Sluicing operations on the Leckenby-Blackburn placer produced an appreciable quantity of gold.

Considerable development work was done on the property of the Farewell Mountain Copper Co. Continuous development work was done on the Royal Flush mine, and a 400-ton concentrating mill is in prospect.

Slater district.—Assessment work was done on the mines near Slater.

SAGUACHE COUNTY.

Production of gold, silver, copper, lead, and zinc in Saguache County, Colo., 1904–1912.

Year.	Number of producing mines.	Tonnage.	Gold.	Silver.	Copper.	Lead.	Zinc.	Total value.	Average value per ton.
		Short tons.		*Fine ozs.*	*Pounds.*	*Pounds.*	*Pounds.*		
1904	5	499	$8,641	47,233	48,066	18,000	18,000	$43,380	$86.98
1905	4	496	699	4,401	1,135	203,797	.....	13,112	26.44
1906	7	999	7,628	737	.....	49,141	.....	10,923	10.93
1907	4	170	649	6,194	1,260	22,528	.....	6,183	36.37
1908	5	76	610	953	76	27,715	.....	2,289	30.12
1909	8	192	1,196	2,260	3,769	83,463	.....	6,450	33.59
1910	8	296	1,025	4,841	5,362	161,068	.....	11,407	38.54
1911	8	184	512	4,664	4,984	74,556	46,561	9,616	52.26
1912	12	9,459	3,805	19,309	29,479	504,845	534,928	80,172	8.48
Increase (+) or decrease (−)	+4	+9,275	+3,293	+14,645	+24,495	+430,289	+488,367	+70,556	−43.78

[1] See Conejos County.

Saguache County in 1912 produced 9,459 tons of ore, yielding $3,805 in gold; 19,309 ounces of silver, valued at $11,875; 29,479 pounds of copper, valued at $4,864; 504,845 pounds of lead, valued at $22,718; and 534,928 pounds of zinc, valued at $36,910; with a total value of $80,172, as compared with $9,616 in 1911.

Baca Grant (Crestone) district.—Small lots of ore were shipped from the Pelican and Sultan mines.

Cochetopa district.—Zinc sulphide ore was shipped from the Alaska mine.

Embargo district.—A small shipment of lead ore was made from the Comet mine.

Kerber Creek (Bonanza) district.—This was the principal producing district in Saguache County in 1912. From the Antoro mine, lead-zinc ore was concentrated into lead and lead-zinc concentrates at the Kortright mill, and lead ore was shipped to smelters. Lead ore and lead concentrates were the products from operations on the Erie and Superior mine. A large tonnage of lead-zinc ore from the Bonanza mine was concentrated into lead and lead-zinc concentrates. Copper-lead ore from the Elizabeth, lead ore from the Jupiter and from the Empress Josephine, and dry ore from the Horrigan-Page mine, were shipped to smelters. An adit, 6,235 feet long, which the Rawley Mining Co. has been driving[1] continuously for several years, was completed in 1912 and some ore was placed on the dump. There is an 100-ton concentrating plant on this property.

SAN JUAN COUNTY.

Production of gold, silver, copper, lead, and zinc in San Juan County, Colo., 1904–1912.

Year.	Number of producing mines.	Tonnage.	Gold.	Silver.	Copper.	Lead.	Zinc.	Total value.	Average value per ton.
		Short tons.		*Fine ozs.*	*Pounds.*	*Pounds.*	*Pounds.*		
1904	31	233,663	$1,736,229	1,584,938	3,575,219	10,303,414	1,384,340	$3,610,509	$15.45
1905	20	204,139	1,050,971	750,844	1,675,858	8,045,126	248,627	2,158,705	10.57
1906	26	196,438	900,175	690,076	1,549,663	4,515,317	584,476	1,954,637	9.94
1907	27	235,639	967,732	1,175,176	2,450,280	12,483,507	237,677	2,909,053	12.35
1908	42	202,643	997,824	1,004,287	2,282,738	8,402,569	10,131	2,184,801	10.78
1909	40	187,041	683,267	793,637	1,653,192	9,085,068	786,518	1,744,003	9.32
1910	54	206,272	[a] 710,257	[a] 782,250	1,208,496	10,688,386	3,781,259	1,960,898	9.50
1911	38	108,088	[a] 336,463	[a] 325,604	470,912	6,933,822	2,224,351	1,006,707	9.31
1912	41	140,917	523,574	714,974	1,063,291	9,114,334	2,478,594	1,719,894	12.21
Increase (+)	+3	+32,829	+187,111	+389,370	+592,379	+2,180,512	+254,243	+713,187	+2.90

[a] Includes placer production.

San Juan County in 1912 produced 140,917 tons of ore, with a gross value for all five metals of $1,719,894, of which $523,574 was for gold; $439,709 for silver; $175,443 for copper; $410,145 for lead; and $171,023 for zinc.

During 1912 there were treated at amalgamation and cyanide mills 44,774 tons of ore, with an average recovery per ton in bullion of $2.16 in gold and 0.04 ounce silver; there were also 89,522 tons sent to

[1] Simonds, F. M., and Burns, E. Z., A problem in mining, together with some data on tunnel driving: Bull. Trans. Am. Inst. Min. Eng. No. 75, March, 1913, pp. 369–402.

MY-1912-003

USGS-00008
Page 3 of 4

mills for concentration only, a total of 134,296 tons (95.3 per cent of all the ore mined) yielding 20,693 tons of concentrates averaging $17.39 per ton in gold, 14 ounces of silver, and also copper, lead, and zinc, with a total gross value per ton of $55.85. Crude ore shipped to smelters—6,621 tons—averaged per ton $10.18 in gold, 64 ounces of silver, and $21.13 for copper, lead, and zinc, a total of $70.67, as compared with $55.67 in 1911.

Animas district (including the mines in the immediate vicinity of Silverton, and south and east of Animas River from Silverton to Middleton).—This district in 1912 produced 58,176 tons of ore, yielding $114,567 in gold, 530,753 ounces of silver, 591,992 pounds of copper, 4,280,176 pounds of lead, and 126,053 pounds of zinc, with a total value of $739,965, as against $394,230 in 1911.

There were 26 producing mines in the Animas district, as compared with 25 in 1911. The principal producing mine in 1912 was again the Iowa-Gold Tiger group, with an output entirely in lead concentrates. The second largest output was from the Silver Lake mines, the bulk of the ore also being concentrated into lead concentrates. Ore from the Intersection mine was treated by amalgamation and concentration, and ore from the Old Green Mountain mine was concentrated. Ore from the Aspen mine was concentrated or shipped to smelters. Lead ore from the Dives, and copper-lead ores from the Highland Mary mine, were shipped to smelters. Small shipments were made from the Alice, Bonner, Brooklyn, Buffalo Boy, Champion, Kansas City, Kittimac, North Star, Pokeepsie, Potomac, Queen City, Shenandoah, and other mines.

Eureka district (north of Silverton, including Chattanooga, Gladstone, Animas Forks, Eureka).—This district in 1912 produced 82,585 short tons of ore, yielding $388,166 in gold, 179,368 ounces of silver, 469,540 pounds of copper, 4,806,639 pounds of lead, and 2,352,541 pounds of zinc, with a total value of $954,575, as compared with $612,245 in 1911.

There were 15 producing mines in 1912, as against 12 in 1911. Nearly all the ore of this district was milled. The largest tonnage in the district was mined at the Sunnyside mine, and milled at the Sunnyside mill, where over one-half of the recovered gold and a small quantity of silver were recovered on the amalgamating plates, the remainder of the product being lead and lead-zinc concentrates and iron-zinc middlings. In 1912, the Huff electrostatic separating machine was installed for separating the iron from the zinc in the zinc middlings.[1] A large and increased output was mined from the Gold King mine, by lessees. The bulk of this ore was concentrated and a small part sent to smelters. Lead and zinc concentrates were the product from the concentration of ore from the Silver Ledge mine, at Chattanooga. Lead-zinc ore and lead-zinc concentrates were marketed from the Vermilion mine. Copper-lead ore was shipped from the Congress mine. Other producing mines were the Esmeralda, Bagley tunnel, Joe and John, San Juan Queen, Scotia, and Silver Doctor.

[1] For description, see Eng. and Min. Jour., July 20, 1912, p. 105.

SAN MIGUEL COUNTY.[1]

Production of gold, silver, copper, lead, and zinc in San Miguel County, Colo., 1904–1912.

Year.	Number of producing mines.	Tonnage.	Gold.[a]	Silver.[a]	Copper.	Lead.	Zinc.	Total value.	Average value per ton.
		Short tons.		*Fine ozs.*	*Pounds.*	*Pounds.*	*Pounds.*		
1904	25	231,316	$1,728,838	1,329,184	245,709	6,184,375	.....	$2,791,077	$11.77
1905	19	291,338	1,711,853	1,275,079	17,721	6,970,152	.....	2,812,362	9.58
1906	21	386,735	2,447,790	1,672,522	70,725	7,158,189	.....	3,990,047	10.31
1907	29	407,491	2,467,516	1,438,299	14,905	5,274,641	.....	3,699,330	9.08
1908	26	428,231	2,317,651	1,543,187	382,402	5,555,049	952,872	3,464,114	8.08
1909	40	423,609	2,285,051	1,344,152	501,285	4,941,370	804,296	3,305,088	7.80
1910	43	481,000	2,494,793	1,144,050	544,189	7,791,841	2,193,981	3,643,008	7.57
1911	28	429,354	2,447,841	1,000,834	971,064	6,456,333	3,386,088	3,583,208	8.35
1912	26	455,692	2,399,234	1,153,709	845,497	7,429,622	2,943,783	3,785,726	8.31
Increase (+) or decrease (—).	—2	+26,338	—48,607	+152,875	—125,567	+973,289	—442,305	+202,518	—.04

[a] Includes placer production.

The value of the metallic production of San Miguel County in 1912 was $3,785,726, of which $2,399,234 was for gold, $709,531 for silver, $139,507 for copper, $334,333 for lead, and $203,121 for zinc. All the districts showed an increase in total value of output.

In point of tonnage mined in 1912, San Miguel County stood third after Teller and Lake. In gold yield, San Miguel maintained its place as second to Teller, and in silver, held second place after Lake County. In total gross value of metals produced, San Miguel stood third, with Lake first, Teller second, and San Juan fourth.

During 1912 there were treated at amalgamation and cyanide mills 418,886 short tons of ore, or 92 per cent of all the ore mined; and an average of $3.58 in gold and 0.73 ounce of silver per ton was saved as bullion. The gold saved as bullion in 1912 represented 63 per cent of the gold produced in the county, and the silver in bullion represented 26 per cent of the county silver output.

There were 35,600 tons of ore sent to mills for concentration only, a total of 454,486 tons milled (99.7 per cent of all the ore mined), which yielded 31,154 tons of concentrates, averaging $28.65 in gold, $16.43 in silver, and $20.79 in copper, lead, and zinc, a total per ton of $65.87, as compared with $55.51 in 1911.

Crude ore to smelters—1,210 tons—averaged $5.18 in gold and 58.3 ounces silver per ton, and 0.5 per cent copper and 24.8 per cent lead, with a total value per ton of $65.17, as compared with $64.49 in 1911.

Upper San Miguel district.—The Upper San Miguel district in 1912 produced 403,806 tons of ore, yielding $2,275,883 in gold, 987,204 ounces of silver, 786,829 pounds of copper, 6,255,953 pounds of lead, and 2,943,783 pounds of zinc, with a total value of $3,497,479, as compared with $3,323,133 in 1911. Three large companies, the Liberty Bell, the Smuggler Union, and the Tomboy, furnished more than 90 per cent of the total output.

[1] Hess, F. L., Notes on the vanadium deposits near Placerville, Colo.: Bull. U. S. Geol. Survey No. 530, 1912, pp. 142–156.

MY-1912-004

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CALENDAR YEAR

1913

PART I—METALS

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The Golden Cycle and Portland cyanidation mills at Colorado Springs were operated steadily. The Portland, Stratton's Independence, Ajax, and several other cyanidation plants in the district were operated continuously. The Standard chlorination and cyanidation plant at Colorado City was idle; but the Union cyanidation plant, at Florence, was operated part of the year on old tailings. The public report of the Portland Co. for 1913 shows that a total of 178,162 tons of an average assay value of $2.95 per ton was treated at the Portland Co.'s Victor mill with satisfactory net earnings. The Stratton's Independence report shows a recovery of 78.48 per cent on ore averaging $3.076 per ton, the cost of working the mill being $1.46 per ton.

Lake County (chiefly Leadville, but for 1913 including the new Lackawanna district, in addition to Big English Gulch and Sugar Loaf districts), produced $1,023,631 in gold, 3,400,318 ounces of silver (which represents 36 per cent of the State yield), 1,923,987 pounds of copper, 29,286,183 pounds of lead, and 93,842,857 pounds of zinc (representing 79 per cent of the State yield), with a total value of $9,919,433, as against $11,780,131 in 1912. The output of zinc carbonate was 135,760 tons of 27.45 per cent zinc, as against 142,782 tons of 29.2 per cent zinc in 1912. The quantity of zinc sulphide shipped was 95,932 tons of 23 per cent zinc, as compared with 104,148 tons of 24 per cent zinc in 1912. Other classes of ore from Leadville showed little change from 1912. The zinc carbonate ore was treated at zinc oxide plants and zinc smelters in Kansas, Oklahoma, Illinois, and Wisconsin. The larger part of the zinc and zinc-lead sulphide ore was first treated at the sulphuric-acid plant and magnetic separation and wet-concentration plant of the Western Chemical Co., at Denver; at the magnetic separation plant of the Empire Zinc Co., at Canon City; at the magnetic plant of the United States Zinc Co., at Pueblo; a small tonnage being also treated at the Leadville district mill by wet concentration, at Leadville. Zinc concentrates and the remainder of the zinc and zinc-lead sulphide ores were treated at sulphuric-acid plants, zinc oxide plants, and zinc smelters in Colorado, Kansas, Oklahoma, Illinois, Ohio, West Virginia, and Wisconsin. Lead and iron concentrates from the milling plants, and residues from the sulphuric-acid plants and zinc smelters were (in some cases) returned to lead smelters in Colorado, where were recovered part of the gold, silver, copper, and lead contained in the original ores.

The San Juan region of Dolores, La Plata, Ouray, San Juan, and San Miguel counties producted $4,071,683 in gold, 2,769,077 ounces of silver, 3,373,935 pounds of copper, 21,740,502 pounds of lead, and 6,867,410 pounds of zinc, with a total value of $7,608,323, as compared with $4,115,345 in gold, 2,562,096 ounces of silver, 3,000,173 pounds of copper, 20,752,156 pounds of lead, and 6,375,073 pounds of zinc, with a total value of $7,559,790 in 1912. There was an increase for gold of $4,876 in Dolores, $177,500 in La Plata, and $134,038 in San Juan; and a decrease of $90,213 in Ouray and of $269,863 in San Miguel. There was an increase for silver of 78,528 ounces in Dolores, 165,435 ounces in San Juan, and 73,174 ounces in La Plata, and a decrease of 102,613 ounces in San Miguel County. Dolores County (Rico) made a large increase in the yield of copper, lead, and zinc, but the production of lead fell off heavily in San Miguel and Ouray counties.

Chaffee County produced $312,892 in gold, 168,985 ounces of silver, 315,011 pounds of copper, 3,196,545 pounds of lead, and 2,121,947 pounds of zinc, with a total value of $723,263, as compared with $279,387 in 1912.

Boulder County's yield of gold bullion decreased almost one-half and there was also a decrease of 1,900 ounces of gold in ore smelted, but the silver output increased 90,049 ounces, and the lead 103,678 pounds. The total value for 1913 was $189,330, as compared with $181,333 in 1912.

Clear Creek County's output was $432,489 in gold, 408,527 ounces of silver, 426,393 pounds of copper, 3,999,614 pounds of lead, and 1,489,518 pounds of zinc, with a total value of $1,004,726, as compared with $1,028,166 in 1912. Gilpin County's output decreased $217,404 in gold and 42,998 ounces of silver, with decreases for lead and copper, the total value being $1,035,740, as compared with $1,330,796 in 1912. Ore mined in Gilpin County through the Newhouse tunnel has been accredited to Gilpin County.

The Pitkin County (Aspen) yield was 562,308 ounces of silver and 17,528,386 pounds of lead, an increase of 33,804 ounces and 9,123,053 pounds, respectively.

Creede (Mineral County) produced $50,282 in gold, 805,343 ounces of silver, 31,647 pounds of copper, 3,398,364 pounds of lead, and 454,875 pounds of zinc, with a total value of $716,615, as compared with $808,771 in 1912. The output of Hinsdale County showed a decrease of 475,482 pounds of lead. Owing to the closing of the Gold Links mine at Ohio, Gunnison County's output of bullion, ore, and concentrates showed a heavy decrease for gold. Lead and zinc production also decreased, but there was an appreciable increase in silver output, owing to the opening of mines at Whitepine and on Italian Mountain. The output of placer gold from dredges and other placer operations at Breckenridge, Summit County, was $386,196, as compared with $392,739 in 1912, but the yield of considerable high-grade ore from pocket mines at Breckenridge and increased content of gold in smelting ore and concentrates from Kokomo, Breckenridge, and Montezuma combined gave a total yield of gold for the county of $462,228, as against $426,015 in 1912. Silver and copper yields also increased, but the yield of zinc decreased, owing to the closing of the wet mill of the Wellington Co. during the latter part of the year, although the magnetic plant continued to be operated. The output of Eagle County, from Red Cliff and from Eagle (a new producing silver district in 1913, with a yield of 181,141 ounces), was $41,220 in gold, 301,380 ounces of silver, 41,368 pounds of copper, 1,351,205 pounds of lead, and 6,683,643 pounds of zinc, with a total value of $663,403, as against $620,571 in 1912. Park County's output of silver, lead, and copper increased, more than balancing an appreciable decrease in gold.

The following table shows the production of gold, silver, copper, lead, and zinc in Colorado, by counties:

MY-1913-002

mills and to smelters increased. The average content of the ore sold or treated (deducting the tonnage of zinc ore), was 4.96 ounces of silver and 7.73 per cent of lead.

Pitkin County regained fifth place in yield of silver and second to Lake County in the yield of lead.

Aspen (Roaring Fork) district.—At Aspen are located all the large producing mines in Pitkin County. The Smuggler was the principal producing mine, with an increased tonnage of milling ore and a heavily increased tonnage of smelting ore. Smelting ore was shipped from the Argentum-Juniata, Aspen, Della S., Durent, Millinee, Little Annie, and Spar Consolidated mines.

Ashcroft (or Columbia) district.—A shipment of lead-silver ore was made from the Tam O'Shanter-Montezuma mine.

RIO GRANDE COUNTY.

Summitville district.[1]—Gold-silver-copper ore was shipped from the Golconda mines

ROUTT COUNTY.[2]

Hahns Peak district.—A small quantity of placer gold was produced in 1913.

Several tons of ore, carrying very appreciable quantities of gold and silver, were shipped from the Royal Flush mine. Work on a 400-ton concentration mill was started in June and carried on continuously to December. Total development consists of 8,410 feet, of which 783 feet was driven in 1913. Several tons of lead ore were shipped by the Steamboat Mines Corporation.

Slater district.—Assessment work was done on the mines near Slater.

SAGUACHE COUNTY.

Production of gold, silver, copper, lead, and zinc in Saguache County, Colo., 1904–1913.

Year.	Number of producing mines.	Tonnage.	Gold.	Silver.	Copper.	Lead.	Zinc.	Total value.	Average value per ton.
		Short tons.		*Fine ozs.*	*Pounds.*	*Pounds.*	*Pounds.*		
1904	5	499	$8,641	47,233	48,066	18,000	18,000	$43,380	$8.968
1905	4	496	699	4,401	1,135	203,797	.....	13,112	26.44
1906	7	999	7,628	737	.....	49,141	.....	10,923	10.93
1907	4	170	649	6,194	1,260	22,528	.....	6,183	36.37
1908	5	76	610	953	76	27,715	.....	2,289	30.12
1909	8	192	1,196	2,260	3,769	83,463	.....	6,450	33.59
1910	8	296	1,025	4,841	5,362	161,068	.....	11,407	38.54
1911	8	184	512	4,664	4,984	74,556	46,561	9,616	52.26
1912	12	9,459	3,805	19,309	29,479	504,845	534,928	80,172	8.48
1913	10	980	4,243	8,694	13,277	336,886	32,964	28,221	28.80
Increase (+) or decrease (−)	−2	−8,479	+438	−10,615	−16,202	−167,959	−501,964	−51,951	+20.32

Saguache County in 1913 produced 980 tons of ore, with a gross value of $28,221, of which $4,243 was for gold, $5,251 for silver, $2,058 for copper, $14,823 for lead, and $1,846 for zinc.

[1] See Conejos County.

[2] For discussion of geology see George, R. D., and Crawford, R. D., The Hahns Peak region, Routt County, Colo.: Colorado Geol. Survey, First Rept for 1908, pp. 189–229, 1909. Gale, H. S., The Hahns Peak gold field: U. S. Geol. Survey Bull. 285, pp. 28–34, 1906; Gold placer deposits near Lay, Routt County, Colo.: U. S. Geol. Survey Bull. 340, pp. 84–95, 1908.

Baca Grant (Crestone) district.—Small lots of ore were shipped from the Anna L., Honest Abe, and Pelican mines.

Cochetopa district.—A shipment of zinc sulphide ore was made from the Alaska mine.

Kerber Creek (Bonanza) district.—This was the principal producing district in Saguache County in 1913, but with a greatly decreased yield. Lead ore was shipped from the Antoro mine and from the Empress Josephine; copper-lead ore from the Elizabeth and from the Silver Queen mines. Lead-zinc ore from the Bonanza mine was milled at the Kortwright mill, and lead ore was shipped to smelters.

At the Rawley mine no development work was done except diamond drilling, assessment, and sampling. Development work totals 13,650 feet. There is an 100-ton concentration plant on this property.

SAN JUAN COUNTY.[1]

Production of gold, silver, copper, lead, and zinc in San Juan County, Colo., 1904–1913.

Year.	Number of producing mines.	Tonnage.	Gold.	Silver.	Copper.	Lead.	Zinc.	Total value.	Average value per ton.
		Short tons.		*Fine ozs.*	*Pounds.*	*Pounds.*	*Pounds.*		
1904	31	233,663	$1,736,229	1,584,938	3,575,219	10,303,414	1,384,340	$3,610,509	$15.45
1905	20	204,139	1,050,971	750,844	1,675,858	8,045,126	248,627	2,158,705	10.57
1906	26	196,438	900,175	690,076	1,549,663	4,515,317	584,476	1,954,637	9.94
1907	27	235,639	967,732	1,175,176	2,450,280	12,483,507	237,677	2,909,053	12.35
1908	42	202,643	997,824	1,004,287	2,282,738	8,402,569	10,131	2,184,801	10.78
1909	40	187,041	683,267	793,637	1,653,192	9,085,068	786,518	1,744,003	9.32
1910	54	206,272	[a] 710,257	[a] 782,250	1,208,496	10,688,386	3,781,259	1,960,898	9.50
1911	38	108,088	[a] 336,463	[a] 325,604	470,912	6,933,822	2,224,351	1,006,707	9.31
1912	41	140,917	523,574	714,974	1,063,291	9,114,334	2,478,594	1,719,894	12.21
1913	38	123,343	657,612	880,409	1,221,516	9,508,979	1,664,990	1,890,349	15.33
Increase (+) or decrease (−)	−3	−17,574	+134,038	+165,435	+158,225	+394,645	−813,595	+170,455	+3.12

[a] Includes placer production.

San Juan County in 1913 produced 123,343 tons of ore, with a gross value of $1,890,349, of which $657,612 was for gold, $531,767 for silver, $189,335 for copper, $418,395 for lead, and $93,240 for zinc.

During 1913 there were treated at amalgamation and cyanidation mills 52,056 tons of ore, with an average recovery per ton in bullion of $3.49 in gold and 0.06 ounce silver; there were also 60,455 tons sent to mills for concentration only, a total of 112,511 tons (91 per cent of all the ore mined), which yielded 19,058 tons of concentrates, averaging $20.92 per ton in gold, 12.42 ounces of silver, and also copper, lead, and zinc, with a total gross value per ton of $53.71.

Crude ore shipped to smelters—10,832 tons—averaged $7.12 in gold, 59.17 ounces of silver, 3.20 per cent copper, and 11.74 per cent lead.

Animas district (including the mines in the immediate vicinity of Silverton, and south and east of the Animas River from Silverton to Middleton).—The Animas district in 1913 produced 36,267 tons of ore, yielding $146,950 in gold, 701,101 ounces of silver, 506,644 pounds

[1] For discussion of geology see Cross, Whitman, Howe, Ernest, and Ransome, F. L., U. S. Geol. Survey Geol. Atlas, Silverton folio (No. 120), 1905.

MY-1913-003

of copper, 5,774,530 pounds of lead, and 217,574 pounds of zinc, with a total value of $915,208, as compared with $739,965 in 1912.

There were 26 producing mines in 1913, the same as in 1912. The principal producing mines in the district were the Iowa-Gold Tiger group and the Silver Lake mines. The Silver Lake mines were operated on company account for three months only, when the mines were leased. Most of the ore was milled, producing lead and zinc concentrates, but a considerable tonnage was shipped crude to the smelter. The output of the Iowa-Gold Tiger mine was milled, lead concentrates being produced. Lead ore from the Dives and copper-lead from the Highland Mary mine were shipped to smelters. Ore from the Intersection mine was treated by amalgamation and concentration. Other producing mines were the Aspen, Bandora, Big Three, Bonner, Green Mountain, Kansas City, Mayflower, North Star, Pride of the West, and Shenandoah.

Eureka district (north of Silverton, including Chattanooga, Gladstone, Animas Forks, Eureka).—This district in 1913 produced 87,076 short tons of ore, yielding $510,662 in gold, 179,308 ounces of silver, 714,872 pounds of copper, 3,734,449 pounds of lead, and 1,447,425 pounds of zinc, with a total value of $975,141, as against $954,575 in 1912. There were 12 producing mines in 1913, against 15 in 1912. An increased tonnage was milled at the Sunnyside mill, by amalgamation, concentration, and electrostatic separation. Lessees on the Gold King mine operated 40 of the 80 stamps continuously, with an increased yield of concentrates. The tonnage of lead-zinc ore from the Silver Ledge mine, at Chattanooga, treated by concentration, fell off heavily. Some copper ore was shipped from this mine. Copper-lead ore was shipped from the Congress mine. A large tonnage of lead-zinc ore from the Frisco tunnel property was concentrated. Other producing mines were the Hematite, Joe and John, Scotia, and Silver Doctor.

SAN MIGUEL COUNTY.[a]

Production of gold, silver, copper, lead, and zinc in San Miguel County, Colo.,[a] 1904–1913.

Year.	Number of producing mines.	Tonnage.	Gold.[b]	Silver.[b]	Copper.	Lead.	Zinc.	Total value.	Average value per ton.
		Short tons.		*Fine ozs.*	*Pounds.*	*Pounds.*	*Pounds.*		
1904	25	231,316	$1,728,838	1,329,184	245,709	6,184,375	.....	$2,791,077	$11.77
1905	19	291,338	1,711,853	1,275,079	17,721	6,970,152	.....	2,812,362	9.58
1906	21	386,735	2,447,790	1,672,522	70,725	7,158,189	.....	3,990,047	10.31
1907	29	407,491	2,467,516	1,438,299	14,905	5,274,641	.....	3,699,330	9.08
1908	26	428,231	2,317,651	1,543,187	382,402	5,555,049	952,872	3,464,114	8.08
1909	40	423,609	2,285,051	1,344,152	501,285	4,941,370	804,296	3,305,088	7.80
1910	43	481,000	2,494,793	1,144,050	544,189	7,791,841	2,193,981	3,643,008	7.57
1911	28	429,354	2,447,841	1,000,834	971,064	6,456,333	3,336,088	3,583,208	8.35
1912	26	455,692	2,399,234	1,153,709	845,497	7,429,622	2,943,783	3,785,726	8.31
1913	27	509,175	2,129,371	1,051,096	736,374	6,967,136	2,405,750	3,319,647	6.52
Increase (+) or decrease (−).	+1	+53,483	−269,863	−102,613	−109,123	−462,486	−538,033	−466,079	−1.79

[a] For discussion of geology see Purington, C. W., Preliminary report on the mining industries of the Telluride quadrangle, Colo.: U. S. Geol. Survey, Eighteenth Ann. Rept., pt. 3, pp. 745–850, 1898. Cross, Whitman, and Purington, C. W., U. S. Geol. Survey, Geol. Atlas, Telluride folio (No. 57), 1899. Hess, F. L., Notes on the vanadium deposits near Placerville, Colo.: U. S. Geol. Survey Bull. 530, pp. 142–156, 1912.

[b] Includes placer production.

The value of the metallic production of San Miguel County in 1913 was $3,319,647, of which $2,129,371 was for gold, $634,862 for silver, $114,138 for copper, $306,554 for lead, and $134,722 for zinc.

In gold yield, San Miguel maintained its place as second to Teller, and in silver, held second place after Lake. In total gross value of metals produced, San Miguel stood third, with Teller first, Lake second, and San Juan fourth.

During 1913 there were treated at amalgamation and cyanide mills 480,609 short tons of ore, or 94 per cent of all the ore mined; and an average of $2.71 in gold and 0.78 ounce of silver per ton was saved as bullion. The gold saved as bullion in 1913 represented 61 per cent of the gold produced in the county, and the silver in bullion represented 36 per cent of the county silver output.

There were 27,659 tons of ore sent to mills for concentration only, a total of 508,268 tons milled (99.8 per cent of all the ore mined), which yielded 31,330 tons of concentrates, averaging $26.38 in gold, 19.84 ounces of silver, and $17.14 in copper, lead, and zinc, a total of $55.51, as compared with $65.87 in 1912.

Crude ore to smelters—907 tons—averaged $1.84 in gold, 57.8 ounces of silver per ton, and 0.24 per cent copper and 22.26 per cent lead.

Upper San Miguel district.—The Upper San Miguel district in 1913 produced 484,595 tons of ore, yielding $2,039,203 in gold, 993,923 ounces of silver, 731,498 pounds of copper, 6,557,560 pounds of lead, and 2,405,750 pounds of zinc, with a total value of $3,176,129, as compared with $3,497,479 in 1912. Three large companies, the Liberty Bell, the Smuggler Union, and the Tomboy, furnished more than 90 per cent of the total output.

The annual report for the Tomboy Gold Mines Co. (Ltd.) for the year ending June 30, 1913, states:

> The company milled 129,618 dry tons of ore, yielding an average of $8.02 per ton. Receipts, by bullion, produced $2.76 per ton. Concentrates produced, $5.26 per ton, total receipts, $8.09 per ton; expenditures, total working cost, $4.39 per ton, total cost of production, $4.88 per ton. The Montana mine, recently purchased, furnished 41 per cent of the ore milled. The average content of the ore from this mine was as follows: Gold, 0.48 ounce; silver, 4.51 ounces; lead, 1.03 per cent; zinc, 2.18 per cent; iron, 4.13 per cent; copper, 0.28 per cent.
>
> The increase in tonnage for the year was brought about by the use of coarser screens in the batteries, and the regrinding of that portion of the pulp that is sent to the middlings mill, by two Hardinge conical mills. This has decreased the recovery of free gold by amalgamation, and to remedy this this company is contemplating installing two additional Hardinge mills below the batteries. Recent experiments have been made with flotation and electrostatic processes. These tests were still in progress and indicated that a better recovery could be made on the zinc-middlings product. The ore reserves are estimated at 426,000 tons, 264,000 tons in the Argentine group and 162,000 tons in the Montana group.[1]

The Liberty Bell mine and 80 stamp, 500-ton, amalgamation, concentration, and cyanidation mill were actively operated. In May, 1913, this company completed the installation of additional equipment for cyanidation of concentrates by fine grinding and agitation by Dorr continuous decantation wash. For five months of the year concentrates were sold to smelters, and for seven months treated at the mill. The ore is partly oxidized and partly sulphide, with siliceous and calcareous gangue, oxidation extending to 2,300 to 2,400 feet and continuing in lower levels.

[1] See Eng. and Min. Jour., Jan. 3, 1914, p. 31; Min. Mag. (London), November, 1913, p. 21, adv. section.

MY-1913-004

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MINERAL RESOURCES

OF THE

UNITED STATES.

1914

H. D. McCASKEY
Geologist in Charge, Division of Mineral Resources

PART I—METALS

H. D. McCASKEY, Geologist in Charge

6941

WASHINGTON
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Content of copper-lead ores sold or treated in Colorado in 1914, by counties.

County.	Ore.	Gold.	Silver.	Copper.	Lead.
	Short tons.	*Fine ozs.*	*Fine ozs.*	*Pounds.*	*Pounds.*
Boulder	70	9.60	42,841	7,337	35,512
Chaffee	514	16.63	24,960	44,320	142,168
Clear Creek	1	.74	19	215	762
Gilpin	8	19.13	299	661	1,726
La Plata	1	.03	29	378	102
Ouray	5	.56	1,734	592	907
Park	11	.....	533	2,020	2,145
Saguache	264	46.46	4,887	16,517	108,424
San Juan	318	195.76	6,817	25,582	79,415
Total	1,192	288.91	82,119	97,672	371,161

Content of lead-zinc ores sold or treated in Colorado in 1914, by counties.

	Ore.	Gold.	Silver.	Copper.	Lead.	Zinc.
	Short tons.	*Fine ozs.*	*Fine ozs.*	*Pounds.*	*Pounds.*	*Pounds.*
Chaffee	304	.....	.....	.....	59,454	150,729
Clear Creek	17,838	139.56	53,452	.....	532,295	1,050,210
Dolores	880	3.20	1,298	.....	205,207	366,549
Eagle	44,837	205.03	14,493	1,258	1,108,156	7,361,096
Gunnison	1,085	9.40	12,943	10,679	57,505	525,000
Lake	81,980	2,318.64	300,107	51,346	10,094,726	23,082,952
Ouray	27	4.39	678	471	3,893	14,962
Pitkin	207	.....	1,350	.....	47,140	93,237
Saguache	15	.70	74	.....	4,737	8,941
San Juan	1,650	23.66	3,788	2,492	76,248	30,341
Summit	18,810	181.55	26,115	2,780	1,152,107	4,847,478
Total	167,633	2,891.13	414,298	69,026	13,341,468	37,531,495

MINING INDUSTRY IN COLORADO IN 1914.

The output of Colorado mines during 1914 was $19,883,105 in gold, 8,796,065 fine ounces of silver, 74,211,898 pounds of lead, 6,639,173 pounds of copper, and 96,774,960 pounds of zinc (in terms of spelter and zinc in zinc oxide), with a total gross value in recovered metals of $33,460,126, as compared with $35,450,585, a decrease in value for 1914 of $1,990,459, or nearly 6 per cent. There was an increase of $1,736,189 in gold, a decrease of 529,190 ounces of silver, a decrease of 13,685,875 pounds of lead, a decrease of 588,653 pounds of copper, and a decrease of 22,571,469 pounds of zinc. The heaviest decrease in value was $1,747,877 for zinc, but there were decreases of $768,230 for silver, of $237,303 for copper, and of $973,238 for lead.

The average prices for metals for the calendar years 1913 and 1914 were:

Average prices of silver, copper, lead, and zinc in 1913 and 1914.

	1913	1914
Silver (fine ounce at New York)	$0.604	$0.553
Copper (pound, electrolytic, at New York)	.155	.133
Lead (pound at New York)	.044	.039
Zinc (spelter, pound at St. Louis)	.056	.051

MY-1914-002

The Globe, Leadville, Pueblo, Durango, and Salida smelters were operated continuously on ore from British Columbia, Canada, Colorado, Idaho, South Dakota, and other States, including a considerable quantity of zinc residues from Kansas and Oklahoma zinc smelters. The United States Zinc Co.'s zinc smelter, at Pueblo, was operated steadily on zinc-lead ores from various counties in Colorado, and also from Arizona, Idaho, Nevada, and Utah. The copper-matting plant at Ouray was operated steadily during 1914 and construction work on a 200-ton addition to the plant was completed early in 1915. The Western Chemical Co.'s sulphuric acid, magnetic separation, wet-concentration plant,[1] at Denver, was operated steadily, as was the Empire Zinc Co.'s 200-ton magnetic separation plant,[2] at Canon City, both treating chiefly Leadville zinc-lead sulphide ores. The Sutton, Steele & Steele dry concentration and static electric separation plant, at Denver, was operated during the year on various classes of ore from different districts in the State, but was closed in December. Cyanide precipitates and copper ore were shipped to Omaha, and copper ore and copper matte were shipped to Utah plants.

It is worthy of note that froth flotation was introduced successfully at the Atlas mill, Sneffels district, Ouray County; at the Pingrey mill, Leadville, Lake County; at the Silver Lake mill, Animas district, and at the Gold King mill (for the treatment of slimes), Eureka district San Juan County; and that tests leading to its installation were made at the Mary Murphy mill, St. Elmo, Chaffee County.

The following list gives the active smelting plants in Colorado in 1914:

List of active smelting plants in Colorado in 1914.

City.	Plant.	Owner.	Class of ore.	Production.	Total furnaces.[a]
Denver	Globe	American Smelting & Refining Co.	Lead base[b]	Lead bullion and copper matte.	7
Pueblo	Pueblo	do	do	do	7
Leadville	Arkansas Valley	do	do	do	10
Durango	Durango	do	do	do	4
Salida	Salida[c]	Ohio & Colorado Smelting & Refining Co.	do	do	4
Pueblo	United States Zinc Co.	American Smelting & Refining Co.	Zinc - lead - copper-gold-silver.	Spelter and zinc dust.	1,920 retorts.
Ouray	Wanakah	Wanakah Mining Co.	Pyritic copper	Copper matte	1

[a] Not all used.
[b] Copper ores and copper in other ores are handled by occasionally turning a lead furnace into a copper furnace.
[c] Weeks, F. D., The Salida smelter: Am. Inst. Min. Eng. Bull. 104, pp. 1691–1695, 1915.

Cripple Creek produced 60 per cent of the total gold output of the State with a yield of $11,996,116, as compared with $10,905,003 in 1913. This is the largest production for any one year since 1908. Cripple Creek, to the end of 1914, has produced $258,786,653 in gold. The Roosevelt tunnel continued to lower the water level gradually except in the Vindicator and Golden Cycle mines, where electric pumps, installed in 1913, are used. In July, 1914, preparations were

[1] For description, see Colorado State Bur. Mines Thirteenth Bienn. Rept., 1913–14, pp. 150–151, 1914.
[2] For description, see Livingston, A. R., Colorado State Bur. Mines Thirteenth Bienn. Rept., 1913–14, pp. 100–101, 1914.

completed for continuing the tunnel to the Vindicator-Golden Cycle territory—an addition of 10,250 feet—and from August 3 to November 4, when the El Paso plant was destroyed by fire and the work in the tunnel stopped, the heading had been advanced 270 feet. Work was resumed March 2, 1915. The water flow from the tunnel between July 1, 1914, and March 1, 1915, varied from 7,300 to 8,213 gallons a minute. From the collars of the shafts the depth of ground to the tunnel will be 2,100 feet at the Vindicator No. 1, 1,955 feet at the Golden Cycle, 2,145 feet at the Portland No. 2, 1,645 feet at the Elkton, and 2,645 feet at the American Eagles.

The Golden Cycle and the Portland cyanidation mills, at Colorado Springs, were operated steadily, with a considerably increased output. Cyanide mills in the district also made an increased output. The Union cyanidation plant, at Florence, and the U. S. Reduction & Refining Co.'s chlorination and cyanidation plants, at Colorado City, were idle. An attempt was made to cyanide the old dumps of the Metallic Co., at Florence. The output of concentrates and smelting ore from Cripple Creek increased appreciably.

Lake County (chiefly Leadville, but also from the Lackawanna Gulch and St. Kevin districts) produced $1,571,451 in gold, 3,810,830 ounces of silver, 26,784,615 pounds of lead, 2,382,910 pounds of copper, and 78,763,334 pounds of zinc, with a total value of $9,057,297, against $1,023,631 in gold, 3,400,318 ounces of silver, 29,286,183 pounds of lead, 1,923,987 pounds of copper, and 93,842,857 pounds of zinc, with a total value of $9,919,433, in 1913. The output of zinc carbonate was 113,881 tons of 24.3 per cent zinc, as compared with 135,760 tons of 27.45 per cent zinc in 1913. The production of zinc and lead-zinc sulphide smelting and concentrating ore combined increased from 97,704 tons of 23 per cent zinc in 1913 to 111,947 tons of 21.2 per cent zinc in 1914. A 50-ton zinc-oxide plant was built at Leadville for the treatment of zinc carbonate ores of 16 per cent or less, but was operated for only a short period in 1914. The Leadville district mill was remodeled and the mineral separation flotation equipment added, and, after considerable experimental work, the mill was operated on zinc-lead sulphide ores from Leadville and Red Cliff. The unwatering of the downtown mines was assured by the ordering of electric pumps and motors, and surface preparations were begun for installation at the Penrose shaft. Lake County (including Leadville placers and deep mines, placers on Arkansas River and its tributaries included in Lake County, and deep mines of the St. Kevin and Lackawanna Gulch districts) has produced from 1860 to 1914 a total of $359,670,241, divided into $6,165,905 placer gold, $36,640,591 lode gold, 215,212,688 ounces of silver, with a commercial value of $176,628,520; 87,306,361 pounds of copper, with a commercial value of $11,507,838; 1,802,865,683 pounds of lead, with a commercial value of $77,447,227; and 916,510,370 pounds of zinc, with a commercial value of $51,280,160.

The San Juan region of Dolores, La Plata, Ouray, San Juan, and San Miguel counties produced $3,969,857 in gold, 2,515,437 ounces of silver, 11,861,766 pounds of lead, 2,379,639 pounds of copper, and 1,382,334 pounds of zinc, compared with $4,071,683 in gold, 2,769,077 ounces of silver, 21,740,502 pounds of lead, 3,373,935 pounds of copper, and 6,867,410 pounds of zinc in 1913. There was an increase in gold of $252,616 in Ouray County, but decreases of $186,393 in La Plata, of $149,135 in San Juan, of $14,455 in San Miguel, and of $4,459 in Dolores. There were increases in silver of 229,365 ounces in San Miguel and 56,655 ounces in Ouray, but decreases of 386,492 ounces in San Juan, 92,290 ounces in Dolores, and 60,878 ounces in La Plata. Dolores, San Miguel, and San Juan counties all showed heavy decreases in lead, copper, and zinc. The Tomboy Co. produced no zinc concentrate, as the Montana vein contains little or no zinc. Ouray County, because of increased production at the Camp Bird, the steady production of the Wanakah mill and copper matting plant, and the successful application of flotation to the Atlas ores, showed appreciable increases in gold, silver, and copper, and a small decrease in lead.

Boulder County's production was $98,710 in gold, 312,217 ounces of silver, 523,821 pounds of lead, and 24,316 pounds of copper—an increase of $29,436 in gold, 149,833 ounces of silver, and 114,321 pounds of lead.

Chaffee County produced $332,230 in gold, 272,242 ounces of silver, 3,690,359 pounds of lead, 319,496 pounds of copper, and 2,173,177 pounds of zinc, a considerable increase for all the metals except copper, which about equaled the yield in 1913.

Clear Creek County's output was $495,275 in gold, 345,387 ounces of silver, 2,435,692 pounds of lead, 367,790 pounds of copper, and 1,067,314 pounds of zinc, an increase of $62,786 in gold, but decreases in the other metals. A considerable quantity of Gilpin County ores was treated in Clear Creek County mills or sold to the sampler at Idaho Springs, and the contents of this ore have been credited to Gilpin County.

Gilpin County's output was $573,553 in gold, 145,237 ounces of silver, 499,718 pounds of lead, and 726,579 pounds of copper, including ore mined through the Newhouse tunnel.

Idaho Springs district, Clear Creek County, produced $386,512 in gold, 193,221 ounces of silver, 1,239,572 pounds of lead, 250,744 pounds of copper, and 12,530 pounds of zinc in 1914, as compared with $282,603 in gold, 214,481 ounces of silver, 1,628,324 pounds of lead, 309,885 pounds of copper, and 4,639 pounds of zinc in 1913. Idaho Springs district, Clear Creek County, and the southern districts of Gilpin County combined produced $950,001 in gold, 333,241 ounces of silver, 1,704,236 pounds of lead, 976,174 pounds of copper, and 25,510 pounds of zinc, as compared with $958,618 in gold, 487,312 ounces of silver, 2,836,029 pounds of lead, 1,143,040 pounds of copper, and 13,108 pounds of zinc in 1913.

The Pitkin County (Aspen) yield was 372,886 ounces of silver and 23,233,230 pounds of lead—a decrease of 189,422 ounces of silver but an increase of 5,704,844 pounds of lead. But for the fire in the Smuggler workings the output would have been larger.

Creede (Mineral County) produced $19,304 in gold, 615,734 ounces of silver, 1,401,795 pounds of lead, and 32,586 pounds of copper, but no zinc—an appreciable decrease for all metals other than copper.

Gunnison County's output, from deep and placer mines, was $13,033 in gold, 59,036 ounces of silver, 317,974 pounds of lead, 11,188 pounds of copper, and 525,000 pounds of zinc—an increase for gold, lead, and zinc, but a decrease for silver and copper. Hinsdale County's output was nominal.

MY-1914-003

1914. Work on the construction of the 400-ton concentration mill was continued.

Slater district.—Assessment work was done on the mines near Slater.

Yarmony district.—The Copper King claim is opened by a 400-foot incline shaft.

SAGUACHE COUNTY.

Mine production of gold, silver, copper, lead, and zinc in Saguache County, Colo., in 1913 and 1914.

Year.	Number of producing mines.	Ore.	Gold.	Silver.	Copper.	Lead.	Zinc.	Total value.
		Short tons.		*Fine ozs.*	*Pounds.*	*Pounds.*	*Pounds.*	
1913	10	980	$4,243	8,694	13,277	336,886	32,964	$28,221
1914	8	1,488	16,513	18,293	35,783	534,872	8,941	52,704
Increase (+) or decrease (−)	−2	+508	+12,270	+9,599	+22,506	+197,986	−24,023	+24,483

Saguache County in 1914 produced 1,488 tons of ore, with a gross value of $52,704, of which $16,513 was for gold, $10,116 for silver, $4,759 for copper, $20,860 for lead, and $456 for zinc.

Baca Grant (Crestone) district.—A small lot of ore was shipped from the Pelican mine.

Cochetopa district.—A small shipment of copper ore was made from the Yukon mine.

Kerber Creek (Bonanza) district.—There was a considerably increased output from this district, the principal producing district in the county. Lead sulphide ore was shipped from the Antoro and from the St. Louis mines; copper, copper-lead, and lead-zinc ore from the Bonanza mine. Assessment work was done on the Rawley mine.

SAN JUAN COUNTY.[1]

Mine production of gold, silver, copper, lead, and zinc in San Juan County, Colo., in 1913 and 1914.

Year.	Number of producing mines.	Ore.	Gold.	Silver.	Copper.	Lead.	Zinc.	Total value.
		Short tons.		*Fine ozs.*	*Pounds.*	*Pounds.*	*Pounds.*	
1913	38	123,343	$657,612	880,409	1,221,516	9,508,979	1,664,999	$1,890,349
1914	29	117,988	508,477	493,917	825,180	5,199,000	971,177	1,143,653
Increase (+) or decrease (−)	−9	−5,355	−149,135	−386,492	−396,336	−4,309,979	−693,822	−746,696

San Juan County in 1914 produced 117,988 tons of ore, with a gross value of $1,143,653, of which $508,477 was for gold, $273,136 for silver, $109,749 for copper, $202,761 for lead, and $49,530 for zinc.

[1] For discussion of geology see Cross, Whitman, Howe, Ernest, and Ransome, F. L., U. S. Geol. Survey Geol. Atlas, Silverton folio (No. 120), 1905.

During 1914 there were treated at amalgamation and cyanidation mills 55,700 tons of ore, with an average recovery per ton in bullion of $2.25 in gold and 0.05 ounce silver; there were also 57,613 tons sent to mills for concentration only, a total of 113,313 tons (96 per cent of all the ore mined), which yielded 16,337 tons of concentrates, averaging $19.44 a ton in gold, 17.93 ounces of silver, and also copper, lead, and zinc, with a total gross value per ton of $47.12.

Crude ore shipped to smelters—4,675 tons—averaged $14.07 in gold, 42.42 ounces silver, 1.71 per cent copper, and 13.36 per cent lead.

Animas district (including the mines in the immediate vicinity of Silverton and south and east of Animas River from Silverton to Middleton).—The Animas district in 1914 produced 36,907 tons of ore, yielding $206,630 in gold, 367,879 ounces of silver, 510,524 pounds of copper, and 3,692,483 pounds of lead, with a total value of $621,974, as compared with $915,208 in 1913.

There were 20 producing mines in 1914, as against 26 in 1913. The principal producing mines in the district were the Silver Lake mines and the Iowa-Gold Tiger group. The Silver Lake mines were operated by lessees throughout the year. The 300-ton concentration mill was opened as a custom plant in May. A 100-ton froth flotation unit was added to the mill. The ore is sulphide in quartz gangue, although some of the ore is partly oxidized. Lead and copper concentrates and crude lead ore were shipped to the Durango smelter. Mears & Wilfley built a mill to treat the tailings of previous years and operated it for a period. Oxidized and heavy lead sulphides from the Aspen mine were shipped to the Durango smelter; low-grade sulphides were shipped to the Silver Lake custom mill. Lead sulphide ore of the Iowa-Tiger mine was milled at the company's mill, the product being lead-copper-silver-gold concentrates. Lead ore from the Dives and the Highland Mary mines was shipped to Durango. Ore from the Intersection mine was treated by amalgamation and concentration. Other producing mines were the Anti-Periodic, Bonner, Hercules, Kansas City, Little Mary, Mayflower, North Star, Pride of the West, and Shenandoah.

Eureka district (north of Silverton, including Chattanooga, Gladstone, Animas Forks, and Eureka).—This district in 1914 produced 81,081 short tons of ore, yielding $301,847 in gold, 126,038 ounces of silver, 314,656 pounds of copper, 1,506,517 pounds of lead, and 971,177 pounds of zinc, with a total value of $521,679, against $975,141 in 1913. There were 9 producing mines in 1914, against 12 in 1913. A large quantity of ore was milled at the Sunnyside mill by amalgamation, concentration, and electrostatic separation, the product being bullion, lead concentrate, and zinc concentrate. A large quantity was treated at the Gold King concentration mill, to which the flotation process was added for treatment of slimes. Lead-zinc sulphide ore from the Frisco tunnel was mined by lessees and milled at the company's concentration plant, which was operated for a few months. The product was lead concentrates and lead-zinc concentrates, the tailings being impounded for future treatment. Copper ore was shipped from the Congress mine and from the Sultana mine. Other producing mines were the Esmeralda, Joe and John, Poughkeepsie, and Red Cloud.

MY-1914-004

INVENTORY OF MILLS AND TAILINGS IN THE UPPER ANIMAS RIVER WATERSHED: LOCATIONS, PHOTOGRAPHS, AND INFLUENCE

by

J. Thomas Nash

U. S. Geological Survey
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INVENTORY OF MILLS AND TAILINGS IN THE UPPER ANIMAS RIVER WATERSHED: LOCATIONS, PHOTOGRAPHS, AND INFLUENCE

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INTRODUCTION

Mill tailings are a potentially important source of acid and metals in watersheds because these materials are finely ground, are commonly permeable, minerals in them are reactive, and typically are placed in or near wetlands and (Plumlee, 1999). Because basic information on the status and location of mills and their tailings is sparse in published literature and nearly absent in electronic databases, an effort was made to locate them in the Animas River watershed. The information in this report is neither complete nor quantitative, but should be useful to persons concerned with the influence of historic mining on the Animas River watershed.

Some definitions are needed. A mill is a structure where ore is processed to concentrate minerals and metals of economic value. Included in the processing are numerous stages and appropriate equipment for grinding the ore and separating minerals or metals by physical or chemical methods. Physical methods generally are based on a physical property such as density or magnetic susceptibility, and in the study area typically included jig tables to recover heavy minerals like gold or galena. Chemical methods require that the ore minerals be dissolved, and this generally involves the use of cyanide. There also are chemical-physical processes that do not dissolve the minerals but utilize chemicals to do the work, including amalgamation (mercury is used to collect gold on its surface) and floatation (soapy reagents are used to pick up minerals according to special surface properties).

Tailings are here defined as the refuse after mill processing of *ground* ore (Thrush, 1968). The term 'tailings' is used by geologists and engineers in many other ways to connote the leavings or low-value materials from mining, but here is the key distinction is the ground condition: these materials are typically fine sand size, but can be coarser than beach sand in some early stamp mills, and can include finer material of clay size that some call 'slimes'. The porosity of tailings is highly variable, depending on the ore mineralogy, processing, and placement of tailings. Some are highly permeably like clean beach sand, but others can be nearly impermeable because of clays, and not uncommonly the porosity is variable from layer to layer. Because most mills process the ground rock with water, the tailings leaving a mill are a viscous fluid like wet concrete in a cement mixer and can be poured, pumped through a pipe, or run through a sluice. It is much cheaper to process wet tailings downward, thus tailings are almost always topographically below the mill structure and in some places are carried in pipes or sluices for thousands of feet to an impound or 'pond.' The pond allows the tailings to settle and the water to be collected and commonly recycled. Impounded tailings are generally damp, compact, and quite cohesive. The cohesiveness of old tailings is a significant issue because they tend to appear to be strong, but in practice are susceptible to wind and

stream erosion or even catastrophic failure by liquifaction (when the 'solids' become a viscous liquid and flow like pancake batter).

Tailings tend to be placed on mill patents (private property with use justified for this purpose and larger in size than a mine patent), but in places tailings may be placed on public lands adjacent to the mill patent. The land status of mills and patents in the study area is not well known to the author, and the likelihood of their being on private property has restricted the kinds of observations and sampling that could be done. Most of the sites described here were observed from a distance on public thoroughfares. This restriction limited my ability to identify and characterize mill tailings, which can be difficult to recognize through willows and other riparian vegetation. Locations given in Table 1 are not highly precise as they were measured by standard GPS, extrapolated to the estimated site that could not be visited, and for some localities measured from 1:24,000 scale topographic maps. Chemistry and reactivity of these tailings is discussed elsewhere (Nash, 1999).

Smelters can be sources of contamination, especially from thick and noxious fumes (Nash and others, 1996), but the slag at three smelter sites in this area probably is not a significant problem. Leach tests on slag from this area suggest that very little is soluble (Nash, 1999). However, these and other slags contain several percent lead, copper, zinc, and other base metals which can be mobilized by gastric juices if the slag is ingested. Thus, the slag at the three sites appears to pose little threat to water, but should not be handled or eaten by humans or wildlife.

BRIEF INTRODUCTION TO MILLING IN THE AREA

Changes in mining and milling technology over the years have had important influences on the materials left behind in the mines or placed on dumps and tailings piles. In this region at least four stages of technology can be described:

1). Early stage (1875-1890) small-volume mining of high grade ores: because the associated milling and transportation infrastructure at this time was poorly developed, the ores often were hand sorted to create extremely rich material for direct shipping to smelters. Local smelters were built by several entrepreneurs to treat specific kinds of local ores from the Red Mountain district pipe mines or the more typical vein deposits, but the high lead content defied the crude technology of the time and all failed with little production. Hand sorted ores were carried by mules, or wagons, on crude roads and, after 1882, by trains to efficient smelters in Durango, Denver, and Pueblo. Many of the mills in this era utilized water power. This stage of mining has left a relatively low impact on the environment today because most of the milling and smelting was done elsewhere and not much mineralized waste rock was brought out onto dumps. The mills that operated in this early stage, as in Little Giant Basin and Arrastra Creek, were small stamp mills that were not very efficient at removing much other than gold, and the tailings were discarded in any convenient manner, often directly into streams. Very little remains near these mill sites today. In about 1890 methods were changing, but the price of silver was dropping and this hurt efforts to create better infrastructure.

2). Middle stage (1890 to about 1918), medium-volume mining with larger stamp mills: the mines that survived the silver crash of the mid-1890's or reopened later tended

to be larger and deeper, and often utilized trams to carry ore to protected millsites below treeline. The chief incentive was to locate mills at sites distant from avalanches to minimize risk of injury and damages. Mills were enlarged to 150 and even 350 tons per day capacity (Ransome, 1901; Henderson, 1926); the larger mill throughput obviously created more tailings and there often was little space for the tailings. Electric power was available at some sites, but many mines utilized steam to power their equipment. The mills of this era tended to be down in the main valleys, and most were close to the railroad that ran up the Upper Animas River. Most of the tailings from this period can not be found near the mills and it must be presumed that either they were piped into the creeks, or that the impounds were inadequate to survive floods such as the ones that occurred in 1911 and 1928 (Follansbee and Sawyer, 1948).

3). Late-middle stage (1918 to 1935), flotation mills introduced: infrastructure did not change much, but new technology called 'selective floatation' permitted mills to concentrate sphalerite for profit (earlier zinc drew a penalty), and also other sulfide minerals such as galena and chalcopyrite in separate fractions for higher value when shipped to smelters for refining. This new technology permitted the mining of 'low grade' ores of the type in the Sunnyside mine (Burbank and Luedke, 1968; 1969), and the rate of mining increased accordingly. Use of electricity was now the norm for increasingly large-scale mining. The change in style was first made at the Sunnyside mine and the associated new mill built at Eureka in 1917. In this stage mine tunnels reached many miles in length (some crossing under natural drainage divides), numerous tramways carried ores to centralized mills, and large mine dumps and mill tailings piles were created.

4). Modern regulated stage (1935-1990), controls on tailings: tailings technology changed in 1935 when regulations required that mill tailings be confined to tailings ponds rather than allowed to go into surface streams. An Executive order imposed this regulation to improve the quality of water in streams. The Shenandoah-Dives (Mayflower) mill was a leader in the development of methods to collect tailings, and to separate and recirculate mill water from tailings ponds back to the mills. This is explained well on displays at the tourist stop southeast of the Mayflower mill, created by the Sunnyside Mining Corp. in about 1995. A smaller number of mills operated in this period, the largest by far was the Mayflower mill that processed ore from mines run by the company (first the Shenandoah-Dives complex to the east, then the Sunnyside mine complex to the west), as well as from numerous smaller mining operations on a 'custom' basis. The tailings from some of the mills at this stage created very large, multi-million ton impounds such as at the Mayflower mill and at the Idarado mill in the Red Mountain District. These have been physically stable, with no evidence of significant failure in the Silverton area, but there have been concerns over chemical processes operating in the tailings to leach and mobilize metals into groundwater, which have been addressed by reclamation work in the 1990's. I lack information on the age of many of these impounds and the behavior of the tailings after placement because all are on private property and little is recorded in the literature.

INVENTORY OF MILLS AND TAILINGS

An inventory of mills, or mill sites, and associated tailings because the published literature and electronic databases have incomplete records. Electronic databases, such as those maintained by the USGS and by the former US Bureau of Mines (MAS/MILS) contain reports on less than ten percent of the mills and even less information on tailings.

Tailings are considered to be the important environmental feature because the materials most typically were placed in or close to streams and wetlands. Locating mills in the field often is a first step toward identifying their tailings, or lack thereof. Some of the mills were described in reports (Ransome, 1901; Henderson, 1926; King and Allsman, 1950), most of which I could confirm in the field. A few mills could be identified on topographic maps, and then checked in the field. Some tailings impounds are large enough to be shown on topographic or geologic maps, a great help, but not always reliable because many maps use the same label for mine dumps and placer mine spoil. Information for 51 mill and 23 tailing sites, and 3 smelter sites is given in table 1, and the locations are shown on Figure 2. The number of mills may seem high for such a small area, but really is a minimum estimated because I surely have missed some sites that were burned beyond recognition or which were rebuilt. The number of tailings sites that I list is an even lower estimate of the number originally present because many of the older mills have no visible preserved tailings to report. The volume of tailings that were placed directly into streams or eroded during storm events is difficult to quantify but is one of the most important implications of this study.

PHOTO TOUR OF MILLS AND TAILINGS

Color photos, in digital format, are included to help understand the mills and tailings and the wide disparity in their size and present condition. Most of the structures have collapsed over the years, and many are burned or rotted beyond restoration. Some may question the identification of structures as mills, and I would agree that some could be another variety of mining-related building. However, for more than 90 percent of mills, the multiple-level design (to facilitate gravity feed of materials) is diagnostic. The 75 photos are explained briefly and the user can 'click' on buttons to view the picture using Adobe Acrobat Reader, which is widely distributed as free software.

DISCUSSION OF TAILINGS AND THEIR SIGNIFICANCE

Tailings are a significant legacy of mining. The volume of fine sands produced during milling is proportional to the amount of ore produced, and typically much more abundant than the ore sent away to be refined: from a ton of ore mined, tails commonly are more than 80 percent, to as much as 99 percent, or more than 1,600 pounds per ton.

The total amount of tailings created in the watershed in 125 years of mining is on the order of 16-18 million tons if one extrapolates from the figures for 1873 to 1964 (Burbank and Luedke, 1964). Of this about 12 million tons is reasonably accounted for, mostly in the Mayflower mill impounds (the Sunnyside Mining Co. display near the Mayflower mill states that this mill produced 10 million tons of tailings, most of which appear to be in place). We can make some estimates for time periods:

a). early years: production from 1873-1890 was roughly 150,000 to 190,000 short tons (Henderson, 1926); possibly 10 percent of this is in place near those old mills.

b). middle years: production from 1890-1918 was about 2.5 million short tons; possibly 10 to 20% of these tailings are in place.

c). late-middle years: production from 1918 to 1935 was about 1.5 million short tons; possibly 20 % of these tailings are in place;

d). Modern regulated era: production after the 1935 order was about 10 to 12 million tons; most of these tailings are in place.

These estimates are not precise but are sufficient to suggest that about 3 to 5 million tons of tailings are not accounted for—washed down the minor and major streams. This is qualitatively supported by studies of stream alluvium, and especially sandbar and overbank deposits that visibly display layers of tailings. Detailed studies of alluvium stratigraphy (Vincent and others, 1999) and stream-sediment geochemistry (Church and others, 1997) provide more facts. The scope of this problem is large and quantification is difficult.

This study documents what many specialists know, but is inadequately reported in the literature:

- Tailings typically are placed within 200 yards of streams, and often are in floodplains.

- Some impounds were breached during severe storms, but the evidence is mostly downstream in overbank deposits. In contrast, in other areas such as Nevada, one can see partial remains of breached impounds and track the fluvial tailings down arroyos for 2 to 10 miles.

- The majority of mills were in the Upper Animas River watershed, and these probably produced 80 percent of the tailings by tonnage. Mills in the Mineral Creek watershed had the smallest amount of tailings, possibly about 5 percent of the total. Cement Creek watershed had several large mills, and possibly 10-15 percent of total tailings tonnage.

- The tailings that have been lost to stream drainages are effectively part of the geochemical baseline for the area, similar to clasts of mineralized rocks. The tailings on sandbars, overbank deposits, or mixed in with bed sediments, are very difficult to remove because restoration activities would damage habitat and these activities are very expensive.

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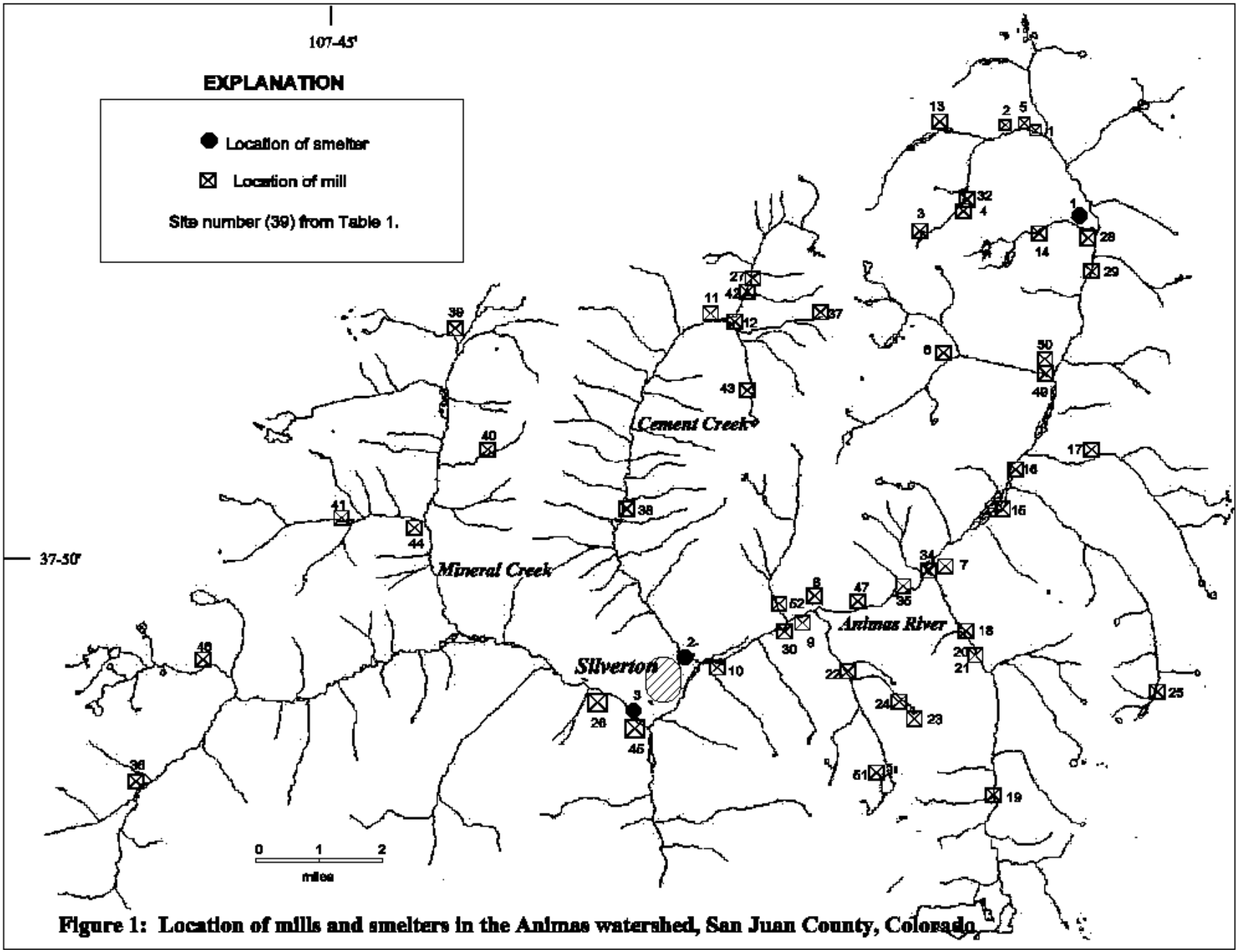

Figure 1: Location of mills and smelters in the Animas watershed, San Juan County, Colorado

Table 1: Location and description of mills and tailings in Upper Animas River watershed, Colorado

Site-ID	Map	Name	Ndd	Wdd	MILL	TAILS	COMMENTS
SMELTERS							
NAG170	1	Eclipse smelter	37.9178	107.5592	Y	S	ECLIPSE SMELTER C. 1880, SMALL VOL OF SLAG NEXT TO ANIMAS R
NAG171	2	Greene(?) smelter	37.8200	107.6628	Y	S	SMELTER CEMENT CRK MOUTH; MOD VOL SLAG C. 1890
NAG299	3	Walshe/S. Silverton	37.8078	107.6750	Y?	S	SILVERTON SMELTER, 1 MI WEST; FAIRLY LARGE
MILLS							
NAM103	1	Gold Prince	37.9300	107.5689	Y	N	BIG MILL, TRAMMED ORE FROM GOLD PRINCE; NO TAILS EVIDENT, 30 JIG TABLES
NAM104	2	Bagley	37.9325	107.5783	Y	SM	WOOD MILL, BAGLEY, SMALL TAILS to east
NAM105	3	Mastodon	37.9100	107.5992	Y	SM	SM STAMP MILL, STONE FOUNDATION, TAILS IN CREEK
NAM107	4	Hanson	37.9117	107.5944	Y	SM	SM STAMP MILL, SM TAILS, restored, excellent condition
NAM109	5	Columbus	37.9322	107.5708	Y	NX	SM STAMP MILL EARLY ANIMAS FKS
NAM111	6	Eureka Gulch (Sunnyside)	37.8831	107.5919	Y	NX	MD MILL EUREKA GULCH, SUNNYSIDE EARLY; NO TAILS FOUND
NAM112	7	Pride of the West Mill	37.8394	107.5917	Y	MD	PRIDE OF WEST MILL, HOWRDSVILLE; MED TAILS CONTAINED
NAM113	8	Mayflower mill	37.8283	107.6292	Y	LG	MAYFLOWER BIG MILL HUGE TAILS IMPOUND INTACT
NAM114	9	Silver Lake mill	37.8278	107.6272	Y	NX	BIG CEMENT FOUNDATION,EAST OF MAYFLOWER MILL; NO TAILS
NAM115	10	Lackawanna mill	37.8144	107.6522	Y	SM	LACKAWANNA MILL AND TAILS BELOW
NAM116	11	Mogul-Gold king	37.8908	107.6525	Y	NX	GLADSTONE BIG CEMENT MILL; NO TAILS
NAM117	12	Lead Carbonate New	37.8917	107.6500	Y	N	LEAD CARBONATE MILL PER TOPO; TAILS GONE?
NAM121	13	Vermillion	37.9339	107.5978	Y	SX	CONCRETE REMAINS BELOW DUMP, TAILS S OF ROAD
NAM164	14	Treasure Mtn	37.9142	107.5694	Y	NX	TREASURE MTN MINE AND MILL; COULD FIND NO TAILS IN PICAYUNE GULCH
NAM229	15	Hamlet mill	37.8519	107.5747	Y	NX	CONCRETE AND WOOD, 1 MI N OF HOWDSVL; NO TAILS
NAM230	6	Kitti-Mac mill new	37.8606	107.5706	Y	MD	KITTI-MAC TRAM MILL; TAILS TO SW NAT 101
NAM234	17	Kitti-Mac mill old	37.8622	107.5533	Y	NX	EARLIER KIT-MAC MILL IN MINNIE GULCH; NO TAILS
NAM252	18	Old Hundred	37.8222	107.5861	Y	NX	OLD HUNDRED MILL; TAILS SMALL AS OBSERVABLE
NAM257	19	Highland Mary	37.7878	107.5778	Y	MD	HIGHLAND MARY MILL, STONE FOUNDATION ONLY
NAM268	20	Buffalo Boy(?)	37.8181	107.5819	Y	NX	CONCRETE STRUCTURE ACROSS RD FROM TRAM BUILDING
NAM269	21	Buffalo Boy	37.8197	107.5825	Y	NX	STONE FOUNDATION, BEAMSN STEEL, W OF BUFFALO BOY MINE/TRAM
NAM279	22	Iowa Mill	37.8125	107.6169	Y	NX	CRUDE FOUNDATION, METAL PARTS; TAILS START 100 M TO WEST
NAM291	23	Little Giant, old	37.8042	107.5986	Y	SM	CRUDE FOUNDATION, GRIND WHEELS, TAILS; OLD STAMP MILL
NAM292	24	Little Giant	37.8086	107.6022	Y	SM	LITTLE GIANT STAMP MILL, EXC. PRESERV., STAMPS GONE, SM VOL TAILS BELOW
NAM299	25	Minnie Gulch	37.8133	107.5361	Y	NX	10 STAMP MILL IN GREAT SHAPE; NO TAILS--GONE IN MINNIE CREEK?
NAM302	26	Northstar	37.8069	107.6797	Y	NX	NORTHSTAR MILL, SOME TAILS POSSIBLY ALONG MINERAL CREEK
NAM330	27	Red and Bonita	37.8978	107.6447	Y	NX	RED AND BONITA MILL, VERY FEW TAILS on fericrete terrace
NAM354	28	Burns/Narrows mill	37.9106	107.5561	Y	N	SMALL STONE FOUNDATION, UPPER ANIMAS, ZERO TAILS
NAM356	29	Silver Wing	37.9033	107.5553	Y	N	SILVER WING MILL, ZERO TAILS
NAM363	30	Aspen mill?	37.8244	107.6328	Y	N	MINIMUM REMAINS, FOUNDATION, SMALL MILL ONE LEVEL? NO TAILS
NAM377	32	Sound Democrat?	37.9125	107.5954	Y?	NX	FOUNDATION AND BOARDS NORTH OF M107, JIG TABLE

NAM388	34	Howardsville Mill	37.8372	107.5444	Y	NX	OLDER MILL, NEW RED ROOF, TRAM TO SE; SMALL TAILS
NAM389	35	S Howardsville	37.8339	107.6006	Y	NX	MINIMUM FOUNDATION, TWO? LEVELS, SOME TAILS
NAM399	36	Bandora	37.7869	107.8006	Y	NX	BANDORA MILL, SM CONCRETE FOUNDATION, NO STEEL, NO TAILS
NAM409	37	Lead Carbonate old	37.8908	107.9664	Y?	SX	OLD LEAD CARBONATE MILL, AT MINE, SMALL TAILS NEARBY
NAM414	38	Yukon mill	37.8494	107.6764	Y?	N	BLUE METAL BUILDING, ON SITE OF OLD MILL?
NAM424	39	Silver Ledge	37.8758	107.7264	Y?	N	MINIMUM REMAINS NEXT TO ORE BIN, CHATTANOOGA
NAM509	40	Brooklyn	37.8603	107.7139	Y	SM	SMALL HANDMADE MILL, 70'S? BROOKLYN
NAM524	41	Ruby Trust	37.8447	107.7519	Y	SM	OLD STAMP MILL WITH JIGG TABLES
NAM529	42	Gold King old	37.8969	107.6447	Y	SM	STONE FOUNDATION, TRAM TO EAST, HIGH SULFIDE TAILS ON SLOPE
NAM552	43	Big Colorado	37.8769	107.6464	Y	SX	MILL BOARDS AND STEEL JUNK BELOW ADIT
NAM600	44	Burro Bridge	37.8511	107.7264	?	SX	BURNED BEAMS FOR STAMP, SOME TAILS AND ORE
NAM602	45	Lodore	37.8017	107.6725	Y	MX	LODORE MILL; SMALL TAILS REMAIN
NAM609	46	Ice Lake	37.8117	107.7822	Y	SX	WOODEN BEAM STANDING, 20 STAMPS, QUITE GOOD CONDITION
NAM618	47	Big Giant mill?	37.8294	107.6161	Y	SX	CONCRETE FOUNDATION, STEEL STUFF, AT END OF TRAM TO BIG GIANT MINE
NAM619	48	May not be a mill	37.8269	107.6278	Y	SX	WOOD FLOOR AND BEAMS, AUGER FOR TAILS, SOME TAILS
NAM624	49	Eureka old	37.8803	107.5678	Y	MX	OLD EUREKA MILL, STONE AND WOOD, 50 STAMP?
NAM625	50	Eureka new	37.8808	107.7178	Y	LX	NEW EUREKA MILL, CONCRETE, BURNED, 8-10 LEVELS
NAM641	51	Silver Lake old	37.7916	107.6212	Y	M	LARGE MILL AND TAILS SW OF SILVER LAKE
NAM960	52	Crooke mill	37.8280	107.6350	Y	S?	SITE AS SHOWN BY RANSOME (1901), COVERED BY MAYFLOWER TAILS?
TAILINGS							
NAT101		Kitti-Mack new	37.8536	107.5708	Y	MD	OCHER TAILS FROM KITTI-MAC MILL 200 M TO NE
NAT102		Fluvial tails	37.8728	107.5661	Y	LGX	HUGE TAILS IN ANIMAS FROM EUREKA MILL TO NW
NAT113		Mayflower tails	37.8272	107.6484	Y	LG	THREE IMPOUNDS, RECLAIMED, 10 MILLION TONS
NAT127		Hanson? Demo?	37.9175	107.5900	Y	SM	SMALL TAILS IN PLACER GULCH, FROM ?? MILL
NAT234		Kitti-Mac mill old	37.8622	107.5533	Y	NX	SMALL POCKET OF TAILS IN MILL
NAT258		Highland Mary	37.7886	107.5789	Y	MD	HIGHLAND MARY OCHER TAILS; STABLE IMPOUND IS A SURPRISE
NAT270		Old Hundred	37.8244	107.5864	Y	NX	OCHER TAILS FROM OLD HUNDRED MILL; NOT MUCH VOULME HERE
NAT278		Iowa mill, fluvial	37.8156	107.6181	Y?	NX	OCHER TAILS IN ARRASTRA CRK BELOW MAYFLOW MINE
NAT287		Little Giant, old	37.8061	107.5992	Y	SM	CRUDE HEAP LEACH ON TAILS FROM NAM291 STAMP MILL
NAT290		Little Giant, old	37.8050	107.5992	Y	SM	COURSE TAN TAILS IN CREEK BELOW NAM291 STAMP MILL; HI CC-QTZ-GN-CP
NAT292		Little Giant	37.8086	107.6031	Y	SM	SMALL TAILS FROM LITTLE GIANT MILL M292
NAT378		Vermillion	37.9325	107.5961	Y	SM	YEL-OCHER TAILS,CSE, CRUDE IMPOUND
NAT389		Howardsville S	37.8339	107.6006	Y	NX	RUSTY TAILS AT MILL NAM389, MOST IN ANIMAS?
NAT509		Brooklyn	37.8581	107.7111	Y	SM	POND AT BROOKLYN MINE; TAILS STABLE
NAT524		Ruby Trust	37.8442	107.7519	Y	SX	TAILS AT MILL, SLURRY DOWN HILLSIDE?
NAT528		Red and Bonita	37.8978	107.6450	Y	SM	TAN TAILS FROM R&B MILL M330
NAT529		Gold King old	37.8969	107.6450	Y	SM	GRAY HI PYRITE TAILS
NAT600		Burro Bridge	37.8511	107.7264	?	SX	BURRO MILL TAILS IN FOUNDATION, MOST GONE
NAT602		Lodore	37.8022	107.6728	Y	MX	LODORE MILL TAILS BY MINERAL CREEK
NAT609		Ice Lake	37.8119	107.7817	Y	SX	ICE LAKE STAMP MILL TAILS, VARIABLE TAN TO OCHER

NAT622	Lackawanna	37.8147	107.6525	Y	M	LACKAWANNA MILL OCHER TAILS
NAT628	Fluvial tails	37.9208	107.5597	?	?	FLUVIAL TAILS, ONE MI S OF ANIMAS FORKS
NAT706	Bagley	37.9328	107.5789	Y	MX	BAGLEY MILL TAILS, RUSTY OCHER, SMALL IMPOUND, OTHERS LOST?

Abbreviations: Mill: Y, yes, mill probable; N, no, can not find; ? Questionable;
Tailings Size: LG, large; M, medium, S, small; X, tailings lost.

INVENTORY OF MILLS AND TAILINGS IN THE UPPER ANIMAS RIVER WATERSHED: LOCATIONS, PHOTOGRAPHS, AND INFLUENCE

J. Thomas Nash
U.S. Geological Survey

Photo Tour of Mill Sites and Tailings

Photos of mills and tailings are arranged by watershed, and listed in alphabetic sequence by site name. Click on the raised rectangle to view the photo.

[Explanations: 1) Site names used here are informal and may be incorrect; some are taken from nearby geographic features. 2). Sites are coded, such as NAM104, and refer to Nash field observations which are summarized in table 1 of text; in these codes N means Nash observation; A, Animas project area; M, mill; T, tailings. 3) the second number is the digital photo code, a unique number assigned to each digital file by the camera or when scanned, with SPM or SPT, etc. added to denote mill or tailings in the Silverton area.]

UPPER ANIMAS RIVER WATERSHED

Aspen (?) mill: The faint remains shown here may be those of a mill, located in the canyon of the Animas River, about a half mile east of the Mayflower mill; it is on the old road to the Aspen mine. No tailings are evident. [NAM363, SPM423]

Bagley mill: this well preserved structure in California Gulch is at the portal of a tunnel that head northwest under Houghton Mountain to mine large veins [NAM104; SPM312]

Bagley mill tailings: this small impound of ocher tailings is a few hundred feet east of the mill, and other tailings likely were lost downslope into California Gulch creek [NAT104; SPT229]

Big Giant mill: this site on the old railroad and close to the Animas River, is at the end of a tram from the Big Giant mine. A rough foundation and some metal are all that are visible, and no tailings could be identified. Alternatively, this site could have been used to load ore on rail cars. [NAM621, SPM425]

Buffalo Boy mill: this stone foundation in Cunningham Gulch appears to be the mill that processed ore carried by the tram to the Buffalo Boy mine to the northeast. No tailings are evident. [NAM269; SPM164]

Burns mill: this obscure structure in the narrows of the Upper Animas, about 2 miles south of Animas Forks is given the name Burns for the gulch to the east of it. The structure contains several strong stands for heavy equipment and has the general appearance of a small mill. No traces of tailings were found. [NAM354, SPM203]

Columbus mill: this small mill served the Columbus mine just above it; a few tons of tailings are preserved on the south side of California Gulch creek about 200 yards away. [NAM715; SPM225]

Eclipse smelter: this early smelter is near Animas River, about 2 miles south of Animas Forks; about a ton of slag remains [NAG170; SPG205]

Eureka gulch mill: this mill processed ore trammed from the Sunnyside mine through about 1910; only traces of tailings can be found [NAM111; SPM267]

Gold Prince mill: this very large mill at Animas Forks was designed to process ore trammed several miles from the Gold Prince mine; equipment such as jig tables can be found, but not even a trace of tailings could be identified, probably because the mill did not process much if any ore and was dismantled a few years later, in 1915 [NAM103; SPM224]

Hamlet mill: this small stamp mill processed ore carried by tram and tunnel from the Hamlet mine to the southeast; the mill is about 300 yards south of Maggie Gulch (Middleton), just east of the road to Animas Forks. No tailings could be identified in the meadow and floodplain to the west. [NAM600, SPM245]

Hanson or Sound Democrat: this stamp mill in Placer Gulch has been restored and shows very well the layout of stamps that ground ore and jig tables that were used to concentrate gold and other ore minerals. I believe some reports use the name Hanson for this site, but others call it Sound Democrat. A small area of tailings is to the north, but most tailings probably went down the creek. [NAM121; SPM238]

Hanson mill tailings: this small area of tailings adjacent to Placer Gulch is about 200 yards north of the Hanson mill and probably are only part of the tailings produced by that stamp mill. [NAT121; SP4D15]

Highland Mary mill: this mill at the east end of Cunningham Gulch has burned and very little remains of the plant that operated in the 1950's. A medium-sized impound of tailings is to the west. [NAM257; SPM165]

Highland Mary tailings: these light-colored tailings are quite stable, but close to Cunningham Gulch creek. These tailings are unique in the study area for their content of calcite and because of this pose only minor problems to the creek. [NAT258; SPT167]

Howardsville mill: This mill, recently refurbished with the red metal roof, processed ore trammed from the southeast. This mill and its tailings are southwest of the larger tailings impound for the Pride of the West mill at Howardsville. [NAM388; SPM270]

Howardsville south mill: not much is left of this structure but some bricks, concrete foundations on one or two levels, and a few tons of tailings. This site is on the west side of the Animas River, next to the old railroad, about a half mile south of Howardsville. [NAM389; SPM157]

Iowa mill site ruins: apparently a pre-1900 mill with stone foundation, may be called Iowa mill, served by tram [NAM888; SPM441]

Iowa mill tailings in stream: fluvial tailings trapped in willows about ¼ mile west of mill [NAT278;SPT444]

Kitti-Mack mill tailings: these yellowish tailings are prominent between the road to Animas Forks and the river; this is the largest impound of un-reclaimed tailings in the area. [NAT101, SPT 248]

Kitti-Mack mill: the tumbled remains of this mill are prominent just east of the Animas road, about 300 yards north of Maggie Gulch (Middleton); ore was trammed from the mine several miles to the northeast [NAM101; SPM251]

Lackawanna mill and tailings: this mill and tailings are adjacent to the Animas River on the northeastern edge of Silverton; The mill is on a mill patent but the tailings are on BLM lands and are a prime concern because they are in the floodplain of the Animas River. [NAM115; SPMMT356]

Little Giant mill: this stamp mill is west of Little Giant Lake and served several mines in that basin by short trams. Longer trams later carried ores to a newer mill on the Animas River and railroad. A small amount of tailings remain in the canyon bottom. [NAM292; SSP37]

Little Giant original mill, Little Giant basin: this rough stone foundation seems to be from a very early stamp mill; a few pieces of heavy steel equipment used for grinding ore remains at the site, and tailings can be found in the stream at the inlet to Little Giant Lake. [NAM270, SPM429]

Little Giant mill tailings: the stamp mill tailings are below the mill in the creek that flows into Little Giant lake. The tailings were reprocessed in recent years. [NAT270; SPT436]

Little Giant mill tailings, reprocessed: the stamp mill tailings were placed on a plastic sheet and efforts were made to leach silver and gold from them. Note the proximity to the alpine lake. [NAT270; SPT431]

Mastodon mill near Gold Prince mine: this stamp mill may be the one called 'Mastodon' in the literature and could have processed ore from either the nearby Gold Prince or Silver Queen mines; tailings were placed in the headwaters of Placer Gulch creek—many could have been lost, and those remaining have been reclaimed [NAM376; SPM236]

Mayflower mill: this is the largest mill in the area, and also the one that operated most recently and consistently from the 1935 through 1991. It originally worked ore trammed down from the Shenandoah-Dives mine about three miles to the east, and for many years worked on ore hauled by truck from the Sunnyside mine at Gladstone. The tailings were among the first to be impounded in the 1930's in engineered ponds that minimized input of solids into the Animas River and recycled water back to the mill. More than 10 million tons of tailings were stacked on a series of three ponds, which were reclaimed in 1997. [NAM113;SPM156]

Minnie Gulch stamp mill: this ten stamp mill at the southern end of Minnie Gulch is remarkable for its remote location and preserved heavy equipment, but little remains of the building. No traces of tailings could be found. [NAM299, SSP38]

New Eureka mill: this large concrete mill was built in 1915, adjacent to the smaller mill at Eureka, to serve the Sunnyside mine. New selective floatation equipment in this mill allowed economic recovery of zinc (sphalerite) from 'low grade' ores. Tailings from this mill were placed in the floodplain of the Animas River, and major storms in 1928 and other years eroded the tailings and carried them for tens of miles downstream. [NAM625; SPM195]

Old Eureka mill: the original mill at Eureka may have utilized water power. It was replaced by a larger mill in 1915. Tailings were placed on the Animas River floodplain, or run into the river, before there were any regulations against this practice. [NAM624, SPM197]

Old Hundred mill: the concrete foundation below the haulage level appears to be from the mill; a few tons of tailings are below the mill, adjacent to Maggie Creek, and the remains of a wooden trough or sluice angles gently down to the east of the mill and a small amount of tailings were found in willows adjacent to the creek near the projected end of the sluice. [NAM252, SPM473]

Old Kitti-Mack mill: the stone foundation with several levels clearly was an early mill as it is situated in a place that would provide water power; a few hundred pounds of tailings remain in the foundation, but no others could be located. A tram cable may have connected with the mines to the east, including the Kitti-Mac. [NAM234, SPM254]

Pride of the West mill: this fairly modern mill operated after World War II. The tailings are west of the Animas Fork Road. [NAM112;SPM162]

Pride of the West tailings: the large impound formerly extended across the Animas River. These tailings are on the west side of the Animas River. [SPT275]

Silver Lake mill on Silver Lake: this large mine and mill complex at the southwest corner of Silver Lake produced a large volume of dump waste and mill tailings that were poured out between the mill buildings and into the lake. Much of the milling equipment, such as stamps, jig tables, and amalgamation rollers can be seen. This mill operated from about 1890 to 1900. [NAM641; SPT10]

Silver Lake mill: this very large mill on the Animas, and on the railroad, processed ore trammed from Silver Lake. It was built in 1899. No tailings are evident. [NAM114, SPM447]

Silver Ledge mill: A mill for the Silver Ledge mine is reported in several publications and operated from about 1900 to 1920. The traces shown here may be for that mill, and no other site is likely. No tailings could be found. Another mill in this vicinity is reported in literature to have operated in the 1890's, but could not be located on the field. [NAM424; SPM474]

Silver Wing mine and mill: this mine and mill complex was designed to produce ore from the Tom Moore mine area to the east in Burns Gulch by way of a deep tunnel. The stone foundation of a mill is below the dumps, and no tailings could be located. If the mill was a significant producer, the

tailings went into Animas River, but the mill may have been one of the numerous speculative ventures in the region that never reached their target. The mill and tunnel existed in 1899 but the ore target had not been reached (Ransome, 1901). [NAM356; SPM313]

Treasure Mountain mill: this fairly modern (1940's?) mill was part of a mining venture that appears to have failed to reach its target deep under Treasure Mountain. The mine may also go by the names Picayune Gulch and Sandiago. The mine dump is fairly large (but lean of ore) and no trace of tailings could be found. [NAM164; SPM305]

Vermilion mill: only a small amount of concrete remains of a mill adjacent to the Vermilion tunnel and its waste dump. A few tons of tailings are on the slope below the mill (between the California Gulch Road and the creek). This mill probably was not a big producer. [NAM378, SPM233]

CEMENT CREEK WATERSHED

Big Colorado mine and mill: the mining complex on the South Fork of Cement Creek had a stamp mill close to the main tunnel. Timbers and assorted steel equipment lie in the ruins. Only traces of tailings could be identified. [NAM552; SPM14]

Gladstone mill (Mogul, Gold King): this large cement foundation at Gladstone was connected by trams that went north to the Mogul mine and southwest up Prospect Gulch, and also served the Gold King by a tram to the east. No tailings could be identified, but could be present in the wetlands to the east (and possibly reclaimed in recent years). This mill did not service the Sunnyside mine, although the American Tunnel to the Sunnyside was later constructed a short distance to the northeast. [NAM116; SPM301]

Gold King mill: this site is to the right of the Red and Bonita mine and mill, at the edge of the trees. It appears to be an early stamp mill which processed ore trammed down from the Gold King mine to the east. Tram cables, some metal parts, and traces of tailings can be identified. Later, the Gold King ore was trammed to the large mill at Gladstone. [NAM529; SPM299]

Greene smelter: the site of this smelter, a fairly productive one in the 1890's, reveals no remains of the structure, but a substantial amount of slag is spread across several acres, much of it crushed to sand size for some unknown application.[NAG177, SPG150]

Lead Carbonate new mill: a new mill for the Lead Carbonate mine was built at Gladstone in the 1940s. Tailings could not be identified, but could be in the valley (wetlands) to the south, and may have been reclaimed in the mid-90's. [NAM117; no photo available]

Lead Carbonate original mill: this mill at the mine site was beset by avalanche problems and apparently did not operate for many years. A few tons of tailings are in the valley to the southwest. [NAM409; no photo available]

Red and Bonita mine, mill and ferricrete: a few charred beams, some steel pieces, and a few tons of tailings are the scant remains of a mill below the Red and Bonita mine. Another mill, possibly

earlier, was a few hundred feet to the southeast (right in picture), but it seems to have worked ore from the Gold King mine as tram cables on the ground head east from that mill site. [NAM330, SPM299]

Yukon mill tailings pond: this series of two ponds collected tailings from the Yukon mill, and also serves as a settling pond for runoff. It collects and contributes to acidic, metal-rich drainage. [NAT414, SPT418]

Yukon mill: the Yukon mine was a bold mining venture with a tunnel deep under Storm Peak, and active enough to produce a large volume of mine waste after WWII. The mill is a fairy modern one, but the small amount of tailings retained to the west suggest that the mill was not a big producer. [NAM414; SPM422]

MINERAL CREEK WATERSHED

Bandora mill: this concrete foundation has the multiple levels typical of a mill; only traces of tailings were found, suggesting that this 1940's era mill did not operate much if at all [NAM401; SPM458]

Burrow bridge mill: these burned beams, some sulfide ore, and traces of tailings are all that remains of this probable mill site downstream from the present Burro Bridge; these vertical beams are of the style used to support stamps in pre-1900 stamp mills [NAM603; SPM352]

Brooklyn mill: this small mill appears to have operated in the 1960's and pumped its tailings to small impounds on the east side of Browns Gulch [NAM509; SPM190]

Brookyn mill tailings: these small ponds contain tailings that were pumped across the creek in a plastic pipe. Water in the ponds is mostly runoff and not highly degraded, but the pore water in tailings is acidic and rich in metals (Nash, 1999B). [NAT621; SPT189]

Ice Lake stamp mill: this picturesque mill is a popular stop for hikers on the trail to Ice Lake. The mill probably used water power. A trace of tailings can be found, but most seem to have been washed down the stream. [M609, SPM13]

Lodore mill: the remains of this mill can be seen just south of Silverton, on the south side of Mineral Creek and adjacent to the Lodore mine; a small area of tailings remain on the bank of Mineral Creek . [NAM602;SPM315]

North Star mill: visible from US550 southwest of Silverton, this mill on Mineral Creek processed ores from the large North Star mine. No tailings are visible adjacent to the mill. [NAM302; SPM322]

Ruby Trust mill: these collapsed beams and pieces of steel are from a stamp mill for the Ruby Trust mine, a short distance to the west of the lowest mine level. Two jig tables can be discerned in the ruins, traces of tailings are in the ruins, but no tailings remain below the mill and one must presume that they have been carried down the Middle Fork of Mineral Creek. NAM524; SPM181]

Walshe Smelter: this smelter southwest of Silverton was built in 1894 and ran for about three years. No remains of the structure remain, but slag is abundant (much is finely ground). [NAG299; SPG318]

MISCELLANEOUS FEATURES REALTED TO MILLING:

Grinding devices of several types were used to make the sand-size material for processing in the mills. This set of grinders is in the rehabilitated Hanson mill in Placer Gulch [NAM107; SPM239]

Jig tables were used to concentrate gold and other heavy ore minerals. These table are in the Hanson mill, Placer Gulch. [NAM107; SPM240]

A variety of metal devices is found in some old mills, such as the Silver Lake mill at Silver Lake. The cylindrical devices probably were used in the amalgamation process to recover gold. [NAM 641; SPM11]

Wooden tram tower: towers like this were used to support the long cables (wire rope) used to carry ore down from mines above treeline. This one is part of the tram from the Big Giant mine. [SPM428]

Steel tram tower: the later trams were refined and high above the ground. This is part of the tram from the Shenandoah-Dives mine to the Mayflower mill. [SPM446]

Geology and Ore Deposits of the South Silverton Mining Area, San Juan County, Colorado

GEOLOGICAL SURVEY PROFESSIONAL PAPER 378-A

Prepared in cooperation with the Colorado Metal Mining Fund and the Colorado Geological Survey Board

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By DAVID J. VARNES

SOUTH SILVERTON MINING AREA, SAN JUAN COUNTY, COLORADO

GEOLOGICAL SURVEY PROFESSIONAL PAPER 378–A

Prepared in cooperation with the Colorado Metal Mining Fund and the Colorado Geological Survey Board

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CONTENTS

	Page
Abstract	A1
Introduction	1
Location and geography	1
Previous studies	3
Fieldwork	4
Purpose of the work	4
Acknowledgments	4
Outline of geologic history	5
Precambrian rocks	7
Paleozoic sedimentary rocks	8
Ignacio quatrzite	8
Elbert formation	8
Leadville limestone and Ouray limestone	8
Pennsylvanian system	8
Tertiary bedded rocks	9
Telluride conglomerate	9
San Juan tuff	9
Silverton volcanic series	10
Eureka rhyolite	10
Burns quartz latite	13
Pyroxene-quartz latite	14
Tertiary intrusive rocks	15
Quartz monzonite	16
Andesite and latite	17
Granite porphyry	17
Rhyolite	19
Quaternary deposits	19
Structure	19
Precambrian structures	19
Paleozoic and Mesozoic structures	20
Tertiary structures	21
Silverton caldera and subsided block	21
Ring-fault zone	23
Fracturing outside of the ring-fault zone	23
General features	23
Concentric system	24
Western shear system	26
Northwestward-trending group	26
Northeastward-trending group	27
Diagonal group	28
Structure—Continued	
Tertiary structures—Continued	
Fracturing outside of the ring-fault zone—Con.	
	Page
Eastern shear system	A29
Eastern arcuate (epicycloidal) group	30
Northwestward-trending (hypocycloidal) group	31
Approximately radial group	31
Dips and evidence for reverse faulting	33
Ore deposits	35
History of mining and production	35
Veins	36
Areal distribution	36
Mineralogy and zoning	36
Veins of the concentric system	41
Veins of the western shear system	41
Northeastward-trending group	41
Northwestward-trending group	41
Titusville (Letter G) vein	41
Silver Lake vein	42
Royal Tiger vein	44
Shenandoah-Dives vein system	44
Northwestward-trending veins of Little Giant Basin	46
Diagonal group	46
Scranton City vein	46
Silver Lake footwall veins	46
Diagonal veins of Little Giant and Dives Basins	47
Veins of the eastern shear system	47
Little Nation vein	47
Pride of the West vein	48
Oxidation of vein minerals	48
Influence of wallrock	48
Replacement deposits	48
Disseminated deposits	49
Suggestions for future prospecting	51
Use of the claim map	52
References cited	52
Index	55

ILLUSTRATIONS

[All plates in pocket]

PLATE 1. Geologic map and sections of the South Silverton mining area.
2. Map showing principal mining workings.
3. Vertical projection of Shenandoah–Dives workings.
4. Geologic map of Little Nation mine.
5. Geologic map of Pride of the West mine.
6. Vertical sections of Pride of the West mine.
7. Claim map of the South Silverton mining district.

Page

FIGURE 1. Index map showing location of the South Silverton mining area ... A1
2. View of Bakers Park and Silverton ... 2
3. View of peaks, ridges, and cirques in the northern part of the South Silverton mining area ... 3
4. V-shaped canyon of the Animas ... 7
5. View northward down Cunningham Gulch ... 11
6. View of west side of Cunningham Gulch ... 12
7. View across Animas Valley from Cement Creek toward Swansea Gulch ... 18
8. View of inner canyon of the Animas River ... 20
9. Generalized geologic map of part of Silverton caldera area ... 22
10. View southwestward from Howardsville toward King Solomon Mountain ... 24
11. Map showing principal fracture systems ... 25
12. Silver Lake vein system ... 29
13. Results of an experiment by Riedel ... 31
14. Comparison of actual and theoretical fault patterns ... 32
15. Sketch of granite porphyry dikes and Titusville vein ... 33
16. Simplified relations of Shenandoah vein system ... 34
17. Map and section of the Shenandoah-Dives vein system ... 34
18. Production record, 1900–57, South Silverton mining area ... 35
19–22. Relations among metals:
19. Aspen mine ... 38
20. Little Nation mine ... 39
21. Shenandoah-Dives mine ... 40
22. Highland Mary mine ... 40
23. View northwestward across Silver Lake ... 43
24. View of Arrastra Gulch ... 45
25. View of south face of Little Giant Peak ... 47
26. Geologic map of upper levels of Osceola mine ... 49
27. Sketch of Marcella mine ... 50

TABLES

Page

TABLE 1. Analyses, norms, and modes of Eureka rhyolite and similar average igneous rocks ... A10
2. Analyses, norms, and modes of Burns quartz latite, dike rocks, and similar average igneous rocks ... 14
3. Analyses, norms, and modes of pyroxene-quartz latite and of similar average igneous rocks ... 15
4. Analyses, norms, and modes of quartz monzonite, granite porphyry, and similar average igneous rocks ... 16
5. Results of physical tests performed on sample HV–12–46 of quartz monzonite ... 17
6. Production from 1901 through 1957 of the principal mines of the South Silverton mining area in terms of total metal in direct smelting ore and concentrates ... 35
7. Silver-to-gold ratio of ore extracted from several veins ... 38

GEOLOGY AND ORE DEPOSITS OF THE SOUTH SILVERTON MINING AREA, SAN JUAN COUNTY, COLORADO

By DAVID J. VARNES

ABSTRACT

The South Silverton mining area is in the western part of the San Juan Mountains, San Juan County, in southwestern Colorado. The area, which includes about 18½ square miles, has produced ores of gold, silver, lead, copper, and zinc having a gross value of more than $61 million.

The western part of the San Juan Mountains has been carved by glaciers and streams from a great domed volcanic field. Flows, tuffs, and breccias of rhyolitic, andesitic, and latitic composition having a maximum thickness of nearly 1 mile rest horizontally upon older tilted and eroded metamorphic and sedimentary rocks. The metamorphic rocks are Precambrian schist, gneiss, quartzite, and slate. The sedimentary rocks range in age from Cambrian to Late Cretaceous. Minor igneous activity occurred in Late Cretaceous or early Eocene time in some parts of the San Juan Mountains, but the great bulk of volcanic material accumulated during the middle and late parts of the Tertiary period. The volcanic rocks have been intruded by many stocks and irregular bodies of quartz monzonite, by many dikes of andesite and latite, by a few dikes of granite porphyry, and by one of rhyolite.

The Silverton region is the site of the dominant geologic feature of the western San Juan Mountains—the Silverton caldera, a roughly elliptical basin that formed in middle Tertiary time. Local areas within the basin subsided but filling by flows and small intrusions more than kept pace with subsidence. One of these areas of subsidence, about 8 by 10 miles, more or less elliptical in outline, and bounded by faults, lies at the north edge of the area covered in this report. The rocks within 2 or 3 miles of the southern periphery of the subsided block are broken by fractures that controlled ore deposition within the South Silverton mining area. The forces causing fracturing are believed to have acted radially from the subsided block.

Three systems of fractures were formed. The first is a system of unmineralized concentric fractures and dikes that are parallel to the border of the subsided block. The second, or western shear system, includes a group of mineralized northwestward-trending shear fractures and some andesite or latite dikes, a group of unmineralized complementary northeastward-trending shear fractures, and a group of very productive north-northwestward-trending tension fractures. The third, or eastern shear system, includes a group of arcuate granite porphyry dikes and a group of productive northwestward-trending veins along the eastern border of the area and east beyond the map area.

Almost all the metalliferous deposits are in veins. These range in size from a few inches wide to broad zones more than 100 feet wide, of closely spaced veins. The ores are predominantly low-grade ores of gold, silver, and base metals in minable bodies from a few tens to several thousands of feet long. Almost all the production has come from a triangular area bounded on the north by the subsided block of the caldera, on the south and west by a large northwestward-trending shear fracture, and on the east by the arcuate group of dikes.

The chief vein minerals are pyrite, galena, sphalerite, chalcopyrite, and tetrahedrite-tennantite in a gangue of quartz and minor amounts of calcite. Native gold, argentiferous galena, and argentiferous gray copper ore have accounted for most of the dollar value of products from the veins.

Small ore bodies of the replacement type are found within limestone of Mississippian and Devonian age near some of the larger veins and intrusive bodies.

INTRODUCTION

LOCATION AND GEOGRAPHY

The South Silverton mining area is immediately southeast of the town of Silverton, San Juan County, in southwestern Colorado (fig. 1). The town of

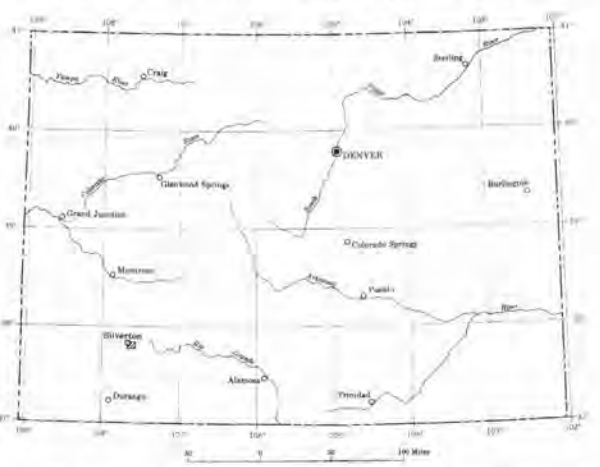

FIGURE 1.—Index map of Colorado showing location of the South Silverton mining area, San Juan County, Colo.

FIGURE 2.—Bakers Park and Silverton viewed from the southwest. U.S. Highway 550 curves at the lower left; Cement Creek enters Bakers Park at the middle left and joins the Animas River at the right. The mountains in the background consist of Burns quartz latite overlain by pyroxene-quartz latite and are within the subsided block of the Silverton caldera. The ring-fault zone trends down the Animas Valley from the Shenandoah-Dives mill, at right center, toward Silverton.

Silverton itself lies in a relatively flat and open reach of the Animas Valley, called Bakers Park, in the western part of the San Juan Mountains. (See figs. 2 and 8.) The roughly circular area of the geologic map map (pl. 1) includes about 18½ square miles of the mountainous country southeast of Silverton. It is bounded on the west and north by the Animas River, on the east by Cunningham Creek, and on the south by Mountaineer Creek and Deer Park Creek. Altitudes range from 9,125 feet above sea level in the canyon of the Animas, at the southwest corner of the area, to 13,451 feet on Kendall Peak, 2¾ miles to the northeast.

Within this area nearly a dozen horn-like peaks and sharp ridges separated by deep glacial cirques rise to altitudes of 13,000 feet or more. (See figs. 3, 7, 10, and 24.) Exposures are excellent along the crests and upper flanks of the ridges, but the bedrock along the lower parts of the valley walls and floors of the cirques is largely concealed by accumulations of talus. The timbered slopes along the south side of the Animas Valley are extensively covered with glacial moraine. Several of the high basins within the cirques hold ponds or small lakes; the largest is Silver Lake (fig. 23).

Roads skirt the northern and eastern edges of the area but none give good access into the interior. Silverton is adjacent to U.S. Highway 550, which passes over the mountains by way of Red Mountain Pass from Ouray, 24 miles to the north, to Durango, 53 miles to the south. The community is also served by the narrow-gage line of the Denver and Rio Grande Western Railroad that follows the Animas River upstream from Durango. A gravel road, State Highway 110, follows the Animas River upstream, eastward from Silverton. From this highway a side road branches off to Cunningham Gulch as far as the Highland Mary mill, and another goes up Arrastra Gulch for about 2 miles. The higher ridges east of Arrastra Basin are most easily reached by way of the Shenan-

doah-Dives aerial tram and mine workings. A few trails suitable for horses lead from the main valleys into the larger basins and across the intervening ridges, but much of the area is accessible only on foot. Most of the cirque heads and many of the high cliffs along Cunningham Gulch could not be examined at close range. Timberline is at about 11,500 feet.

PREVIOUS STUDIES

The geology and ore deposits of the western San Juan Mountains have been under study intermittently for the past 60 or 70 years by many geologists and mining engineers. The principal reason for the studies is their application to finding and mining the ores, but the entire region displays the results of earth deformation and volcanic activity so well that it also has long been the subject of more purely scientific investigations. The literature of geologic work bearing directly or indirectly upon the Silverton area may be divided roughly into three groups on the basis of time, the points of division being the appearance of major studies about 1900 by Cross and Ransome, and in 1933 by Burbank.

Works published before about 1900 are mostly of a general nature; they contain occasional references to the rapidly developing mining industry of the region but are of interest principally as a record of data that can no longer be obtained elsewhere. Among these are reports and articles by F. M. Endlich (1876), T. B. Comstock (1883), S. F. Emmons (1888), and T. A. Rickard (1903).

F. L. Ransome (1901) made the first detailed study of the mineral deposits. His work was followed by the Silverton folio (Cross, Howe, and Ransome, 1905), in which the results of several years of geologic mapping were combined with a summary of the mineral de-

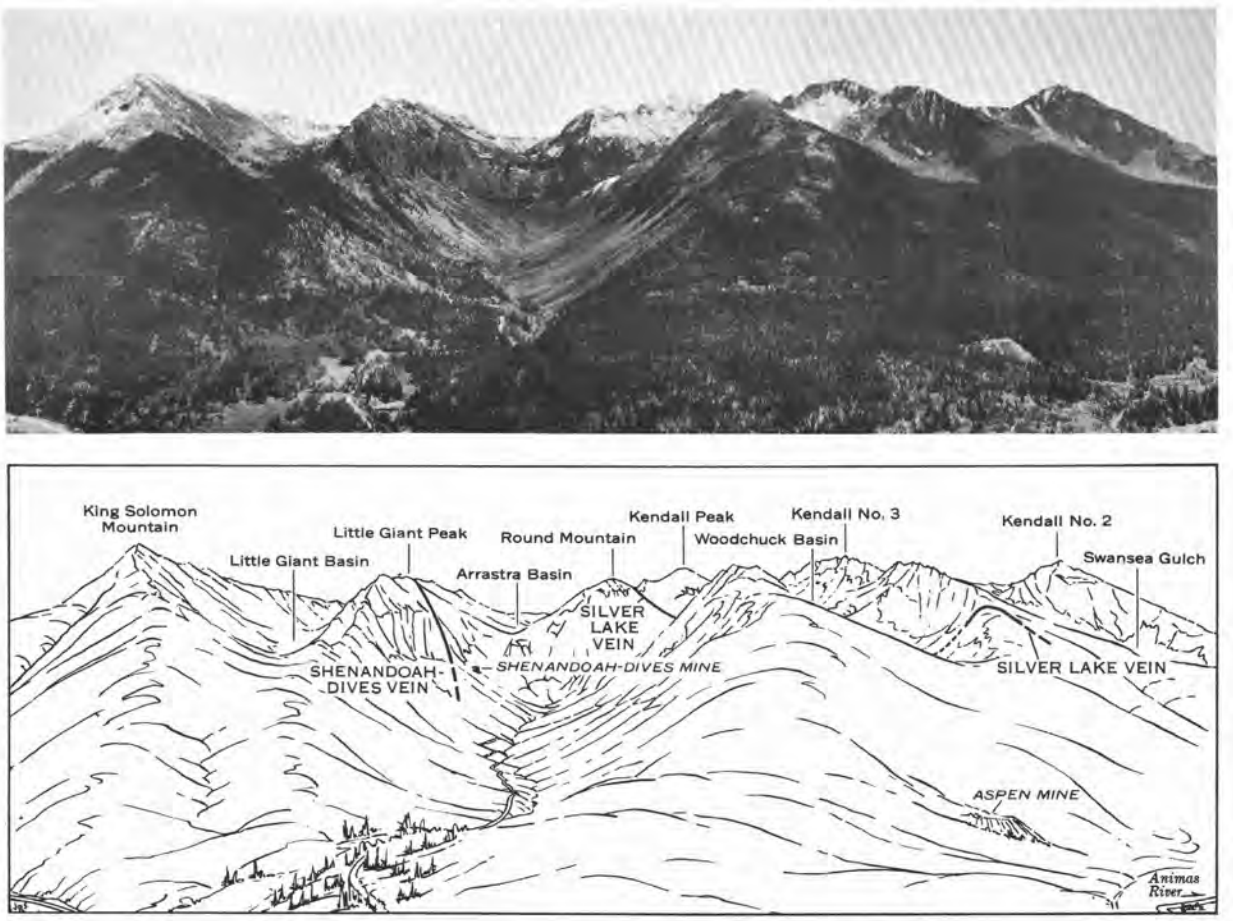

FIGURE 3.—Sketch and view southward of hornlike peaks, sharp ridges, and deep glacial cirques in the northern part of the South Silverton mining area from a point above the Shenandoah-Dives mill on the north side of the Animas Valley. The timbered south slope of the Animas Valley is in the foreground.

posits. About 1905 there began a period of transition in which shallow mining and shipping of crude ore slackened and operations were consolidated into fewer and larger mines with facilities for milling large tonnages of ore. This trend continued for many years, and accounts of the development of the larger mines of the district may be found in papers by W. C. Prosser (1914) and C. A. Chase (1929). An excellent summary of the mining activity is contained in C. W. Henderson's Mining in Colorado (1926).

Geologic mapping of this mining district at a scale of 1 inch to 1,000 feet was started in Arrastra Basin in 1932 by W. S. Burbank. His report and progress map at a scale of about 1 inch to 2,000 feet covered the more heavily mineralized area of Arrastra Basin and vicinity (Burbank, 1933a) and marked the beginning of some correlation between regional structure and the vein systems in the heavily mineralized sector southeast of Silverton.

This paper was followed by others referring to San Juan ore deposits (Burbank, 1933b, 1935, 1940, 1941, 1951; Burbank, Eckel, and Varnes, 1947; Kelley, 1946; and Varnes, 1948). Cook [1] and Hagen [2] made detailed studies of some of the ore deposits that lie just east of Cunningham Gulch. Their work is referred to in the sections on Tertiary structure and ore deposits. Several articles on Silverton have appeared in the yearbooks of the Colorado Mining Association. The geology of the whole San Juan region was summarized by Cross and Larsen (1935) and more recently described in a comprehensive study (Larsen and Cross, 1956).

FIELDWORK

After Burbank's early work no further mapping was done in the South Silverton area until 1945. In June of that year G. M. Sowers and the author began enlargement of Burbank's geologic map to complete the area covered by the special topographic sheet "Silverton and vicinity" (scale 1 inch to 1,000 feet). The mapping was completed in 1946 with the assistance at various times of Waldemere Bejnar, Eduardo Mapes, and Leonard Rolnick. The area was briefly revisited in 1952 to obtain some additional data that concerned the theoretical analysis.

The detail of the topographic sheet allowed most geologic features to be located by inspection. Much of the geologic mapping was, however, controlled by planetable and alidade and by supplementary altitudes obtained with an aneroid barometer. Some locations were made by compass bearings and resection; but the compass needle occasionally was deflected as much as 14° by the magnetic properties of the volcanic rocks. Many of the less important features, such as the boundaries of talus and other surficial deposits, were mapped with the aid of a graphic locator (Varnes, 1946). This technique was developed and tested during the mapping of this area.

The aerial photographs available at the time of mapping were unsuited to geologic work, but they did aid in planning traverses. Excellent aerial photographs were taken in 1951. These and the multiplex topographic sheets prepared from them were studied closely, but they appear to require no significant revision of the 1931 topographic base or of the geologic mapping.

PURPOSE OF THE WORK

The purpose of the Geological Survey's program of mapping parts of the western San Juan at a scale of 1 inch to 1,000 feet has been first, to present a geologic framework within which more detailed data may be fitted; second, to indicate the pattern of mineralized fractures and the areas where successful exploration is unlikely; and third, to furnish basic data and maps of a convenient scale for future planning and development. The more specific objectives of mapping southeast of Silverton were to extend knowledge of the rock types, the dike and vein systems, and the mineral deposits around the southern periphery of the Silverton caldera. As mapping progressed beyong Arrastra Basin, it became apparent that the major geologic problem was the structural control of ore deposition. The main emphasis therefore has been placed upon study of the fracture patterns of the area, their origin and their relation to the ore deposits, rather than upon the details of the ore deposits themselves. Theoretical studies on the possible origin of the fracture patterns resulted in preparation of an accompanying report (Varnes, 1962).

ACKNOWLEDGMENTS

It is a pleasure to express appreciation for the many courtesies and ready assistance extended by mine operators, county officials, and many other residents of the Silverton area. The continued interest of the late Charles A. Chase was of special value. Among my colleagues, the advice of W. S. Burbank, under whose general direction the work was done, and of R. G. Luedke and E. C. Robertson has been most helpful. Mr. Burbank's reports on the regional structure of the Telluride and Silverton districts (1933a, 1941) provided a firm basis for an understanding of the present

[1] Cook, Douglas R., 1952, The geology of the Pride of the West vein system: Ph.D. thesis (no. 747), Colorado School of Mines.

[2] Hagen, John C., 1951, The geology of the Green Mountain mine, San Juan County, Colorado: M.A. thesis (no. 727), Colorado School of Mines.

and future geologic work, and his report on Arrastra Basin (1933a) presents a geologic picture that may be extended with only minor additions or changes to the surrounding area covered by this more recent work. Repetition of some of the general data obtained by Burbank and others is inevitable, but many of the details of the Arrastra Basin area already published are not repeated here.

This study, like the earlier work by Burbank, was made with financial cooperation from the Colorado State Geological Survey Board and the Colorado Metal Mining Fund.

OUTLINE OF GEOLOGIC HISTORY

The rocks of the western San Juan Mountains present a long and fairly complete record of the geologic events that have affected this region from very ancient to recent geologic time. Within any small area, such as that covered in this report, only fragments of the record may remain or be exposed for observation. So the following brief outline of geologic history necessarily is derived from previous studies by other geologists over the greater part of southwestern Colorado. The relation of the South Silverton mining area to the whole is then summarized.

Precambrian rocks of great variety and complex structure occur in the San Juan Mountains. They may be divided into four major units, which are from youngest to oldest: granitic rocks, the Needle Mountains group (mostly quartzite and conglomerate), the Irving greenstone, and ancient schist and gneiss. Several stages of mountain building, intrusive and extrusive igneous activity, and erosion are recorded during this period. At the end, a long period of erosion extending into Cambrian time wore the land to a smooth plain that was later submerged beneath the sea.

A thin layer of gravel and sand, now hardened into Ignacio quartzite of Late Cambrian age, accumulated on the beveled surface of the Precambrian rocks. This was followed by a succession of other Paleozoic strata, including Upper Devonian shale and limestone; Mississippian marine limestone; Mississippian and Pennsylvanian shale, limestone, and sandstone; and Permian sandstone, shale, and limestone. This succession of Paleozoic strata is without angular unconformity, but there are several disconformities and gaps in the sedimentary sequence. Cambrian rocks are absent in the far eastern part of the San Juan Mountains, where Ordovician limestones and sandstones lie directly on the Precambrian rocks. In the western part of the San Juan Mountains, Ordovician, Silurian, and Lower and Middle Devonian beds are missing. A period of uplift and erosion that followed deposition of the Mississippian Leadville limestone is generally represented in the western part of the San Juans Mountains by the deeply weathered karstlike upper surface of this limestone. Upon this surface lies the reddish residuum and shale of the Molas formation of Pennsylvanian age.

Continental deposition continued into the Mesozoic era with apparent regularity over most of this area. At Ouray, however, the Upper Triassic Dolores formation lies in angular unconformity upon inclined strata of Permian and older age, indicating, according to Burbank (1940, p. 197), an ancestral (late Paleozoic) domal uplift of the San Juan Mountains with local subordinate radial axes of uplift in the Uncompahgre district. A later period of intense local crumpling and extensive erosion before deposition of the Entrada sandstone and Morrison formation of Late Jurassic age is recorded in the eastern part of the San Juan Mountains. Elsewhere the sequence is without this angular unconformity, and, where exposed, it continues regularly through a thick series of Cretaceous terrestrial and marine sandstone and shale beds. Altogether, about 9,000 feet of Mesozoic strata were deposited over most or all of the San Juan region.

The San Juan region was again uplifted near the end of the Cretaceous period into a great dome and subjected to deep erosion. At the end of the Cretaceous period or in early Tertiary time began the first of the many periods of intrusive and volcanic activity that characterize the Tertiary history of the San Juan Mountains. This initial period of intrusion produced the dikes, sills, laccoliths, and small plugs of granodiorite porphyry near Ouray, together with genetically related ore deposits.

After a period of structural unrest, the region was again eroded to a surface of low relief. Sand and gravel of variable thickness and composition were deposited on parts of this surface. In the western part of the San Juan region this indurated detritus is called the Telluride conglomerate of Oligocene(?) age, and the surface on which it rests is known as the Telluride erosion surface. Another considerable period of erosion may have occurred between the deposition of the Telluride conglomerate and the deposition of the San Juan tuff. The San Juan tuff, of Miocene(?) age, overlies the Telluride conglomerate without angular unconformity where the latter is present, and it rests on a very irregular surface of pre-Tertiary rocks where the conglomerate is absent. The tuff attains a maximum thickness of nearly 3,000 feet near Ouray. The San Juan tuff was followed, after an interval of erosion, by a complex sequence of lavas, tuffs, and ag-

glomerates, known as the Silverton volcanic series of Miocene age, which are thickest within a basin-shaped volcanic depression known as the Silverton caldera. Volcanic activity, represented by the Potosi volcanic series (middle or late Tertiary) and younger formations, continued with intervals of erosion, in various parts of the San Juan Mountains through Miocene, Pliocene, Pleistocene, and possibly into Recent time. The result was a great dome or plateau of volcanic rocks over 100 miles across and more than a mile thick.

Faulting, fissuring, and intrusive activity, followed by formation of the major ore deposits of the San Juan mining region, occurred in late Tertiary time—Miocene or later—for many of the veins and intrusive rocks cut rocks of the Potosi volcanic series.

One of the periods of erosion during late Tertiary time was of sufficient duration to reduce the whole region to a surface of low relief, the San Juan peneplain of Pliocene(?) age. A few mountains 1,000 feet or more in height rose above this gently rolling surface. The surface was partly covered by debris from extensive volcanic eruptions, the Hinsdale formation of Pliocene(?) age, and then again domed, faulted, and gently tilted to the east during an uplift that marked the transition from Tertiary to Quaternary time. This uplift took place in two main stages. The first stage was followed by erosion to a mature topography, the Florida erosion surface, and later by the Cerro stage of glaciation. The Cerro glacial stage was followed by a second stage of uplift, the Canyon cycle of erosion, and the Durango glacial stage. The Durango glacial stage was succeeded, in turn, by slight doming and by the third and last glacial stage referred to by Atwood and Mather (1932) as the Wisconsin. The present topographic form of the San Juan Mountains is the result of these several cycles of uplift, and erosion by ice and water during the Pleistocene. Since the retreat of the Wisconsin glaciers, some streams have renewed cutting and have deepened their valleys as much as a few hundred feet. For a full discussion of the physiographic history of the San Juan Mountains the reader is referred to the work of Atwood and Mather (1932). The glacial chronology has been revised by Richmond (1954) who refers the Cerro, Durango, and Wisconsin glacial deposits of Atwood and Mather respectively to the pre-Wisconsin, early Wisconsin (Iowan and Tazewell), and late Wisconsin (Cary and Mankato).

Silverton lies in the west-central part of the San Juan Mountains, and its geologic setting is the combined result of most of the geologic events mentioned previously. Precambrian gneiss and granite are exposed in the Animas Canyon south of Silverton (fig. 4). The Needle Mountains group and the Irving greenstone, however, crop out in the Needle Mountains, a few miles south of the area. Paleozoic sedimentary rocks are represented by the Ignacio quartzite, Elbert formation, Ouray and Leadville limestones, and by a few feet of Hermosa formation. In the southwestern part of the South Silverton area, the Tertiary volcanic rocks overlie the relatively thin sequence of Paleozoic rocks with angular unconformity; elsewhere in this area the volcanic rock rest upon gneiss and schist. The late Paleozoic deformation recorded at Ouray may have extended into this area and contributed to the steep dip of the Paleozoic rocks. Certainly the area southeast of Silverton was involved in the broad doming at the end of the Cretaceous. In fact, the mapped area may be on the north flank of a somewhat sharper subsidiary uplift having its axis in the present site of the Needle Mountains. When the erosion that produced the Telluride surface removed tilted Mesozoic and upper Paleozoic rocks from this area, the remaining lower Paleozoic rocks were beveled to a wedge that thins to the south. Evidence of late Mesozoic or early Tertiary intrusive activity and mineralization, such as found at Ouray, has not been recognized in the Silverton area.

The Telluride conglomerate was not found during the present mapping and is presumed to have been removed by erosion preceding or concurrent with eruptions of the San Juan tuff. San Juan tuff is present, although its thickness varies greatly and is small relative to that at Ouray. The wide range in thickness is due, in part at least, to erosion that followed deposition of the San Juan tuff and preceded eruption of the Silverton volcanic series. The lowest and highest units of the Silverton volcanic series are missing, but the middle part is well represented by the flows and agglomerates that form the great body of the mountains in the mapped area.

Late Tertiary structural events, including faulting, fissuring, and a type of large-scale subsidence peculiar to a few areas of the western San Juan Mountains, exerted strong control over the localization of ore deposits in the South Silverton area. Dikes and stocks of late Tertiary andesite, latite, granite porphyry, and quartz monzonite are common. Extrusive rocks of the Potosi volcanic series and younger formations are now lacking although they may once have covered most of the area.

Finally, erosion by glaciers and running water during the Pleistocene was particularly effective at Silverton, producing a valley wide enough and flat enough to contain the town, yet surrounding it with mountains of unusual grandeur.

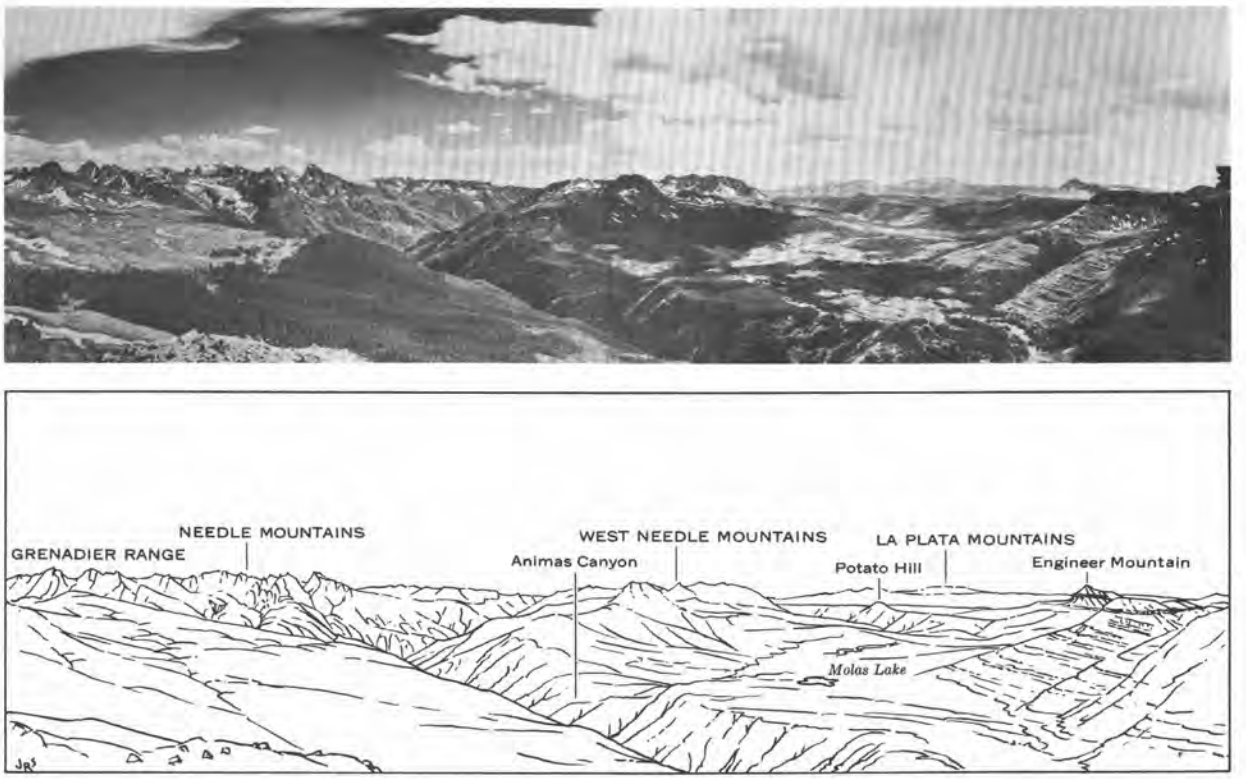

FIGURE 4.—Sketch and view southward of the V-shaped canyon of the Animas cut into Precambrian gneiss and granite. The flat area around Molas Lake at right center is thinly mantled by lower Paleozoic sedimentary rocks. Tilted Pennsylvanian and Permian strata crop out on slopes that rise to the right. The flat-topped ridge at the right is capped by flat-lying Telluride conglomerate and San Juan tuff. Engineer Mountain is on the skyline at right and the La Plata Mountains appear in the distance at right center. The Needle Mountains are in the distance on the left. Taken with phototheodolite from Kendall No. 2 Peak.

PRECAMBRIAN ROCKS

The oldest rocks in this area are Precambrian schist and gneiss. They are well exposed in the canyon of the Animas River below Silverton. They also crop out along the southern border of the area, and in the upper part of Cunningham Gulch in the southeastern part of the area. (See fig. 5.)

Banding is nearly everywhere a conspicuous feature of the Precambrian rocks. It is due to regular variation in the relative proportion of light minerals (feldspar and quartz) to the dark minerals (biotite and hornblende). The large bands, generally several feet to many tens of feet wide, probably reflect differences in composition of the original rocks. Small bands and foliae 1 mm or less wide probably resulted from recrystallization of the original rocks under high heat and pressure. Crushing and recrystallization have removed nearly all traces of original structure from the schist and gneiss, but from the overall banded appearance and general composition Cross and Howe (Cross, Howe, and Ransome, 1905, p. 3) inferred an original assemblage of sedimentary, volcanic, and sheetlike intrusive rocks.

In the extreme southwest corner of the area, dikes and irregular masses of biotite granite have cut and assimilated the schist, and a few diabase dikes were injected along planes of foliation. Both the granite and the diabase were considered to be Precambrian by Cross and Howe (Cross, Howe, and Ransome, 1905, p. 6); the diabase is the younger judging from the mapped relations of the two rocks near the southern edge of the Silverton quadrangle. Because these intrusive rocks are relatively small and generally poorly exposed, they are not shown separately from the schist on plate 1.

The great section of Precambrian quartzite and slate of the Needle Mountains group, which is younger than the ancient schist and gneiss and probably younger than the biotite granite, does not crop out between Whitehead Gulch, 2 miles south of the southern border of the area shown on plate 1, and Ironton Park, 8 miles north of Silverton. Near Silverton, therefore,

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the schist and gneiss are directly overlain by undisturbed Cambrian or other Paleozoic strata, or by the Tertiary volcanic rocks.

PALEOZOIC SEDIMENTARY ROCKS

IGNACIO QUARTZITE

Paleozoic sedimentary rocks crop out in the southwestern part of the area, between Precambrian schist and gneiss and the Tertiary rocks, and in a few places near the eastern edge of the area. The oldest Paleozoic rock unit within the region is the Ignacio quartzite. The Ignacio has been long referred to the Upper Cambrian on the basis of scanty fossil evidence, *Obolus* sp.(?) from Overlook Point in the Needle Mountains (Cross, Howe, and Ransome, 1905). This interpretation was questioned by Barnes (1954), who suggested that the Ignacio is Devonian in age.

The evidence bearing on the age of the Ignacio has been re-examined by Rhodes and Fisher (1957). They believe the Ignacio to be of Late Cambrian or Early Ordovician age on the basis of a new collection of *Obolus* brachiopods and study of the relationships between the Ignacio and the underlying and overlying rocks.

A few feet of basal conglomerate, composed mostly of rounded quartzite cobbles, is common within depressions on the surface of the Precambrian rocks. The overlying strata are composed of well-bedded dense white and pink quartzite with thin partings of yellow and red shale. One bed of dense blue-gray limestone a few inches thick was seen in the Ignacio quartzite on the east side of the Animas Canyon below the trail into Kendall Gulch. The quartzite has a maximum thickness of about 100 feet, but is more commonly 50 feet or less in thickness.

ELBERT FORMATION

The Elbert formation of Late Devonian age is exposed only at the south edge of the landslide area south of the Highland Mary mine, and along the lower part of Kendall Gulch on the north side. At Kendall Gulch it consists of a few feet of yellow, green, red, and purple calcareous shale and thinly bedded limestone. At the small exposure near the landslide, the Elbert formation rests directly upon Precambrian schist; at Kendall Gulch it rests upon Ignacio quartzite. The erosional unconformity at the base of the Elbert, representing partial to complete removal of the Ignacio quartzite before deposition of the Elbert, has also been observed to the north of this area, near Ouray (Burbank, 1930, p. 157–158) and to the south, near the Needle Mountains (Cross and Larsen, 1935, p. 32).

The weak rocks that make up the Elbert formation do not tend to form good outcrops. Possibly some outcrops were not recognized, but no certain trace of the Elbert was found outside the two areas mentioned, and the formation is believed to be absent from most of the map area. In this respect, the geologic map for this report differs from that of the Silverton folio (Cross, Howe, and Ransome, 1905), which shows the Elbert formation beneath the Ouray limestone wherever the latter is exposed in the southern part of the Silverton quadrangle. The Elbert presumably was almost completely removed from this area by erosion prior to the deposition of the overlying Ouray limestone, also of Late Devonian age. For more detailed information regarding the age, lithologic character, and distribution of the Elbert formation the reader is referred to the original description by Cross (1904), and dating by Eastman (1904), to the Engineer Mountain folio (Cross and Hole, 1910), and to a general discussion of the Devonian in Colorado by Kirk (1931).

At Kendall Gulch the Elbert shale is slightly mineralized with base-metal sulfides and has been explored by a few prospect holes, but no deposits of commercial importance have been found.

LEADVILLE LIMESTONE AND OURAY LIMESTONE

The Elbert formation, where present, is overlain without angular discordance by the Ouray limestone of Late Devonian age; the Ouray limestone is overlain conformably by the Leadville limestone of Mississippian age. Where unaltered by igneous activity or vein solutions, both limestones are fine to medium grained, rudely bedded to massive and gray, except for a few pinkish beds near the base of the Ouray. In some places they may be separable in age by detailed study of the fossils that they contain, but since no lithologic distinction can be drawn in the field between the two similar-appearing limestones, they were mapped as a single unit. In the northwestern part of the area, the limestone is about 225 feet thick, but it thins southward beneath the prevolcanic erosion surface and is absent south of Deer Park Creek.

The Leadville and Ouray limestones contain two metalliferous deposits of the replacement type. One is at the Marcella mine at the far west edge of the map area and the other is at the March crosscut of the Osceola mine just beyond the eastern border of the map area. These are briefly described in the section on replacement deposits (p. A48).

PENNSYLVANIAN SYSTEM

The red shale and sandstone characteristic of the Molas formation have not been recognized within the area studied, although they are conspicuous along the

road to Durango a few miles to the west. The remainder of the Pennsylvanian section, although about 2,000 feet thick a few miles west from the Animas River, is represented east of the Animas River by no more than 25 feet of green sandstone overlying Ouray and Leadville limestones along the trail between Kendall Gulch and Deer Park Creek. This sandstone is tentatively assigned to the Hermosa formation, which is well exposed west of the Animas Canyon.

TERTIARY BEDDED ROCKS

TELLURIDE CONGLOMERATE

The sequence of Tertiary bedded rocks in the western part of the San Juan Mountains begins at most places with the Telluride conglomerate of Oligocene(?) age. The conglomerate rests on an extensive, nearly smooth erosion surface developed in Eocene(?) time upon all older rocks. The geologic maps of the Silverton folio (Cross, Howe, and Ransome, 1905) show the conglomerate on the Sultan and Grand Turk Mountains about 1 mile west of the western border of the South Silverton area (see also fig. 4). The folio maps show that the Telluride is missing from its usual position at the base of the volcanic rocks along the north side of Deer Park Creek and near the mouth of Kendall Gulch but the folio maps show it 2 or 3 miles to the east at the headwaters of Mountaineer Creek. The geologic map (pl. 1) in this report differs from those of the folio by showing no Telluride conglomerate in the Mountaineer Creek area, and indeed, none at all within the area covered by the folio. This difference results from some volcanic detritus found among the conglomerate beds near the head of Mountaineer Creek. In conformance with Burbank's usage (1933a, p. 139) that the Telluride conglomerate "is of non-volcanic character and composed entirely of pre-Tertiary or early Tertiary rocks," the conglomerate beds were grouped with the overlying volcanic conglomerate in the lower part of the San Juan tuff.

SAN JUAN TUFF

The first accumulation of volcanic rocks during the middle part of the Tertiary period is represented by the San Juan tuff, comprising water- and air-laid breccia, agglomerate, and tuff. This formation extends over most of the northwestern part of the San Juan Mountains and has a maximum thickness of nearly 3,000 feet at Ouray. The San Juan tuff is exposed within the South Silverton area in the headwaters of Deer Park Creek and in the valley of Mountaineer Creek, where it ranges from 10 feet to several hundred feet in thickness.

The lower 10 to 100 feet of the formation is generally a conglomerate composed of cobbles and boulders of volcanic rocks, together with granitic and other pre-Tertiary rocks. The basal few feet of the conglomerate is locally a breccia consisting almost entirely of angular fragments of schist, gneiss, and granite. Most cobbles in the upper part of the conglomerate are of andesite and latite, and are rounded, indicating deposition from running water.

The upper part of the San Juan tuff consists of rudely bedded tuffs and agglomerate containing fine-grained to porphyritic andesite and latite fragments ranging in size from a fraction of an inch to several feet cemented in a matrix of fine tuff. The fragments are not bombs or lapilli and show no sign of having been ejected in a semiplastic condition. Some of the material may be air laid and some the product of subaerial erosion and transportation from distant volcanic accumulations. Burbank (1930, p. 189) states: "Some of the angular and more homogeneous breccias give the impression that they may have been extensive mud-flows, in which there was less opportunity for the abrasion and rounding of individual fragments."

Cross, Howe, and Ransome (1905, p. 7) state:

> The colors of the formation when freshest are neutral blues, grays, and brownish-purples, with sometimes vivid greens and robin's-egg blues * * * in many places where there has been impregnation by iron sulphides subsequent oxidation has stained the tuffs red or yellow, and the decomposing action of mineral-bearing waters has often so changed the whole character of the rocks as to practically destroy all individuality.

Blue green and brownish purple are the dominant rock colors in the South Silverton area.

There are no direct means of dating the San Juan tuff. It is older than the Silverton volcanic series of Miocene age, younger than the Telluride conglomerate of possible Oligocene age, and is currently considered to be of Miocene(?) age.

The present mapping has omitted the small area of Telluride conglomerate shown on the Silverton folio map near Mountaineer Creek. Plate 1 shows instead San Juan tuff, which is here conglomeratic and rests directly upon Precambrian rocks. This relation, together with the considerable range in altitude of the base of the San Juan tuff, is evidence of erosion that followed deposition of the Telluride conglomerate and preceded or perhaps accompanied deposition of the tuff. Cross and Howe first suggested this interval of erosion (Cross, Howe, and Ransome, 1905, p. 21), but its existence, at least as based on evidence in Arrastra Basin, was later questioned by Burbank (1933a, p. 140). I agree with Burbank in assigning the breccia of Arrastra Basin, which was mapped as San Juan tuff by Cross and Howe, to erosional detritus within

the Eureka rhyolite and likewise include the breccias on the west slope of Kendall Mountain within the Eureka. At Kendall Mountain, however, the relations are very complex. The rhyolitic breccia is so altered by its proximity to both the quartz-monzonite stock and the rhyolite, which may be intrusive, that the question of whether it belongs to San Juan tuff or the Eureka rhyolite is still unanswered.

SILVERTON VOLCANIC SERIES

The San Juan tuff was extensively eroded prior to eruptions of the overlying Silverton volcanic series. Evidence of this erosion, which produced a land surface nearly as rugged as that of the area today, is clearly shown by the great range in altitude of the base of the Silverton series, local nearly vertical contacts with the underlying San Juan tuff, and the total lack, in many places, of any San Juan tuff between flows of the Silverton series and pre-Tertiary rocks.

The Silverton volcanic series is made up of five formations. These are from base to top: the Picayune quartz latite, Eureka rhyolite, Burns quartz latite, pyroxene-quartz latite, and Henson tuff.

These names for the formations within the Silverton series are those adopted by Larsen and Cross (1956); the first, third, and fourth are modified somewhat from the earlier usage. Although the lithologic classification still may not be entirely satisfactory, the number of good analyses available from the Silverton area is at present not sufficient to warrant precise terminology. The series attains its maximum thickness of more than 3,000 feet within the Silverton quadrangle and extends, with diminished thickness, to the west, north, and east over an area of about 1,000 square miles. In both area and volume the Silverton series is smaller than the older San Juan tuff and the younger Potosi volcanic series. Near Silverton, however, nearly all the exposed volcanic rocks belong to the Silverton series.

Only the second, third, and fourth formations of the Silverton series have been recognized in the South Silverton area. The maximum aggregate thickness of the Eureka rhyolite, Burns quartz latite, and pyroxene-quartz latite is at least 3,000 feet and may be as much as 4,000 feet. The thicknesses of the Eureka rhyolite and Burns quartz latite are variable because of the irregularity of the surfaces upon which they were extruded. In general, the thickness of the volcanic flows decreases to the south as the underlying eroded surface of San Juan tuff and pre-Tertiary rocks rises toward a highland area.

Chemical analyses of rocks from the Silverton volcanic series collected within the area and from nearby are given in tables 1, 2, and 3.

TABLE 1.—*Analyses, norms, and modes of Eureka rhyolite and similar average igneous rocks*

[Analyses for columns 1–3 were made in the rapid-rock-analyses laboratory, U.S. Geological Survey, under the supervision of W.W. Brannock. Norms for samples in columns 1–3 were computed from a modification of the chemical analyses in which the percentages of oxides were recomputed on a basis of 0.6 percent H_2O and 0.0 percent CO_2 to remove some of the effect of alteration so that a comparison could be made more easily between these norms and the average norms of fresh rocks reported by Nockolds]

	1	2	3	4	5	6
Analyses						
SiO_2	64.9	52.7	52.6	65.88	66.27	73.66
Al_2O_3	17.6	17.2	15.9	15.07	15.39	13.45
Fe_2O_3	1.8	3.9	5.2	1.74	2.14	1.25
FeO	1.6	5.9	4.9	2.73	2.23	.75
MgO	1.3	6.0	4.5	1.38	1.57	.32
CaO	3.1	2.0	8.4	3.36	3.68	1.13
Na_2O	3.8	5.0	2.5	3.53	4.13	2.99
K_2O	4.1	1.8	1.9	4.64	3.01	5.35
H_2O-	1.3	3.8	2.2	.52	.68	.78
H_2O+						
TiO_2	.49	1.0	1.0	.81	.66	.22
P_2O_5	.18	.40	.38	.26	.17	.07
MnO	.10	.18	.15	.08	.07	.03
ZrO_2						
CO_2	.07	.08	.72			
S						
BaO						
SrO						
Li_2O						
FeS_2						
Total	100	100	100			
Norms						
Q	19.0	1.9	8.5	18.8	20.8	33.2
or	24.5	11.1	11.1	27.2	17.8	31.7
ab	32.0	44.0	22.0	29.9	35.1	25.1
an	14.5	7.8	27.0	11.7	14.5	5.0
C	1.7	4.4				.9
di						
hy						
$CaSiO_3$			5.5	1.4	1.3	
$MgSiO_3$	3.2	15.5	11.5	3.4	3.9	.8
$FeSiO_3$	1.0	6.3	3.4	2.4	1.3	
mt	2.6	6.0	7.7	2.6	3.0	1.9
il	.9	2.6	2.0	1.5	1.4	.5
hm						
ap	.3	1.0	1.0	.6	.3	.2
Modes						
Quartz	<5		Trace			
Orthoclase	15					
Plagioclase	10(an_{16-42})		29(an_{43-45})			
Hornblende	Relict					
Pyroxene	Trace		9			
Biotite						
Magnetite	Trace		1			
Chlorite						
Apatite	Trace					
Groundmass	70		61			

1. Eureka rhyolite. Quartz latite welded tuff (46DV1), from Swansea Gulch near the Scranton City mine, 37°48′08″ N., 107° 38′24″ W. Lab. No. 151412.
2. Eureka rhyolite. Flow-breccia facies (46DV32) from southwest slope of Kendall No. 2 Peak, about 37°47′00″ N., 107°39′10″ W. Lab. No. 151419.
3. Eureka rhyolite(?). Andesitic facies (46DV19a), from a point near head of Spencer Basin, 37°46′21″ N., 107°36′05″ W. Only rock in the area that contains fresh pyroxene. May be equivalent to the Picayune quartz latite. Lab. No. 151418.
4. Hornblende-biotite adamellite, average of 41 analyses (Nockolds, 1954).
5. Rhyodacite and rhyodacite-obsidian, average of 115 analyses (Nockolds, 1954).
6. Calc-alkali rhyolite and rhyolite-obsidian, average of 22 analyses (Nockolds, 1954).

EUREKA RHYOLITE

The Eureka rhyolite and overlying Burns quartz latite have been described in considerable detail by Burbank (1933a, p. 141–145), who tentatively divided the Eureka in the Arrastra Basin area into three members: A lower rhyolite flow, a medial tuff breccia, and an upper flow breccia. These divisions are not recognizable throughout the surrounding area, and for this reason I did not map the three members of the Eureka rhyolite separately.

The lower parts of the Eureka rhyolite are irregular and, in part, interbedded with breccia and tuff derived from the previous land surface. The early flows accumulated in valleys that had been eroded in San Juan tuff and older rocks. The valleys were finally filled and the upper flows of rhyolite and rhyolitic flow breccia spread out nearly horizontally on a surface of low relief.

At the head of Spencer Basin one of the flows not far above the San Juan tuff is a relatively fresh dark-gray pyroxene andesite. Stubby plagioclase phenocrysts, 1 to 3 mm in length, make up one-quarter to one-third of the rock. The plagioclase is zoned and ranges in composition from An_{45} to An_{65}, which is considerably more calcic than the albite or oligoclase generally found in rocks of the Eureka rhyolite. Pyroxene is present to the extent of a few percent and is relatively unaltered. This rock may possibly belong more properly with the Picayune quartz latite of Larsen and Cross (1956). Analyses of this rock and of more typical specimens of Eureka rhyolite are given in table 1.

Nockolds' averages are given for comparison with column 1, which represent the common facies of Eureka rhyolite more closely than those of columns 2 and 3. The normative amounts of Q, or, ab, and an in column 1 fall within the range of norms between average hornblende-biotite adamellite and average rhyodacite-obsidian, but are quite different from the norm of average calc-alkali rhyolite and rhyolite-obsidian. The analyses support the general impression gained in the field that the Eureka rhyolite, while greatly variable in composition, is in general less silicic and more aluminous than the name would suggest.

The Eureka rhyolite is well exposed on the west side of Cunningham Gulch, as shown in figures 5 and 6. In the slopes below Dives Basin, the three members (not mapped separately) can be distinguished as: (1)

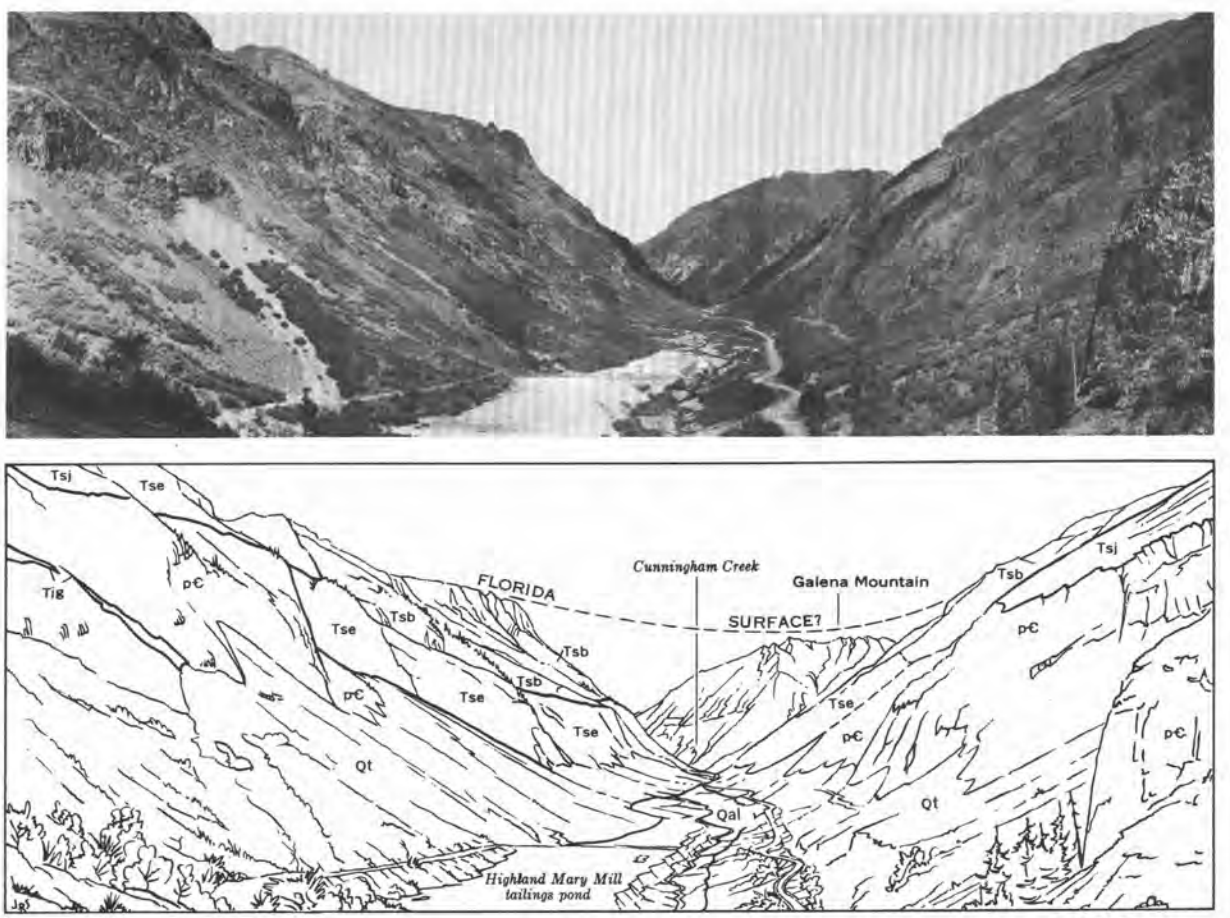

FIGURE 5.—Sketch and view northward down Cunningham Gulch. Note that the upper surface of the Precambrian gneiss declines toward the north; granite porphyry dikes are on the left. Qal, alluvium; Qt, talus; Tig, granite porphyry; Tsb, Burns quartz latite, undivided; Tse, Eureka rhyolite; Tsj, San Juan tuff; p€, Precambrian schist and gneiss.

FIGURE 6.—West side of Cunningham Gulch viewed northwestward from the Green Mountain mine. The main cliff is composed of Eureka rhyolite. The base of the Burns quartz latite is near the top of the cliff at the left. The irregular white mass to the right of the dark outcrop at the base of the cliff is Paleozoic limestone that apparently was caught and incorporated into the flow breccia.

about 650 feet of light-gray flow-banded fine-grained rhyolite flows or welded tuff overlain by (2) about 70 feet of purple to pink tuff breccia overlain by (3) about 60 feet of flow breccia. On the west slope of Kendall Peak No. 2, 1½ miles south of Silverton, the total thickness of the Eureka is about 2,000 feet. The interval in the lower 600 to 900 feet consists of dense blue-gray porphyritic rhyolite and latite. Some of this interval may be intrusive, as suggested by the steep flow lines and irregular contacts of the rhyolite with lenses of dark greatly altered breccia similar to the San Juan tuff. The remainder of the formation includes light-gray rhyolitic and quartz latitic flows and flow breccia. The top of the Eureka rhyolite in the western part of the South Silverton area is marked in many places by a platy tuff ranging in thickness from a few feet to 100 feet. Generally this tuff has the texture of very coarse sandstone and is given a mottled appearance by numerous green platy fragments in a matrix of white feldspar grains. Locally, the tuff is very fine grained, dense, and lavender or light green.

Much of the material in the Eureka formation that has been called rhyolite flow may be welded and recrystallized tuff. A specimen taken just above the Scranton City mine, 1.4 miles southeast of Silverton, is typical of the massive light-gray lower part of the Eureka. To the eye it appears wholly crystalline with many gray or greenish stubby feldspar phenocrysts, 3 to 4 mm long, in a fine-grained light-gray matrix. Angular fragments of a generally darker color are common, and the rock as a whole shows an alinement of the long dimensions of crystals and rock fragments. In thin section, the fragmental character of the rock is well shown. Orthoclase and plagioclase (albite to andesine) phenocrysts make up about 30 percent of the rock. The remainder is a finely crystalline to glassy groundmass that does not show flow structure. The feldspar phenocrysts appear to be fragments of larger crystals and many show corroded and embayed borders. Fragments of exotic material are common.

BURNS QUARTZ LATITE

The Burns quartz latite overlies the Eureka rhyolite with erosional unconformity, and consists of breccias, flows and tuffs of dominantly latitic and andesitic composition having a maximum thickness of about 1,800 feet. The subdivisions recognized by Burbank (1933a, p. 145-150)—a lower tuff-breccia member, a latite flow member, and an upper tuff member—were used during the present mapping, except where the Burns quartz latite is greatly altered near the ring-fault zone.

The lower tuff-breccia member is made up of fragments of light-green porphyritic latite in a fine-grained tuffaceous matrix of similar composition. The fragments are generally half an inch to a few inches in diameter and subangular, but some are rounded cobbles and others are angular blocks several feet in diameter in a matrix of smaller angular fragments and sand. Sparsely scattered white to light-pink orthoclase phenocrysts as much as half an inch in length in the fragments help to distinguish these lower breccias from those within the Eureka rhyolite. Burbank found a breccia in Arrastra Basin that is similar to the breccias of the lower member and which is intertongued with the medial flow member. He differentiated this unit, calling it the breccia of Round Mountain, which is included within the lower tuff-breccia member of this report.

The main body of tuff breccia is overlain by interbedded massive flows of very dusky red-purple, dark-gray, and very dusky green latite and andesite, by light-gray and greenish-gray fluidal facies of the same apparent composition but with platy structure, and by breccia beds identical with those lower in the section. This series of massive and platy flows, which forms the middle member of the Burns, reaches a maximum thickness of about 1,000 feet in Arrastra and Little Giant Basins.

Under the microscope, even the freshest appearing rock from massive flows is generally seen to be so altered that identification of many of the constituent minerals is uncertain. All flows examined in thin section were porphyritic with plagioclase phenocrysts 1 to 5 mm long in a finely crystalline matrix. The groundmass commonly shows fluidal texture. The plagioclase is generally albite-oligoclase, but in one flow at the top of Spencer Peak, which may belong to the pyroxene-quartz latite, but is here tentatively included in the Burns, the feldspar is labradorite. Many of the feldspar phenocrysts and much of the groundmass in most flows of the Burns quartz latite are much altered to calcite and sericite; the biotite, hornblende, and pyroxene are invariably altered to aggregates of chlorite, calcite, and iron oxides. No alkali feldspar was identified as phenocrysts in the flows, although some potassium feldspar may be held in the plagioclase or in the finely crystalline groundmass. Quartz is rare in the flows examined, probably amounting to less than 5 percent, and generally occurs with clay minerals in small cavities. Analyses of Burns quartz latite samples are given in table 2.

These analyses, although few and showing considerable variation among themselves, suggest that the Burns quartz latite has, in general, a composition intermediate between Nockolds' average latite and average rhyodacite.

654862 O—63——2

TABLE 2.—*Analyses, norms, and modes of Burns quartz latite, dike rocks, and similar average igneous rocks*

[Analyses for columns 1–4 and 8 were made in the rapid-rock-analyses laboratory of the U.S. Geological Survey under the supervision of W. W. Brannock. Norms for samples in columns 1–6 and 8 were computed from a modification of the chemical analyses in which the percentages of oxides were recomputed on a basis of 0.6 percent H_2O and 0.0 percent CO_2 to remove some of the effect of alteration so that a comparison could be made more easily between these norms and the average norms of fresh rocks reported by Nockolds]

	1	2	3	4	5	6	7	8	9	10
Analyses										
SiO_2	64.1	58.9	57.1	55.0	58.36	56.36	62.09	58.2	54.02	66.27
Al_2O_3	17.1	16.7	16.3	15.9	16.13	15.46	16.77	16.5	17.22	15.39
Fe_2O_3	2.6	4.3	4.3	4.5	3.85	5.00	3.96	3.7	3.83	2.14
FeO	2.3	2.1	3.0	2.5	3.25	1.85	.99	3.2	3.98	2.23
MgO	1.7	2.6	2.7	3.8	2.91	2.00	1.63	3.0	3.87	1.57
CaO	1.0	2.0	5.5	4.5	3.57	5.28	4.26	3.7	6.76	3.68
Na_2O	4.6	3.4	2.2	3.7	4.51	4.91	3.77	3.2	3.32	4.13
K_2O	4.2	4.8	4.3	3.3	2.41	2.73	3.68	4.6	4.43	3.01
H_2O-	1.8	2.7	2.1	3.0	1.61	1.34	.50	2.0	.78	.68
H_2O+							1.32			
TiO_2	.62	.80	.84	.87	1.49	.83	.73	.86	1.18	.66
P_2O_5	.25	.31	.32	.33			.25	.36	.49	.17
MnO	.13	.12	.10	.12	.66	1.49	.14	.19	.12	.07
ZrO_2							Trace			
CO_2	<.05	1.2	2.2	2.8	1.54	1.92		.64		
S							None			
BaO							.10			
SrO							.05			
Li_2O							Trace			
FeS_2										
Total	100	100	101	100	100.29	99.17	100.24	100		
Norms										
Q	16.4	13.7	13.6	7.4	10.8	6.3	15.54	9.8	0.5	20.8
or	25.6	29.5	26.7	20.6	14.5	16.7	21.68	27.8	26.1	17.8
ab	39.8	29.3	19.4	33.0	39.3	42.4	31.96	27.8	27.8	35.1
an	3.1	8.6	22.5	17.8	17.0	12.2	17.79	16.1	19.2	14.5
C	3.1	3.1					.4			
di							1.08			
hy							3.80			
$CaSiO_3$			1.5	1.5	.5	6.2			4.5	1.3
$MgSiO_3$	4.3	6.8	7.0	10.0	7.5	5.1		7.8	9.7	3.9
$FeSiO_3$	1.3		.7		1.5	.9		1.9	2.4	1.3
mt	3.7	5.1	6.5	6.0	5.8	7.4	1.16	5.6	5.6	3.0
il	1.2	1.5	1.7	1.8	2.9	1.7	1.37	1.7	2.3	1.4
hm		1.0		.5			3.20			
ap	.7	.7	.8	.7			.67	1.0	1.2	.3
Modes										
Quartz										
Orthoclase				0						
Plagioclase		(an_{16-26})		22(an_{10-30})			15(an_{32})			
Hornblende				13			5			
Pyroxene							1			
Biotite							Trace			
Magnetite				2						
Chlorite										
Apatite										
Groundmass				63			79			

1. Lower tuff-breccia member of Burns quartz latite (46DV57) from gulch above Mighty Monarch mine, about 37°48′26″ N., 107°39′20″ W. Lab No. 151420.
2. Middle member of Burns quartz latite (46DV9) from Little Giant Basin, about 37°48′10″ N., 107°35′50″ W. Lab. No. 151415.
3. Pyroxene quartz latite or Burns quartz latite (46DV11) from massive flow on north side of Shenandoah-Dives vein system at about 100 feet below point where vein system crosses ridge southeast of Little Giant Peak, 37°47′48″ N., 107°35′51″ W. Lab. No. 151416.
4. Middle flow member of Burns quartz latite (46DV12) from flow beneath upper member, 37°47′27″ N., 104°35′55″ W. Lab No. 151417.
5. Burns quartz latite. "Hornblende-andesite, tunnel of Dives claim, upper level, King Solomon Mountain" (Van Horn, 1901, analysis 2), analyzed by E. W. Gebhardt. and W. G. Haldane.
6. Burns quartz latite. "Hornblende-andesite, country rocks of Dives claim, upper level of King Solomon Mountain" (Van Horn, 1901, analysis 6), analyzed by E. W. Gebhardt and W. G. Haldane.
7. Burns quartz latite (P.R.C. 1253) from ridge north of the head of Pole Creek Larson and Cross, 1956, p. 78), analyzed by W. F. Hillebrand, 1905. An erroneous value of 3.18 percent K_2O given by Larsen and Cross has been corrected to agree with the original value reported by Cross, Howe, and Ransome (1905, p. 12). The norm given by Larsen and Cross was based on the corrected value.
8. Intrusive andesite or latite (46DV4) from wide dike in upper part of Swansea Gulch, 37°47′51″ N., 107°38′08″ W. Lab. No. 151513.
9. Latite, average of 42 analyses (Nockolds, 1954).
10. Rhyodacite and rhyodacite-obsidian, average of 115 analyses (Nockolds, 1954)

PYROXENE-QUARTZ LATITE

At the top of Little Giant Peak and along the crest of King Solomon Mountain the upper tuff member of the Burns is overlain by about 200 feet of dense dark-gray and very dusky red-purple flows. These flows are the youngest extrusive rocks preserved in the area. They were originally included within the Burns latite in the Silverton folio (Cross, Howe, and Ransome, 1905); they later were assigned to the pyroxene andesite by Burbank (1933a, p. 151) and are included in the pyroxene-quartz latite of Larsen and Cross (1956). The flows, both in hand specimen and under the microscope, are similar to some parts of the middle flow members of the Burns; but their position, above the tuff that marks the top of the Burns here and in other parts of the quadrangle, makes their correlation with the pyroxene-quartz latite reasonable.

The pyroxene-quartz latite is best exposed in the central part of the Silverton quadrangle, north of the area show on plate 1. The base of the pyroxene ande-

site, as shown in the Silverton folio on the north side of the Animas Valley above the Shenandoah-Dives (Mayflower) mill, was compared with the pyroxene-quartz latite exposed on King Solomon Mountain. North of the Animas River the sequence of light-colored tuff and platy flows overlain by massive dark cliff-forming flows is sufficiently similar to tentatively confirm correlation with the succession of volcanic rocks on Little Giant Peak and King Solomon Mountain.

As is generally true for all the andesitic rocks of the Silverton volcanic series, microscopic examination of the pyroxene-quartz latite produced little data to supplement field identification. The pyroxene-quartz latite flows on Little Giant Peak and King Solomon Mountain are completely or nearly completely crystalline. Some flows are porphyritic, but in most flows the feldspar crystals range in size from 4 mm or so to submicroscopic crystals. From flow to flow the predominant feldspar ranges in composition from albite-oligoclase to labradorite. No potassium feldspar was noted and quartz is present only in amounts of less than 5 percent. The feldspar is commonly altered to sericite and calcite, and all ferromagnesian minerals are altered to aggregates of calcite, chlorite, and iron oxides. Relict outlines of pyroxene are no more noticeable in this unit than in the Burns quartz latite.

Analyses of pyroxene-quartz andesite from King Solomon Mountain and elsewhere are given in table 3.

The norms generally fall within the range between the average norms for Nockolds' doreite and dacite. Sample 46DV8 (column 1) shows, however, a conspicuously high value for or and a low value for an and thus closer affinity with Nockolds' latite (table 2, column 9), although the value for Q is much higher.

TABLE 3.—*Analyses, norms, and modes of pyroxene-quartz latite and similar average igneous rocks*

[Analyses for column 1 were made in the rapid-rock-analyses laboratory, U.S. Geological Survey, under the supervision of W. W. Brannock. Norms for samples in columns 1–3 were computed from a modification of the chemical analyses in which the percentages of oxides were recomputed on a basis of 0.6 percent H_2O and 0.0 percent CO_2 to remove some of the effect of alteration so that a comparison could be made more easily between these norms and the average norms of fresh rocks reported by Nockolds]

	1	2	3	4	5	6	7
Analyses							
SiO_2	56.4	55.77	55.68	58.88	56.03	56.00	63.58
Al_2O_3	16.9	16.38	17.09	16.10	15.97	16.81	16.67
Fe_2O_3	4.2	4.27	5.26	3.12	4.78	3.74	2.24
FeO	2.8	4.17	1.98	2.94	3.00	4.36	3.00
MgO	3.1	3.10	2.23	2.30	3.36	3.39	2.12
CaO	3.4	6.66	5.05	6.05	6.44	6.87	5.53
Na_2O	3.8	3.65	2.83	3.17	2.85	3.56	3.98
K_2O	3.9	2.37	1.95	1.86	3.29	2.60	1.40
H_2O-	2.8	2.36	1.50	1.66	1.31		
H_2O+				2.86	1.08	.92	.56
TiO_2	.90	.34	1.45	.73	1.01	1.29	.64
P_2O_5	.35			.17	.48	.33	.17
MnO	.16		1.56	.16	.16	.13	.11
ZrO_2				.02	Trace		
CO_2	1.6	1.58	2.97				
S					.08		
BaO				.13	.08		
SrO				.14	.04		
Li_2O				Trace			
FeS_2				.07			
Total	100	100.65	99.55	99.97	99.88		
Norms							
Q	9.1	7.7	20.2	17.46	10.86	7.2	19.6
or	23.9	14.5	12.2	11.12	19.46	15.6	8.3
ab	33.0	32.0	24.6	27.25	24.10	29.9	34.1
an	14.7	22.0	26.1	23.35	21.13	22.2	23.3
C	1.3		1.1				
di				3.77	6.51		
hy				5.98	5.50		
$CaSiO_3$		5.1				4.1	1.3
$MgSiO_3$	8.0	8.9	5.8			8.5	5.3
$FeSiO_3$	.3	3.7				3.0	2.8
mt	6.5	6.5	7.7	4.41	6.96	5.3	3.3
il	1.8	.6	2.9	1.37	1.98	2.4	1.2
hm			.2				
ap	1.1			.67	1.39	.8	.3
Modes							
Quartz	<5						
Orthoclase	Scarce						
Plagioclase	(Oligoclase)			27 (an_{28})	34 (an_{32})		
Hornblende				.5			
Pyroxene				8	9.5		
Biotite				.5			
Magnetite				1	1		
Chlorite							
Apatite							
Groundmass				63	59		

1. Pyroxene-quartz latite, from massive dark flow at south end of the crest of King Solomon Mountain (46DV8), 37°48'03" N., 107°35'34" W. Lab. No. 151414.
2. Pyroxene-quartz latite(?). "Hornblende andesite, Little Giant peak of King Solomon, slightly below summit toward Cunningham Gulch" (Van Horn, 1901, analysis 7), analyzed by E. B. Willard.
3. Pyroxene-quartz latite. "Hornblende-andesite, summit of Little Giant peak of King Solomon Mountain" (Van Horn, 1901, analysis 8), analyzed by E.W. Gebhardt and W. G. Haldane.
4. Pyroxene-quartz latite. Vitrophyric pyroxene-quartz latite (P.R.C. 1355) from ridge west of Edith Mountain, Silverton quadrangle, (Larsen and Cross, 1956, p. 80), analyzed by W. F. Hillebrand, 1905. Pyroxene in mode consists of 5 percent augite and 3 percent hypersthene.
5. Pyroxene-quartz latite from Silverton quadrangle, Copper Gulch, on Dolly Varden claim (Larsen and Cross, 1956, p. 80), analyzed by W. F. Hillebrand, 1905. Pyroxene in mode consists of 4.5 percent augite and 5 percent hypersthene.
6. Doreite, average of 38 analyses (Nockolds, 1954).
7. Dacite and dacite-obsidian, average of 50 analyses (Nockolds, 1954).

TERTIARY INTRUSIVE ROCKS

During and following the extrusion of the volcanic rocks, a more or less elliptical part of the earth's crust north of Silverton subsided 1,000 to 2,000 feet relative to the surrounding area. This block is nearly completely bounded by faults and is about 8 by 10 miles in area. The town of Silverton lies in a valley eroded along the broad fault zone that marks the southern periphery of the subsided block. Not only was the border of the sinking block broken and crushed but also the surrounding rocks were fractured for a distance of several miles away from the peripheral, or ring fault, zone. Although the subsided block is described in more detail in the section on "Tertiary structures," it is mentioned briefly here, because the fissures associated with its formation and development, both those in the peripheral fault zone and the several groups of fractures extending into the surrounding area, were intruded and partly filled by the Tertiary intrusive rocks.

The intrusive rocks are of four general lithologic types: Quartz monzonite, granite porphyry, rhyolite, and andesite or latite. Of these, the quartz monzonite, in the form of stocks, small irregular bodies, and a

few dikes, has by far the greatest volume. The andesite or latite, granite porphyry, and rhyolite occur as dikes. The many andesite and latite dikes have an aggregate length of 17 or 18 miles within the mapped area; the outcrops of the granite porphyry dikes and the single rhyolite dike are about 5 miles and a quarter of a mile long, respectively. All these intrusive rocks are younger than the bedded volcanic rocks, but their relative age cannot be determined with certainty, for they are nowhere in contact with one another.

Chemical analyses, norms, and modes of some of the Tertiary intrusive rocks of the Silverton area, together with average chemical analyses of similar rocks, are presented in table 4.

QUARTZ MONZONITE

Several bodies of quartz monzonite and monzonite were intruded into the greatly broken fault zone along the southern and southeastern border of the Silverton caldera. Their general form is irregular, but they tend to be elongated parallel to the fault zone. The largest of these bodies within the mapped area is at the bend of the Animas River just south of Silverton, and it is doubtless continuous with a smaller exposure on the slopes north of Silverton. These two exposures are the east end of the large stock at Sultan and Bear Mountains west of the Animas River, which is described in the Silverton folio (Cross, Howe, and Ransome, 1905). A smaller stock or very wide dike of monzonite crosses Cunningham Gulch about 1 mile south of Howardsville and passes through more than 1,000 feet of volcanic rock on the northeast flank of King Solomon Mountain. The rocks in this area are so thoroughly altered and stained with iron oxides that it is difficult to determine the contact between fine-grained quartz monzonite or monzonite and the rather equigranular facies of the Burns quartz latite. The geologic map shows several much smaller bodies of quartz monzonite along the fault zone, and no doubt others are present beneath the glacial deposits along the sides of the valley; still others may have been not noticed owing to the extensive alteration of the rocks within the ring-fault zone. The following lithologic description given by Cross and Howe (Cross, Howe, and Ransome, 1905, p. 12) for the stock at Sultan and Bear Mountains applies as well to the quartz monzonite exposed on the east side of the Animas River.

The average rock of this great stock is pinkish in color, granular in texture, and of medium fine grain. The eye can readily distinguish in it orthoclase, the pink constituent which tinges the whole mass, white plagioclase, quartz, and dark silicates which are very subordinate in amount. The microscope shows that pale-green augite is the commoner dark constituent, and that biotite and green hornblende are variable elements. There are the usual number of accessories, including magnetite, titanite, and apatite.

While the feldspars—orthoclase and plagioclase—are often nearly equal in amount and quartz is abundant, so that the rock is to be called quartz-monzonite, there are variations from this composition in several directions. Orthoclase sometimes strongly predominates over plagioclase and the rock becomes a granite, while a corresponding dominance of plagioclase was not observed.

The ferromagnesian minerals increase in amount locally, generally with accompanying fine grain, and a much darker and nearly aphanitic rock results. Oftentimes these darker

TABLE 4.—*Analyses, norms, and modes of quartz monzonite, granite porphyry and similar average igneous rocks*

[Analyses for columns 1 and 5 were made in the rapid-rock-analyses laboratory, U.S. Geological Survey, under the supervision of W. W. Brannock. Norms for samples in column 5 were computed from a modification of the chemical analyses in which the percentages of oxides were recomputed on a basis of 0.6 percent H_2O and 0.0 percent CO_2 to remove some of the effect of alteration so that a comparison could be made more easily between these norms and the average norms of fresh rocks reported by Nockolds]

	1	2	3	4	5	6
Analyses						
SiO_2		63.91	65.88	65.50	73.1	73.66
Al_2O_3		17.07	15.07	15.65	14.2	13.45
Fe_2O_3		4.39	1.74	1.63	.8	1.25
FeO		1.51	2.73	2.79	.88	.75
MgO		.81	1.38	1.86	.63	.32
CaO		4.47	3.36	4.10	.20	1.13
Na_2O		3.48	3.53	3.84	2.2	2.99
K_2O		3.74	4.64	3.01	5.7	5.35
H_2O-		.33			2.1	.78
H_2O+			.52	.69		
TiO_2			.81	.61	.34	.22
P_2O_5		.21	.26	.23	.09	.07
MnO			.08	.09	.04	.03
ZrO_2						
CO_2					<.05	
S						
BaO						
SrO						
Li_2O						
FeS_2						
Total		99.92			100	
Norms						
Q		19.74	18.8	20.0	38.0	33.2
or		21.68	27.2	17.8	34.5	31.7
ab		29.34	29.9	32.5	18.3	25.1
an		20.29	11.7	16.4	.3	5.0
C					4.4	.9
di						
hy		2.00				
$CaSiO_3$			1.4	.9		
$MgSiO_3$			3.4	4.6	1.6	.8
$FeSiO_3$			2.4	2.9	.5	
mt		4.87	2.6	2.3	1.2	1.9
il			1.5	1.2	.6	.5
hm		1.12				
ap		.67	.6	.6	.3	.2
Modes						
Quartz	41.8				13	
Orthoclase	29.4				6	
Plagioclase	14.7 (an_{33})				10(an_9)	
Hornblende	7.5					
Pyroxene	Trace					
Biotite	2.2					
Magnetite	2.5					
Chlorite	1.8					
Apatite	.1					
Groundmass					71	

1. Quartz monzonite (52-VS-1) from east base of Sultan Mountain.
2. Quartz monzonite (granodiorite) from east base of Sultan Mountain (Larsen and Cross, 1956, p. 228, 232), analyzed by L. G. Eakins, 1905.
3. Hornblende-biotite adamellite, average of 41 analyses (Nockolds, 1954).
4. Hornblende-biotite granodiorite, average of 65 analyses (Nockolds, 1954).
5. Granite porphyry dike (52-VS-5) from northeast slope of Galena Mountain about 37°50'20" N., 107°33'44" W. Lab. No. 151521.
6. Calc-alkali rhyolite and rhyolite-obsidian, average of 22 analyses (Nockolds, 1954).

TABLE 5.—*Results of physical tests performed on sample HV–12–46 of quartz monzonite*

[Laboratory No. 73045, E. F. Kelley, Chief, Division of Tests, U.S. Bureau of Public Roads, analyst. Reported July 28, 1947. Description of methods of testing given by Woolf (1953)]

Physical tests

Wear, Los Angles (grading A)	percent	18. 9
Toughness		14
Absorption	percent	. 7
Loss in accelerated soundness test by sodium sulfate solution [1]	percent	. 9
Bulk specific gravity (dry basis)		2. 73
Compressive strength (1 in. × 1 in. cylinders)	psi	42, 000

Static immersion stripping test

[24 hours at 140°F]

Coating material	*Result*
RC–2	Unsatisfactory
SC–2	Do.
250/300 Pen. AC	Do.

[1] A.S.T.M. method C–88–46T. Loss weighted to a uniform grading of material from 1½ inches to No. 4 size.

rocks are near the borders of the mass, but they are not always present in the contact zone. There is sometimes a gradation from the darker monzonite into the common facies, and in other places dike contacts were seen.

Complementary to the facies richer in darker silicates are small dikes of aplitic granite or quartz-monzonite, almost free from augite or other ferromagnesian minerals. These dikes are variable in grain from very fine to coarse, and an irregular porphyritic texture is also often developed.

The texture of the part of the stock exposed south of Silverton is uniform and the average size of the grains is about 2 mm. It is generally light to medium gray or pinkish gray and mottled, owing to clusters of hornblende grains and iron oxide a few millimeters across. Although the description quoted gives augite as the commoner dark constituent, only a trace was found in microscopic examination of a specimen collected from the stock at the east base of Sultan Mountain. Analyses of this rock are given in table 4.

The quartz monzonite is a sound, strong, durable rock. The results of tests performed by the U.S. Bureau of Public Roads on a sample collected by Helen D. Varnes 1.2 miles south of Silverton on U.S. Route 550 are shown in table 5.

ANDESITE AND LATITE

Andesite and latite dikes occupy several well-defined groups of fractures within an east-west belt 2 or 2½ miles wide south of the ring-fault zone. Although the dikes vary somewhat in texture and in proportions of feldspar, hornblende, augite, and biotite, they all appear to be latite or andesite. The groundmass is predominantly light green to dark grayish green grading to shades of reddish purple. Most of the phenocrysts are gray plagioclase and are a few millimeters long. Hornblende occurs as single small crystals or in clusters and is generally altered to chlorite. Products of late magmatic or hydrothermal alteration—such as chlorite, calcite, sericite, iron oxides, epidote, and clay-like minerals—are widespread. The various dikes or parts of dikes differ somewhat in appearance, but this may be due more to differences in degree of alteration than to differences in original composition. Many of the dikes are so similar in appearance to the flows within the Burns quartz latite that they are often difficult to trace through the flows unless the dikes are fractured or veined. The dikes are commonly 20 to 40 feet thick.

Burbank identified two groups of dikes within Arrastra Basin (1933a, p. 152–154); one group strikes about N. 80° E. and the other, between N. 45° W. and N. 70° W. The present mapping shows that some of these dikes extend considerably beyond the area that he mapped and that a third group of fractures and latite dikes with a general trend N. 45° E. is in the area to the west of Arrastra Basin.

The group that strikes N. 80° E. includes two prominent nearly parallel dikes, the Arabian Boy and the Arrastra. These dikes are well exposed in Arrastra Basin, where they are about 1,200 feet apart. The northern dike, the Arabian Boy, can be traced for almost 4 miles, from Cunningham Gulch westward, with some discontinuities, nearly to the trail south from Silverton to Kendall Gulch. Burbank (1933a, p. 153) describes the Arabian Boy dike as feldspathic and somewhat porphyritic, closely resembling some latitic flows of the Burns. It contains hornblende and is locally amygdaloidal. The dike is 30 to 35 feet wide in Arrastra Basin but narrows both eastward and westward to 10 feet or less.

The Arrastra dike is a feldspathic andesite and has been traced for about 8,500 feet, from the ridge northwest of Kendall Peak eastward to talus in Dives Basin. It is 85 feet wide where it extends across the ridge northwest of Kendall Peak but tapers to a few feet near the head of Dives Basin. Both the Arabian Boy and the Arrastra dikes dip 75–85° N. in the vicinity of Arrastra Basin, but the Arabian Boy dike appears to become less steep near Cunningham Gulch.

The dikes, with trends of N. 45°–75° W., mapped by Burbank are the Mayflower dike, followed by part of the Shenandoah-Dives vein system, the Magnolia dike, the Silver Lake dike, and the dike followed by the Titusville vein and its eastward extension, the Buckeye vein.

A chemical analysis of one specimen of andesitic or latitic dike rock is given in table 2.

GRANITE PORPHYRY

A group of granite porphyry dikes extend across Cunningham Gulch near the Highland Mary mill, continue southwestward into the western part of Spencer Basin and thence westward along the ridge north

of Deer Park Creek, where the outcrops end. A dike also is exposed on the east side of Cunningham Gulch, east of the area covered by this report; it crops out on the northeast flank of Galena Mountain, a few miles farther to the north and northeast, near the ring-fault zone. Altogether the dike or dikes are exposed intermittently over an arcuate course of about 7 miles.

Only one dike is exposed on the east side of Cunningham Gulch and also at the southwest extremity on the ridge north of Deer Park Creek. There are several overlapping or en echelon dikes in Spencer Basin, and at two places on the ridge north of Spencer Basin the dikes swell to masses several hundred feet wide. A dike dips steeply eastward on the northeast flank of Galena Mountain; through the remainder of its course it is generally vertical or dips steeply toward the concave side of the arc.

The granite porphyry is light greenish gray and is described by Cross, Howe and Ransome (1905, p. 11) as follows:

> This rock is a typical felsophyre, having abundant phenocrysts of orthoclase and quartz, with a much smaller number of biotite and plagioclase, in a felsitic groundmass of orthoclase and quartz. This groundmass is usually very finely and evenly granular, the two minerals being sometimes interlocked in graphic intergrowth.
>
> The dike is 20 to 30 feet wide in most places and has very marked porphyritic texture in the center, with contact zones of dense, greenish felsite, carrying a few quartz phenocrysts, the zones being 3 or 4 feet wide. The green color is due to minute particles of chlorite which may be an infiltration product from the adjacent volcanic rocks.

Examination of the granite porphyry in thin section yielded the additional information that the composition of the plagioclase is about An_9, that both orthoclase and sanidine are present, and that the small prismatic spots of chlorite are apparently due to alteration of hornblende. The rock resembles none other in the area and, owing to its light color, may be easily seen where it cuts the darker schist and volcanic rocks. An analysis of this rock is given in table 4.

FIGURE 7.—View southeastward from Cement Creek across the Animas Valley toward Swansea Gulch. Swansea Gulch lies between the two prominent peaks, Kendall No. 2 on the right and Kendall No. 3 on the left. The upper cutting limit of the last alpine glacier in Swansea Gulch is marked by the top of the cliffs on the east side of the high basin. The moraine-mantled slopes on the south side of the Animas Valley are largely timbered. The sharp V-shaped ravine in the lower part of Swansea Gulch is cut in the moraine and underlying rock near the center of the photograph, and gives some measure of postglacial erosion.

RHYOLITE

A rhyolite dike, trending N. 15° W., crops out discontinuously for about 1,300 feet on the west side of Cunningham Gulch, just south of Howardsville. The dike is vertical, about 20 feet thick, and white except where stained by weathering of disseminated pyrite. It is nonporphyritic and very fine grained. Flow lines dip steeply to the north. Its relation in age to the other intrusive rocks is unknown.

QUATERNARY DEPOSITS

The surficial materials of Pleistocene and Recent age within the area have been divided into four groups for the purpose of mapping: glacial till, alluvium, talus, and landslide material.

The most extensive of the Quaternary deposits is glacial till produced largely during the last stage of glaciation. According to Atwood and Mather (1932) the glaciers of Wisconsin time covered the area to within a few hundred feet of the tops of the peaks and higher ridges. The upper cutting limit of the ice is well shown in figures 3 and 7 by the top of the abrupt cliffs along the sides of Swansea, Blair, and Arrastra Gulches. The slopes above the cliffs rise more gently to the crests of the peaks. Moreover, the deep oxidation of many of the veins on these high slopes indicates lack of glacial scour, at least during the last advance of the ice. The depositional products of this glacial erosion do not form conspicuous topographic features in the smaller basins and gulches. Much of the material was either transported out of the area by ice or reworked and removed by streams. Large blanketlike deposits of till were, however, left by the ice along the sides of Animas Valley and at the mouths of the large gulches. Figure 2 shows the low flat-topped bench of a lateral moraine just to the left of the alluvial flat on which Silverton is built. On the far side of Cement Creek a road extends through a hummocky deposit of moraine. The moraine on the south side of the Animal Valley is covered by a dense growth of timber.

Much of the glacial material has been reworked by present streams and deposited, together with the products of current erosion, as fans or stream alluvium in the larger valleys. The fans and valley bottoms are shown as alluvium on the map, but the distinction between alluvium and the lower parts of the moraine could not be sharply drawn except where both were clearly exposed. For the most part, the areas shown as talus consist of bare sloping accumulations of loose angular rock fragments and interstitial fine material beneath cliffs. Talus was mapped where it is so thick that it might hamper mining operations. Many tongue-shaped rock glaciers in the high basins were also mapped as talus. They are unusually thick, perhaps locally more than 100 feet, and generally contain considerable interstitial ice not far beneath the surface. The problems of maintaining adits through these masses, owing to the constant slow movements, are well known to miners of the San Juan region.

Since retreat of the last glaciers, several of the larger streams have in some places eroded through the moraines and glaciofluvial deposits and cut narrow gorges, ranging from 75 to 200 feet in depth. Two such gorges are the short inner canyon of the Animas near the Shenandoah-Dives mill, shown in figure 8, and the V-shaped ravine along the lower part of Swansea Gulch, shown in figure 7.

STRUCTURE

The brief outline of geologic history indicates that the structural record of the western San Juan Mountains is long and complex. Mountain building has affected this area intermittently since very early in geologic time, and the structural pattern of each period of deformation has controlled in some degree the pattern of the next. In turn, the patterns of early deformations are obscured by those of succeeding periods or are hidden by subsequent deposits, so that it generally becomes more difficult to decipher the structural features as progressively older rocks are studied.

PRECAMBRIAN STRUCTURES

However obscure the earliest geologic history of this region may be, studies near Ouray (Burbank, 1940; Cross, Howe, and Irving, 1907), and especially to the south of Silverton (Cross, Howe, Irving, and Emmons, 1905), have shown clearly that the folding, faulting, and metamorphism produced by several periods of deformation in Precambrian time in this area were of an intensity not approached by any later epoch of mountain building.

Banding and foliation are the dominant structural features of the Precambrian schist and gneiss exposed near Silverton. The large bands, a few feet to many tens of feet wide, probably result from variations in composition of the original rocks. Smaller bands and foliae were produced by recrystallization of the original rocks under high heat and pressure. This foliation and schistosity was produced by Precambrian deformation, for in many places Cambrian quartzite lies undisturbed upon the older contorted schist and gneiss.

The strike of banding and foliation within the Precambrian rocks, where they are exposed in the southern part of the area, arcs from about N. 80° W. near

FIGURE 8.—The shallow but precipitous inner canyon of the Animas River viewed westward toward Silverton from a point near the Shenandoah-Dives tram and mill. Moraine is exposed among the trees on the left. Shattered rocks typical of the ring-fault zone are visible on the right and in the middle distance.

the Animas River to west in the headwaters of Deer Park Creek and in Spencer Basin and to northeast along the west side of Cunningham Gulch. The dip is generally steep and to the north but is to the south in some places and is complicated by folding, especially in the Animas canyon. The most prominent joints dip steeply and strike at right angles to the foliation. A few are slightly mineralized, such as those on the north slope of Sugarloaf Mountain and at the headwaters of Deer Park Creek.

PALEOZOIC AND MESOZOIC STRUCTURES

Paleozoic and Mesozoic strata are lacking in the higher parts of the western San Juan Mountains, owing to broad doming of the entire region at the close of Cretaceous time and subsequent erosion to a surface of low relief. The Telluride conglomerate of Oligocene(?) age was deposited upon this surface and thus rests on progressively older rocks as the Precambrian core of the dome is approached. The present San Juan Mountains include and extend somewhat beyond the area of this uplift. Most of the remaining pre-Tertiary strata are in a belt around the outer flanks of the range, but enough of the sedimentary section is preserved and exposed in the deeper canyons within the mountains to indicate some of the early structural history of the region.

Oscillations in sea level are recorded in the rocks through much of the Paleozoic era. Periods of no deposition or of uplift and erosion in this part of Colorado are indicated by the absence of strata of Early and Middle Cambrian and of Ordovician through Middle Devonian ages. Uplift and deep weathering at the close of the Mississippian produced an irregular pitted and cavernous surface on the Leadville limestone, which was covered by the Molas shale of Pennsylvanian age. The Paleozoic uplifts apparently produced broad areas of low relief and were not accompanied by recognizable faulting and folding.

Upper Paleozoic and Mesozoic strata are not present in the area covered by plate 1 but crop out a few miles to the west in a continuous sequence without angular unconformity. All the Paleozoic and Mesozoic strata dip to the west; and on the higher ridges west of the Animas Canyon strata of Permian to Cretaceous age are overlapped by Telluride conglomerate. The overlap of the Telluride conglomerate into westward-dipping Paleozoic strata can be seen at the right edge of figure 4.

Although the general westward dip of the Paleozoic section was probably produced by the uplift in Late Cretaceous time, it is possible that earlier uplifts caused some of this dip. At Ouray, Burbank (1940, p. 197) found an angular unconformity between Triassic and Permian strata and also axes of pre-Triassic folds and faults; therefore, late Paleozoic doming affected at least that part of the western San Juan Mountains. The principal flexures and faults related to late Paleozoic movements are much closer to the Precambrian core of the mountains than is the main monocline produced in the Late Cretaceous. Late Paleozoic doming might have affected the area southwest of Silverton but evidence of unconformity between Triassic and Permian strata would have been removed by erosion of the Telluride conglomerate prior to deposition of the San Juan tuff or by erosion of strata during cutting of the Animas Canyon.

Doming at the end of the Cretaceous period may have been accompanied by some faulting. The faults along which a block of Ouray and Leadville limestones dropped into Precambrian rocks just south of the Highland Mary mine are older than San Juan tuff, and may have been active in this Late Cretaceous uplift.

TERTIARY STRUCTURES

SILVERTON CALDERA AND SUBSIDED BLOCK

Structural features that developed during Tertiary time had profound control upon the distribution and localization of later ore deposition within the San Juan "triangle" formed by the towns of Ouray, Telluride, and Silverton. The most important feature is the Silverton caldera to which most of the ore deposits of this region bear close relation.

Although some of the faults that bound the caldera had been shown in the early folios, the caldera structure and the subsided block remained unrecognized until Burbank began detailed study of the adjacent mining districts. He found that the structural elements of late Tertiary centers of mineralization were closely related to the central area of subsidence. The concept was first developed in his report on Arrastra Basin (Burbank, 1933a), and was supported by further mapping at Ouray (Burbank, 1940), in the area to the northwest of the area of subsidence (Burbank, 1941), to the north (Kelley, 1946), to the south (Varnes, 1948), and on the northeast side (Burbank, 1951).

The Silverton caldera is the ancient depression occupied by the Silverton volcanic series. All the volcanic-rock units occupying the caldera are much thicker inside its rim than outside. The area of accumulation of the Silverton series is roughly elliptical in outline and about 15 by 30 miles, including both the Lake City and Silverton volcanic centers. Within the west-central part of the caldera a block about 8 miles by 10 miles, also of elliptical outline, has been faulted down 1,000 to 2,500 feet. As shown on figure 9, this subsided block is bounded by a belt of closely spaced, steeply dipping normal faults—the ring-fault zone. Radial fractures also formed outward from the rim of the subsided block, principally in zones directed toward intrusive bodies a few miles away, as at Stony Mountain and Ophir Valley, and toward another area of subsidence to the northeast near Lake City.

The subsided block in the Silverton caldera is not reflected by the present topography, for the basin apparently was filled almost continuously with volcanic material as it formed. Since the period of volcanism, the subsided block has been subjected to several cycles of erosion by water and ice so that its outline on the west, south, and east is marked by deep curving valleys excavated into the peripheral, or ring-fault, zone. The ring-fault zone is followed on the west by Mineral Creek southward from Red Mountain Pass to Silverton and on the east and south by the Animas River from Eureka to Silverton.

In the San Juan Mountains, there is now an enormous volume of volcanic material at or close to the earth's surface which once lay at great depths. To take the place of the matter extruded, it must be assumed that the earth's surface gradually subsided. No large void could exist, and probably no extensive subcrustal region could remain long under even moderately reduced pressure without rupture of its roof. Rock material appears to have migrated under the influence of unknown forces from beneath a fairly large area lying to the northeast of Silverton. It may have forced its way upward and extruded as lava, or moved laterally and eventually upward to form the many small stocks of igneous rock a few to a dozen miles away. The overlying rocks then bowed down and finally failed under their own weight.

The ring faults that bound the subsided block are either vertical or dip steeply inward, so far as can be seen. The block may thus have acted like a slightly

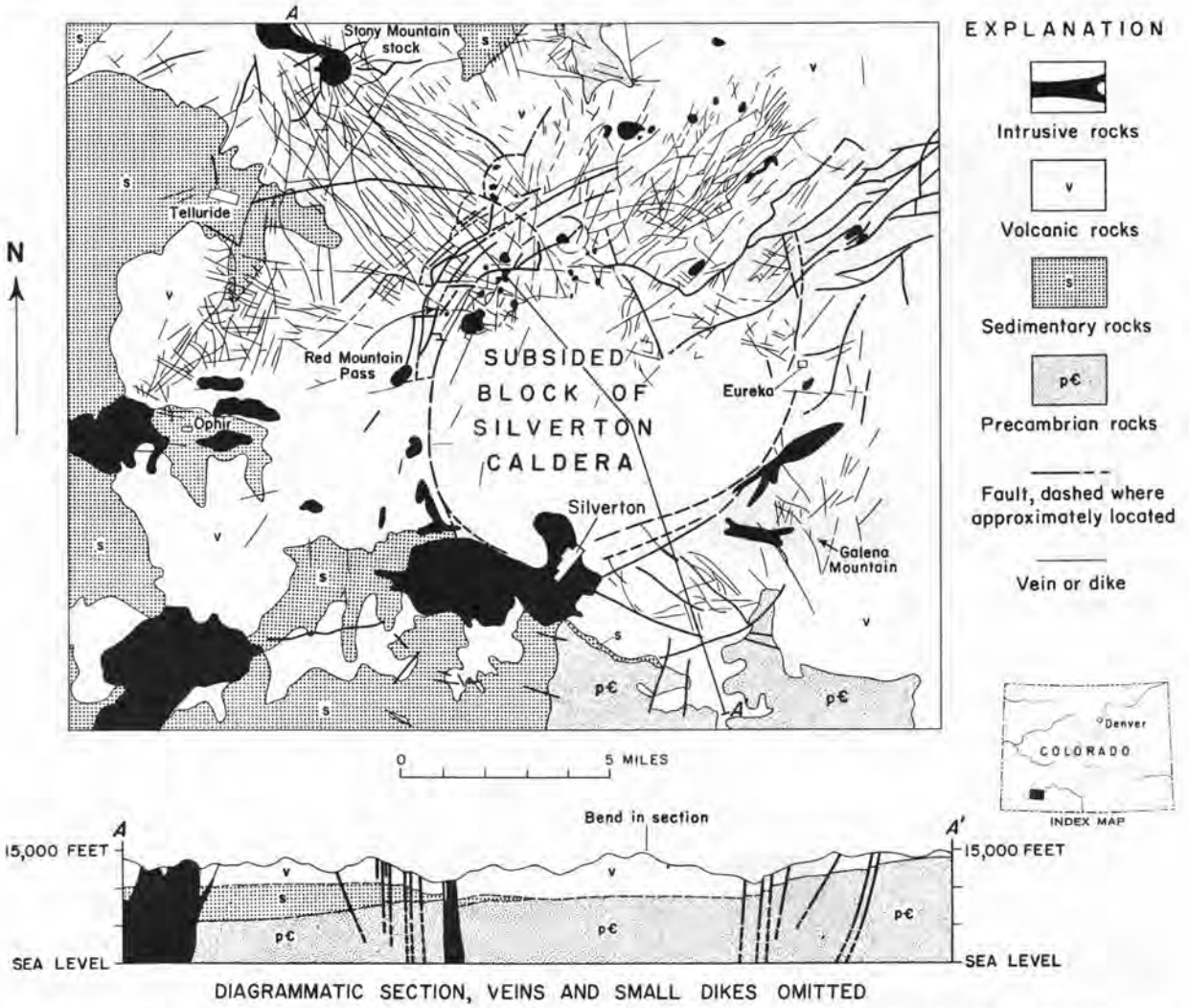

FIGURE 9.—Generalized geologic map of the part of the Silverton caldera area showing the subsided block. Adapted from Burbank, Eckel, and Varnes (1947, pl. 28).

tapered plug as it sank and subjected its periphery to strong horizontal radial compression. Actually, the downward movement of the block was relatively small, probably not more than one-twentieth of its diameter, but it was enough to cause permanent deformation of the rocks as much as several miles from the border. The downward movement and wedging was probably not an even continuous process, but took place in several or many stages. The release of pressure at the base of the block may have had some cyclic rhythm, or the block may have "hung up" for a time, owing to friction along the ring faults until shear stresses due to gravity exceeded shear resistance. Some lateral pressure may also have been exerted by small intrusions into the block itself. Lateral pressure on the periphery of the subsided block was probably periodically augmented by wedging action of a graben at the northeast corner.

Evidence in Ophir Valley, to the west, indicates that regional downwarping began between the time of deposition of the Telluride conglomerate and the first accumulation of volcanic material. The conglomerate grades into shale to the west and was therefore presumably deposited upon a westward-sloping surface. But at Ophir Valley the conglomerate dips eastward toward the caldera and is overlain by the nearly horizontal San Juan tuff and flows of the Silverton series. These volcanic rocks thicken abruptly to the

east. Subsidence continued, accompanied perhaps by minor faulting, throughout the period of volcanic eruptions. Large-scale faulting around the rim of the area of subsidence took place, and many intrusive bodies of monzonite, diorite, and related rocks were injected into the ring-fault zone and the volcanic flows in the periphery. Continued movements, related to sinking of the block and injection of the surrounding stocks, produced new fractures, some of which were filled with dikes. Many of these fractures also formed channels for later ore deposition.

The dominant structural features in the peripheral area to the south are the ring-fault zone and several systems of shear and diagonal tension fractures.

RING-FAULT ZONE

The ring-fault zone is 1 to 1½ miles wide near Silverton. The total vertical displacement across this zone can be estimated from the difference in altitude of the base of the pyroxene-quartz latite between the north and south sides of the Animas Valley. The base of the pyroxene-quartz latite on the north side is at an altitude of 11,250 feet. On the south side, at the northernmost exposure on King Solomon Mountain, it is at about 13,000 feet. The geologic map in the Silverton folio shows the base of the pyroxene-quartz latite along the north side of Animas Valley to be fairly regular and tilted slightly to the west, although the base may be shown too low by several hundred feet. Assuming that the contact between Burns quartz latite and the pyroxene-quartz latite was originally level, the total displacement across the fault zones in the Animas Valley is about 1,750 feet. This is about 600 feet less than Burbank's estimate (1933a, p. 158).

Concerning the age of the ring faults relative to ore deposition, Burbank states (1933a, p. 158–159):

> The greater movement on the faults of the Animas system must have been of premineral age, as all major faults and the fissures paralleling them show alteration of the walls similar to but more intense than that of walls adjoining the nearby veins. Quartz, sericite, pyrite, epidote, chlorite, and specularite in different proportions constitute the principal alteration products along the faults. Some movement of post-mineral age or occurring late in the epoch of mineralization is indicated by the displacement of veins by the faults and by mineralized material that has been sheared and abraded by friction within the faults.

Displacement in the ring-fault zone was distributed along many individual faults. The faults are commonly marked by the zones of strong alteration, sheeting parallel to the faults, and rubble cemented by gouge. Their courses are often shown by a small notch or long narrow swales as they cross the higher ridges. The lower slopes south of the Animas River are covered in large part by talus, moraine, soil, and timber that undoubtedly conceal many more faults than are shown on the map. Rocks within the fault zone are generally so broken and stained that Burns quartz latite has not been subdivided within the main part of the fault zone. The rocks within the fault zone are more easily eroded than the less shattered rock to the south. This condition has caused a break in slope at the south edge of the ring-fault zone along several of the prominent ridges on the south side of the Animas Valley, as shown in figure 10.

Displacement along individual faults was determined by Burbank at a few places on the south edge of the fault zone where either the lower part of the Burns or the Eureka rhyolite were clearly faulted. One fault with an estimated throw of 700 to 800 feet and another with 200 feet of throw are exposed on the east side of Arrastra Gulch. Three closely spaced faults of 75, 125, and 500 feet of throw are exposed on the west side of the gulch.

The major ring faults do not cut the larger monzonite and quartz monzonite intrusions, which are fresh and unaltered in their interiors. The outer parts of the larger intrusive bodies and the whole of the smaller ones are considerably stained and broken as a result of minor movement and alteration along the ring faults during the period of mineralization.

FRACTURING OUTSIDE OF THE RING-FAULT ZONE

GENERAL FEATURES

The production of ores in the area southeast of Silverton has come almost entirely from veins in a complexly fractured zone that lies to the south and southeast of the ring faults. The most intense fracturing and heaviest mineralization are confined to a roughly triangular area, shown in figure 11, which is bounded by the ring-fault zone on the north, by the Titusville vein on the southwest, and by an arcuate shear zone (3a) on the east and southeast. Geologic data in the eastern and western quarters of figure 11 are taken from the Silverton folio (Cross, Howe, and Ransome, 1905); data for the central part are derived from the geologic map that accompanies the present report. The courses of many faults, veins, and dikes have been modified somewhat before plotting on figure 11 to remove the effect of topography in order to better show true strike.

Three systems of fractures may be recognized within the triangular area: (1) a system that is approximately concentric with and 1½ to 2½ miles south of the southern border of the caldera; (2) a system of shear fractures and related tension fractures in the

FIGURE 10.—View southwestward from a point near Howardsville toward King Solomon Mountain. The Pride of the West mill is at the right. Cunningham Creek enters the Animas Valley from the left in the middle distance. Greatly broken rock in the southern border of the ring-fault zone crops out on the west side of Cunningham Gulch below the timber. The break in slope somewhat above timberline on the north slope of King Solomon Mountain marks the southern border of the ring-fault zone.

western half of the triangle; and (3) a system of shear fractures in the eastern part of the triangle.

The second, or western shear system, includes three groups of fractures. Each group can be identified by its trend (see fig. 11) : a northwestward-trending group of shear fractures (2a), a northeastward-trending group of shear fractures (2b), and a diagonal group of tension fractures trending somewhat west of north (2c). The eastern shear system is also tentatively divided into three groups: the eastern arcuate group of shear fractures, partly filled with granite porphyry dikes, which extends from Galena Mountain to Kendall Gulch and includes several other northward-trending fractures lying east of Cunningham Gulch (3a); northwestward-trending fractures on both sides of Cunningham Gulch (3b), and fractures that apparently are approximately radial to the ring-fault zone (3c). There are, in addition to these seven main sets, numerous smaller fractures, narrow veins, and a few dikes that do not fit into any easily recognized system or group. These apparently are of less significance, both in the regional structure and in formation of the mineral deposits.

CONCENTRIC SYSTEM

The concentric system consists of several major fractures and dike-filled fissures that trend nearly parallel to the ring-fault zone. The most prominent of these are the Arrastra and Arabian Boy andesite dikes (pl. 1), which crop out about 1½ miles south of the ring-fault zone. A narrow but persistent slightly mineralized fracture that crosses Arrastra Creek at an altitude of about 11,700 feet may also belong to this fracture system. There is some question whether the andesite dikes on the ridge south of Kendall Gulch should be included in the concentric system, for these dikes dip steeply to the south, whereas the Arabian Boy and Arrastra dikes dip to the north.

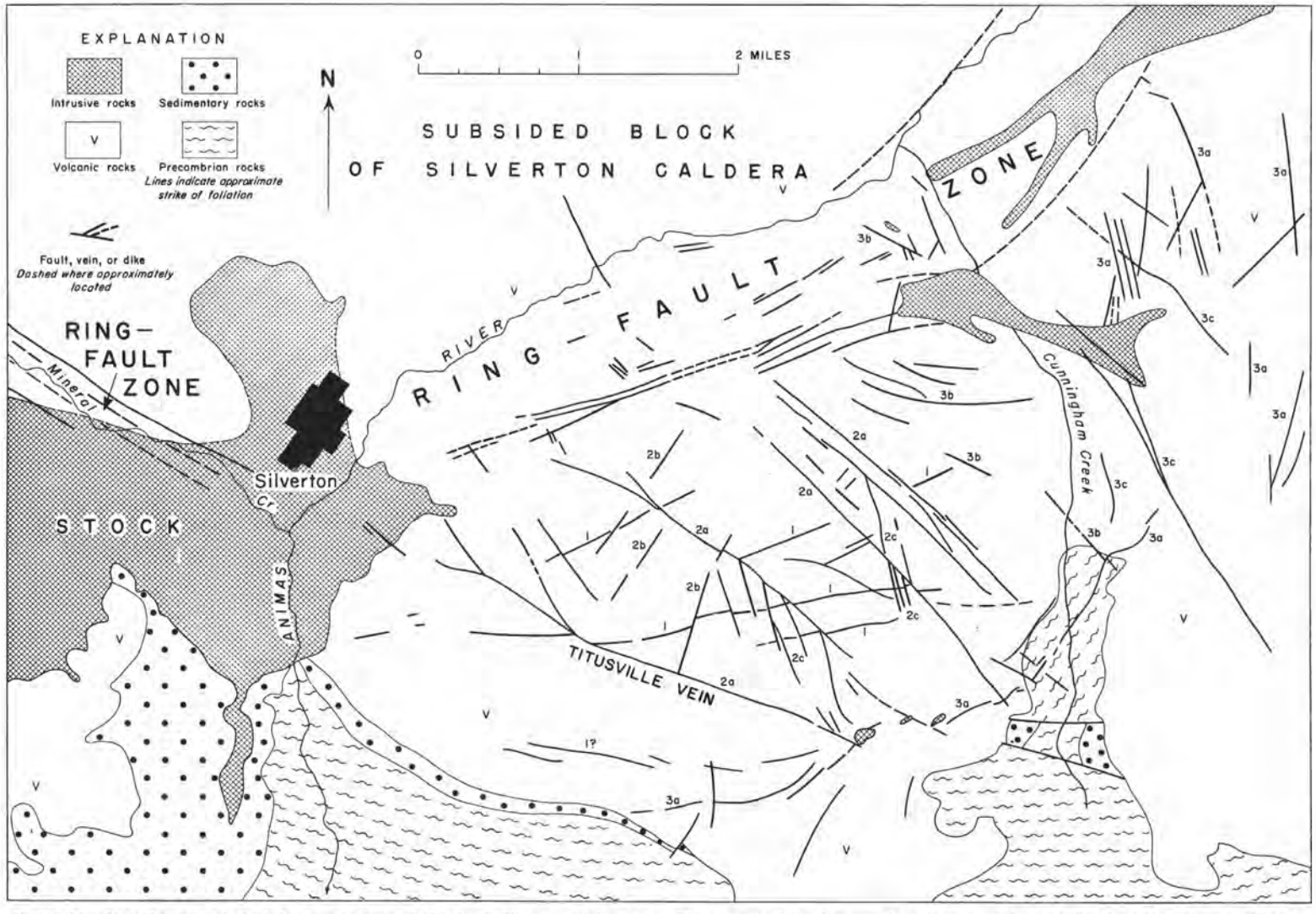

FIGURE 11.—Map showing principal fracture systems of the South Silverton mining area. The courses of the fractures have been somewhat modified from the outcrops, shown in plate 1, to remove the effect of topographic relief. (1) Concentric system; (2) western shear system consisting of (2a) northwestward-trending faults, (2b) northeastward-trending faults, and (2c) diagonal tension fractures; (3) eastern shear system consisting of (3a) eastern arcuate group, (3b) northwestward-trending fractures, and (3c) fractures that are approximately radial to the ring-fault zone.

They also curve somewhat more than the others. These variations, however, may reflect control of fracturing by the structure in the underlying Precambrian schist and gneiss, which here lie at a relatively shallow depth beneath the cover of volcanic rocks.

The age of the concentric fracture system relative to the western shear system cannot be determined by the field relations. Both systems of fractures may have been injected simultaneously with andesite dikes. Movement on the northwestward-trending group certainly continued long after the concentric fractures were filled, but there is little evidence concerning which fractures first started to form.

Dikes and fractures of the concentric system rarely show close jointing or brecciation along their walls. Horizontal or vertical movement in the plane of the fractures cannot be detected, hence the fractures are apparently due to tension exerted at right angles to their present trends. One can only guess how this stress was applied. Perhaps movements of the central area of subsidence, either up or down relative to the periphery, produced bending stresses that were relieved by the formation of concentric fractures in the bordering rocks. Long-continued subsidence of the central block may also have periodically lessened the radical stress imposed on the periphery, if filling in the block did not keep pace with subsidence. This might have allowed the rocks in the periphery periodically to expand slightly inward and fracture in concentric circles. If the subsided block was forced upward slightly by a resurgence of magmatic pressure the radial stress on the periphery would be reduced and dike material could have been injected along lines of least principal normal stress.

WESTERN SHEAR SYSTEM

NORTHWESTWARD-TRENDING GROUP

The northwestward-trending group of shear fractures includes the most prominent dike or vein-filled fractures in the district, such as the Titusville, Silver Lake-Royal Tiger, Mayflower-Shenandoah-Dives, Big Giant, and Black Prince-Gold Lake veins and the Magnolia dike. Fissures of the northwestward-trending group diverge considerably in strike and dip, as may be seen from the average attitudes of the six main fractures given in the following table in order from southwest to northeast:

	Strike	*Dip*
Titusville vein	N. 71° W.	70°–80° NE.
Silver Lake-Royal Tiger vein	N. 57° W.	65°–80° NE.
Magnolia dike	Curving.	65° NE.
Shenandoah-Dives vein system	N. 43° W.	70°–80° NE.
Big Giant vein	N. 42° W.	70°–80° SW.
Black Prince-Gold Lake vein	N. 45° W.	55°–80° SW.

The inclusion of these fissures into one group, if based only on their general northwestward strike, might well be questioned. However, the movements that have occurred along these several fissures are similar and suggest, more strongly than the approximate concurrence in trend, that the fractures are related in origin. Unlike those of the concentric system, fissures of the northwestward-trending group show evidence of considerable shear movement, both horizontal and vertical. The relative horizontal displacement is in the same sense along each fracture. If an observer faces the fault, the block on the opposite side appears to have moved to the right relative to the block on which he stands. The final vertical movement has been downdip, or "normal," along all the northwestward-trending fractures. Where the horizontal and vertical components of movement can be measured, they generally are comparable and of the order of 100 to 300 feet.

Several classifications of the northwestward-trending fractures and theories as to their origin have been proposed. The divergence in strike of the fissures in the northwest group was noted many years ago by Prosser (1914, p. 1229), who described the northwestward-trending group as "radially disposed around the junction of Mountaineer and Cunningham Creeks," near the southeast corner of the mapped area (pl. 1). Burbank regarded them, in a different sense, as tension fractures radial to the subsided block (1933a, p. 182), although he recognized that the Titusville fracture, in particular, diverges considerably from a radial trend. I previously called the northwestward-trending group a "fan system" opening toward the southern border of the subsided block (Varnes, 1948, p. 8). Because the origin of the northwestward-trending group is of key importance to an understanding of the structural history of the mining district, Burbank's earlier theory of origin and a revised hypothesis resulting from further mapping and analysis are given below.

Burbank suggested that radial fractures associated with the area of subsidence might have resulted from tension due to bulging of the earth's crust by intrusion of igneous magmas (1933a, p. 176). His later map of the area to the northwest of the caldera adds the possibility that some radial-dike systems may result from downwarping rather than bulging of the crust (1940, p. 213). Burbank included the Silver Lake, Magnolia, and Shenandoah-Dives fractures of Arrastra Basin within the radial tension system of fractures and believed that they began to form almost simultaneously with the concentric fractures that trend N. 80° E. He ascribed the horizontal displacement, observed along

northwestward-trending fractures that traverse dikes of the concentric system, to later forces. These forces were either differential lateral pressures originating in an area to the northwest, near or within the subsiding central block (1933a, p. 183–184), or compression directly from the north (1933a, fig. 2*e* and p. 199).

The principal difficulty in assigning the northwestward-trending fractures of the South Silverton area to a radial system is that they depart considerably from a radial trend. If the Titusville, Silver Lake, Shenandoah-Dives, and Black Prince-Gold Lake fractures are projected northwestward along their average strike, they do not intersect the main trend of the ring-faults along the southern border of the area of subsidence at near 90°, as radial fractures should, but at angles of about 38, 51, 65, and 63°, respectively. Moreover, the divergence previously noted, especially between the Titusville fracture and the others, is opposite to the divergence that a system of fractures radial to the caldera would have. There is also no direct evidence that the northwestward-trending group originated by fracturing due to tensile stress, although such evidence would probably be obliterated by any later strong shearing movement.

A "compressed-wedge" hypothesis is here proposed to account for fractures in the western shear system. According to this hypothesis, all northwestward-trending fractures originated not by tension but by shear stress due to pressure from the area of subsidence to the north. The Titusville fracture formed somewhat earlier than the other fractures so that a huge wedge was formed at an early stage in the deformation. The wedge was bounded on the north by the ring-fault zone and on the south by the Titusville fracture. Its apex is directly south of Silverton, near the bend in the Animas River. The wedge forms the western part of the mineralized triangular area shown in figure 11.

The northwestward- and northeastward-trending shear fractures within the wedge were produced as the wedge was compressed. As shearing continued, the previously unbroken strips of rock between the principal faults were torn obliquely by numerous tension fractures of the diagonal group.

The concept of the Titusville fracture forming somewhat earlier than the other northwestward-trending fractures is only an assumption. There is no visible field evidence, such as displaced intersections, to support this assumption, but several lines of indirect evidence indicate that the Titusville is the master fracture of the western shear system. If the Titusville is projected to the northwest, its trend would follow the straight part of the valley of Mineral Creek that extends northwestward from the junction of Mineral Creek and the Animas River. This segment of the valley, in turn, probably follows the fractures that defined the southwest border of the subsided block, although near Silverton the ring faults themselves were obliterated by the Bear Mountain intrusive stock. The Titusville is a major shear fracture, which appears to have grown outward from the highly crushed southwest corner of the subsiding block along a continuation of the ring-fault zone on Mineral Creek.

Because the origin of the Titusville fracture seems to be somewhat more closely connected with the movements of the subsiding block than the other shear fractures, we may infer that it formed a little earlier. It is also the longest of the northwestward-trending fissures. Perhaps the most convincing evidence for early formation of the Titusville is that fracturing south of it is markedly less intense than that to the north. Few veins of economic value have been found within Kendall Gulch, in the drainage of Deer Park Creek, or in Spencer Basin. The Titusville appears to have exerted strong control over fracturing in the district, and to have done so it must have formed at an early stage. In this and in the subsequent discussion of other fractures, the reader should bear in mind that the timing refers only to the initiation of breaks in the earth's crust and not to the sequence of later injections of vein filling into the fractures.

Once the Titusville fracture had been formed, the forces directed outward from the subsiding block no longer acted upon a continuous body of rock around the southern border, unbroken except by a few concentric fractures, but rather on a side of the wedge. As soon as it was formed, the Titusville fracture undoubtedly altered the distribution of stresses around the southern border of the block from a rather simple state of radial compression to one considerably more complex.

The analyses of stresses and theoretical directions of faulting in the wedge are taken up in more detail in chapter B. The pattern is that of pairs of conjugate shears. In the western shear system the two parts of the pair are the northwestward-trending group and the northeastward-trending group.

NORTHEASTWARD-TRENDING GROUP

Northwestward-trending fractures dominate the western shear system, but a few shear fractures of the complementary northeastward-trending group have been found. One of particular interest is the partly concealed fault in Woodchuck Basin shown near the center of plate 1. The horizontal component of dis-

placement along this fault, as indicated by offset of the Arabian Boy and Silver Lake dikes, is left lateral or opposite to the movement along the northwestward-trending group. The fault may continue southwestward into Kendall Gulch, through a deep cleft in the ridge west of Kendall Peak. Talus covers the intersection of this fault and the Titusville vein. The plan map of the Titusville workings suggests, however, that a fault with left-lateral displacement was intersected underground on the 7th level (the level extending farthest west on plate 2) at the point where the drift makes an abrupt jog. The relative horizontal positions of this point underground, the cleft in the ridge, and the course of the fault, as it may be traced northward down into Woodchuck Basin, indicate that the fault dips steeply to the northwest. If this fault and the Silver Lake fracture are regarded as conjugate shears, then the indicated direction of compression is roughly north-south.

Another northeastward-trending shear fracture with left-lateral displacement cuts the Melville vein, as shown by Burbank in a detailed map of the fissures west of Silver Lake (1933a, fig. 2*b*). The position of this fault on plan maps showing levels of the Melville mine indicates that the fault also dips steeply to the northwest. Several other fractures, which are in part dike filled and which trend across Blair Gulch, are tentatively assigned to the northward-trending group.

DIAGONAL GROUP

The third group within the western shear system consists of many fissures that trend diagonally across the long narrow blocks bounded by the northwestward-trending group of shear fractures. The diagonal fractures generally strike N. 10°–30° W. but swing more northwestward or southeastward as they approach fractures of the main northwestward-trending group.

The most prominent diagonal fractures are those in the footwall of the Silver Lake fissure between Silver Lake and Woodchuck Basin. Fissures here are confined mainly to a few strong zones that include some of the most productive veins of the district, such as the New York, Iowa, Royal, Stelzner, Black Diamond, and Melville veins. Similar fractures diverge into the footwall of the Shenandoah-Dives fissure on Little Giant Peak (see figure 25), but the fractures here are more dispersed and complex and the veins are narrow and unproductive. Several veins in Little Giant Basin—the Mountain Quail, North Star Extension, Potomac, and Cremorne—belong to the diagonal group and have produced some ore.

The diagonal-fracture group was the last of the major sets of fractures to form and followed as a natural consequence to continued strong shearing along the northwestward-trending group. The origin of these fissures has been clearly presented by Burbank (1933a, p. 196–200, fig. 2), and additional mapping has added no data to modify his conclusions. Briefly stated, the diagonal-fracture group consists of discontinuous tension fractures produced by the friction and pressure along the main northwestward-trending group of shear faults, which intricately divided the previously unbroken rocks between the faults of the northwestward-trending group. Figure 2 from Burbank's Arrastra Basin paper is here reproduced as figure 12, and his explanation from pages 198 and 199 is given below.

> Figures 2 *A* and *B*, which illustrate the relation of the dikes near Silver Lake both before and after displacement, show that shearing stresses must have been induced in the continuous body of rock southeast of the termination of the Silver Lake dike by this shifting movement, and that rotational stress or a shifting direction of shearing force would also be induced in the footwall of the dike by the friction and pressure of the moving hanging wall block. In a body of rock subjected to nonrotational stresses, as in figure 2*C*, the axes of tension and compression are at right angles to each other and the planes of maximum shear occur at about 45° to these axes; but, as rotational stresses are commonly generated during actual failure, it is necessary also to consider the combination of different stresses existing in the rocks at Silver Lake and their effects upon this simple relation.
>
> The volcanic rocks just north of Silver Lake and in the hanging wall of the Silver Lake dike are divided or sheeted by numerous essentially vertical shear planes, most of which strike about N. 25° to 40° W., but joints of another less prominent and more irregular set strike northeast. The small movements along the walls of these joint fissures and their conjugate relations to one another indicate that they were probably produced by a compressive stress applied to the rocks approximately in a north-south direction. In the area shown on plate I [Burbank's geologic map of Arrastra Basin and vicinity] only the northwesterly joints are prominent enough to be mapped in most places; for some reason the conditions favor their strong development. Figure 2*E* thus illustrates the relation between shear fractures and a simple compressive stress applied to bodies where the maximum relief is in an east-west direction. These relations are closely comparable with the ideal condition illustrated by figure 2*C*, where an axis of compression lies at right angles to an axis of tension. The shear fractures, represented by the lines S and S′ in figure 2*E*, are represented by the sides of the parallelogram and marked by the arrows (*sh*). By observation it is known, however, that the planes of greatest shearing deformation in different materials vary with the properties of the material and with the rate of application of the force. Actual limits in the variation of the position of these conjugate shear joints seen north of Silver Lake are indicated by the dotted lines in figure 2 *D* or *E*. At Silver Lake the stresses that caused the conjugate joints were probably the result of radial compression induced by subsidence north of the Animas fault, and these stresses probably at the same time caused the shearing along the Silver Lake dike.
>
> If the regional compression is combined with a shearing or rotational stress, as shown in figure 2*D*, the planes of maximum shearing and tensile stress deviate from their position

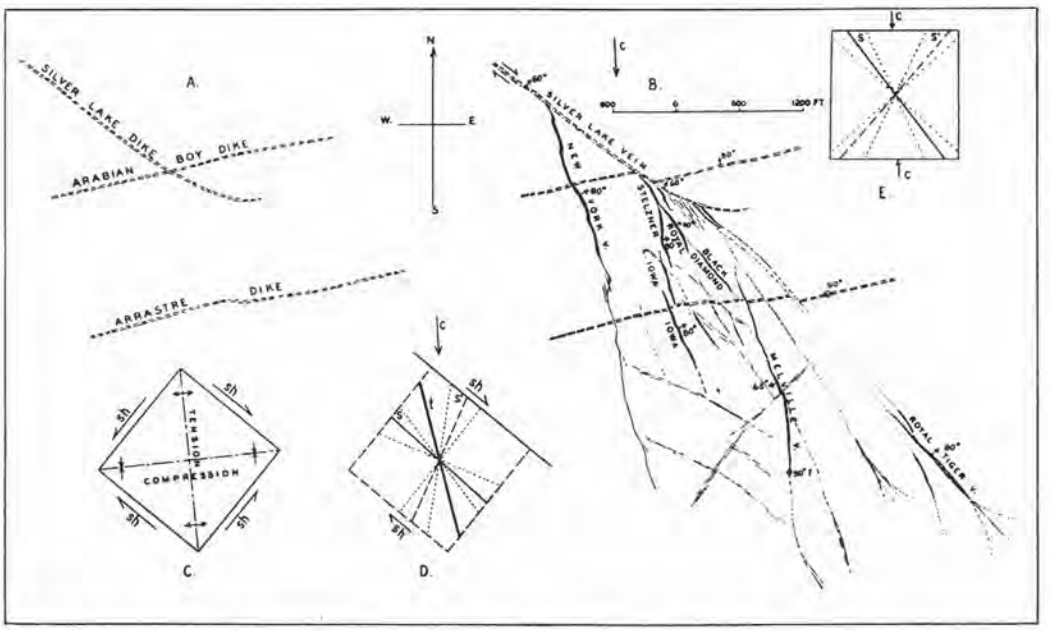

FIGURE 12.—Silver Lake vein system. *A*. Relation of the Silver Lake dike and other dikes before displacement. *B*. Relation of the Silver Lake vein system to displacement of the dikes. *C*. Axes of tension and compression and direction of maximum shearing stress (*sh*) in a body subjected to pure shear. *D*. Interpretation of stresses and resulting fractures near Silver Lake vein: *c*, regional compressive stress: *sh*, shearing stress: *s*, *s'*, shear fractures: *t*, tension fracture. *E*. Interpretation of regional stresses in hanging wall of Silver Lake dike: *s*, *s'*, shear fractures; *c*, regional compression. Reproduced from Burbank (1933a, fig. 2).

characteristic of the states of nonrotational shear or compression. As shown by the actual position of the footwall lodes, this is a minor change except where the planes of maximum movement are approached; here the tendency for the major fractures to become deflected toward the west is very noticeable. The change in strike and the tightening of the New York, Stelzner, and Royal veins as the Silver Lake fault is approached are described in the quotation from Ransome [1901, p. 147–148]. The weakness of the ground between the main fault and the footwall fractures at this junction and its proximity to the moving hanging wall probably account for local brecciation and the tightness of the footwall fissures.

As these footwall tension fractures, except close to the Silver Lake fissure, make a considerable angle with the plane of this major fissure and with the direction of shifting of its walls, the footwall fractures would tend to open by tension during movement along the Silver Lake fault. Furthermore, if, as appears probable, some relief from compressive stresses was afforded in an east-west direction, slight rotation of these blocks would permit the openings to be still further enlarged. Relaxation of the compression sufficient to permit settling of the hanging wall of the Silver Lake fault, which probably occurred, as in the Shenandoah-Dives, chiefly after the early epoch of horizontal shifting, would also tend to open further both shear and tension fractures in the footwall * * *.

As Burbank indicates, some rotation occurred along the slices of rock between the diagonal fractures. It was inevitable that as more fractures were produced the state of simple tension would be followed by a more complex state of stress, and some shearing would occur along fractures that were caused by tension. For example, the Arrastra dike is displaced laterally a few feet where crossed by some of the diagonal fissures west of Silver Lake. In particular, the offset produced by the Iowa fracture (fig. 12) and the en echelon arrangement of the Stelzner, East Iowa, and Iowa veins suggest that a zone of left-lateral shearing developed about midway between the New York and Melville veins.

EASTERN SHEAR SYSTEM

The eastern shear system lies within the eastern one-third of the large triangular area described previously. (See fig. 11.) This part includes roughly the area east of Cunningham Gulch and the southern part of the area covered by this report. Most of the eastern shear system is outside the area of recent field studies. The description of its general features and the hypothesis to be presented for its origin are necessarily based primarily upon the work of others, such as the Silverton folio (Cross, Howe, and Ransome, 1905) and the later mapping by D. R. Cook and J. C. Hagen (unpublished theses; see p. A4) near Cunningham Gulch, supplemented by some personal observation. The factual data are few, and the concept of an eastern shear system should be regarded as a hypothesis to be tested in the future, and perhaps revised considerably as new relations may be discovered.

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The principal faults of the eastern shear system belong to two curved sets of conjugate shear fractures, an epicycloidal set, and a hypocycloidal set, which occur only in a ring-shaped area around the southeast border of the caldera. As these geometric designations are rather meaningless, the two sets of fractures will be referred to in this discussion as the eastern arcuate group and the northwestward-trending group.

EASTERN ARCUATE (EPICYCLOIDAL) GROUP

The curving granite porphyry dikes that crop out in the southern and southeastern parts of the mapped area were previously included within the concentric system by Burbank (1933a, p. 182) and by Varnes (1948, p. 8), principally because of their dominant westward trend within the area shown on plate 1. More detailed study of their relation to regional structure, aided by unpublished data in the field notes of Cross and by more recent maps of part of the east side of Cunningham Gulch prepared by Hagen and Cook (unpublished theses; see p. A4) shows that these dikes are unrelated to the concentric system. Instead, they have been injected discontinuously into a strong shear zone that follows a curving course away from the southeastern border of the area of subsidence. The relation of this shear zone to the regional structural pattern, and its possible role as an outer limit of strong mineralization seems of great importance; but a thorough understanding of this shear zone and its dikes must await further mapping.

The dikes begin near, or within, the ring-fault zone of the caldera, 1½ miles northeast of the northeastern corner of the area shown on plate 1. Here, at an altitude of 11,400 feet on the northeast slope of Galena Mountain, Cross found a short segment of the granite porphyry dike 10 to 20 feet wide with a strike of N. 30° W. (Cross, Howe, and Ransome, 1905, p. 11; also field notes of 1901). This small outcrop of granite porphyry is not shown on the maps in the Silverton folio. The locality was visited in 1952, and several more short segments of the dike were found. A much longer exposure of granite porphyry was traced for about 1 mile obliquely up the northeast flank of Galena Mountain. The precipitous crest and the south slope of Galena Mountain and Stony Gulch were not examined. The next known outcrop of the dike to the south is near the crest of Green Mountain, southeast of the Pride of the West mine. From there the dike trends southwestward down the west side of Green Mountain through flows and tuff of the Burns quartz latite and Eureka rhyolite. Near the base of the volcanic series the dike trends due west and dips 63° N. At the contact with underlying Precambrian schist and gneiss, the dike turns abruptly southwestward, splits into two parts, and follows rather closely the foliation of the Precambrian rocks, which here strikes N. 30° to 50° E. and dips 85° NW. The dike or dikes are hidden beneath alluvium and talus in Cunningham Gulch, but two overlapping dikes crop out on the west side of the gulch. (See fig. 5.) At the point where the dikes once more leave the schist and gneiss and enter the overlying San Juan tuff, their general course again changes from S. 40° W. to S. 70° W., although not so abruptly as on the east side of Cunningham Gulch. The dikes continue southwestward and westward and end about 2 miles east of the Animas River on the ridge north of Deer Park Creek. The total length of this arcuate group is nearly 7 miles.

Except for the last mile or two near the southwestern end, the granite prophyry dikes do not trend in a direction concentric with the caldera. The dike group does resemble, however, other curved features to the northwest of the caldera and the spiral dikes around the Stony Mountain stock near Telluride, which have been described by Burbank (1941, p. 157–161). These fractures are similar to the spiral shear lines developed when a cylindrical punch is forced into plastic material. Burbank proposed that the spiral dikes around Stony Mountain occupy shear fractures resulting from pressure directed outward from the Stony Mountain stock, and he implied that other strongly curved fissures with appreciable horizontal movement, such as the Camp Bird vein, may be shear fractures due to pressure directed outward from the central area of subsidence (Burbank, 1941, p. 214–216).

Although the curving trend of the granite porphyry dikes suggests an arcuate shear slip, the actual dike-filled fractures in the volcanic rocks west of Cunningham Gulch show no evidence of shearing movement. The dikes pinch and swell irregularly and are not connected by any strong through-going fractures. They appear to have been injected into tension fractures, of the type illustrated in figure 13, formed in the cover of volcanic rocks by left-lateral shearing in the underlying Precambrian schist and gneiss. The trend of the dikes indicate that the lateral shear movement in the schist and gneiss took place approximately along the plane of foliation, at least in the southern part of the area, where the foliation may be observed.

The belief that lateral shear movements have occurred within the Precambrian rocks along the zone of granite porphyry dikes receives some additional support from mapping by Hagen at the Green Mountain mine on the east side of Cunningham Gulch, one-half mile north of the Highland Mary mill. The southeastward-trending lower tunnels begin in Eureka rhyolite, but within a few hundred feet enter the

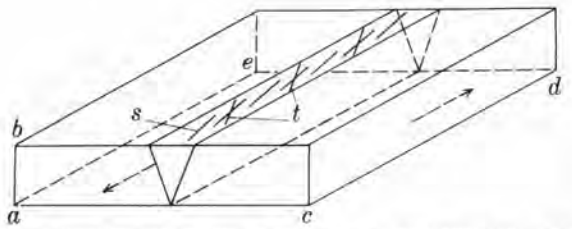

FIGURE 13.—Illustration from an experiment performed by Riedel (1929), in which a layer of clay of thickness *ab* was placed on a divided base *acde*. The two halves of the base were then displaced laterally as shown by the arrows. The resulting disturbed zone in the clay was wedge shaped. Tension cracks, *t*, and shear fractures, *s*, were produced in the clay. The tension cracks form first, and only if the clay is covered with a film of water. The en echelon shear fractures form at a lesser angle to the zone of shearing than the tension cracks and always point opposite to the direction of relative movement.

schist; a granite porphyry dike was found in the schist near the southeast end of the mine. Portalward from the dike, several faults in a zone 500 to 600 feet wide cut across the Green Mountain vein, which strikes N. 45° W. and dips 75° NE., and offset the vein a few feet to 35 feet. These faults strike north to northeast and dip steeply northwest; they are almost parallel to the foliation of the enclosing schist and gneiss and to the granite porphyry dike. The direction of relative movement, except for an apparent rotary movement of one block, is in the same relative direction along each fault; that is, the vein is displaced to the southwest in the hanging walls of the faults. Hagen interpreted the observed offsets of the vein to be due to the combination of northeast dip of the vein and normal downdip movement of the cross faults. The observed offsets of the Green Mountain vein could be due equally well, however, to left-lateral movement on the cross faults after the main period of mineralization. The direction of faulting along the eastern arcuate group would be then the same as was inferred from the en echelon arrangement of the granite porphyry dikes west of Cunningham Gulch.

Several northward-trending fractures have been included with the granite porphyry dikes in the same structural group. Among these are 2 of the 4 principal sets of fractures on Galena Mountain described by Ransome (1901, p. 171). The two sets that belong in this group strike north and N. 25° W.

The veins of Galena Mountain that trend N. 25° W. are described by Ransome as being very prominent and closely spaced nearly vertical fissures, which are filled with small stringers and in some places mineralized. The northward-striking veins are rather short and dip to the east about 80°. No important ore bodies had been found along any of them at the time of Ransome's visit in 1899. The larger lodes are accompanied by parallel fissures and veins in the country rock. Ransome noted that one of the northward-striking veins, the Veta Madre, is cut by a metal-bearing member of the set trending N. 25° W., but he detected no offset.

Almost all the northward- and north-northwestward-trending fractures on the east side of Cunningham Gulch and on Galena Mountain are accompanied by numerous and prominent parallel fractures and joints in the wallrock. These may suggest that shear movement with a horizontal component occurred along the principal members of the sets, but no direct evidence of differential movement has been found.

NORTHWESTWARD-TRENDING (HYPOCYCLOIDAL) GROUP

This group apparently is not as prominent as the complementary eastern arcuate, or epicycloidal, group but may be represented by the Green Mountain vein, by a few fractures of somewhat irregular trend on the north end of King Solomon Mountain, and possibly by the Little Nation vein, which lies within the ring-fault zone. Right-lateral horizontal shear displacements, before and after formation of the ore, along the Green Mountain vein were noted by J. C. Hagen (unpublished thesis; see p. A4).

APPROXIMATELY RADIAL GROUP

Included in this group are several fractures that trend approximately normal to the ring-fault zone. Most of them lie outside the area of detailed study and are known only from Ransome's short descriptions and their plotted position on the folio map. There is no field evidence for lateral movement on any of them and they were excluded from the analysis of shearing in the eastern system. Among these are the prominent lodes trending N. 65° W. on the west side of Galena Mountain, which cut the veins of this area that trend northward and N. 25° W. Ransome (1901, p. 57) states, however, that no displacement was visible. There is also a prominent quartz vein, which trends northwestward along the crest of Green Mountain and which may belong to this group. It cuts an older vein that strikes N. 60° E. (Ransome, 1901, p. 170), but Ransome did not mention faulting.

The Pride of the West is the most productive vein tentatively assigned to this group. The strike of the Pride of the West vein zone (including veins worked in both the Pride of the West and Osceola mines) changes in an almost continuous arc from N. 30° E. at the south to N. 30° W. at the north. It dips 50°–70° W. At its southern extremity, the vein zone appears to have about the same strike and dip as the shear fractures associated with the granite porphyry dikes in the Green Mountain mine a short distance to the south. I agree with Cook that there has been little

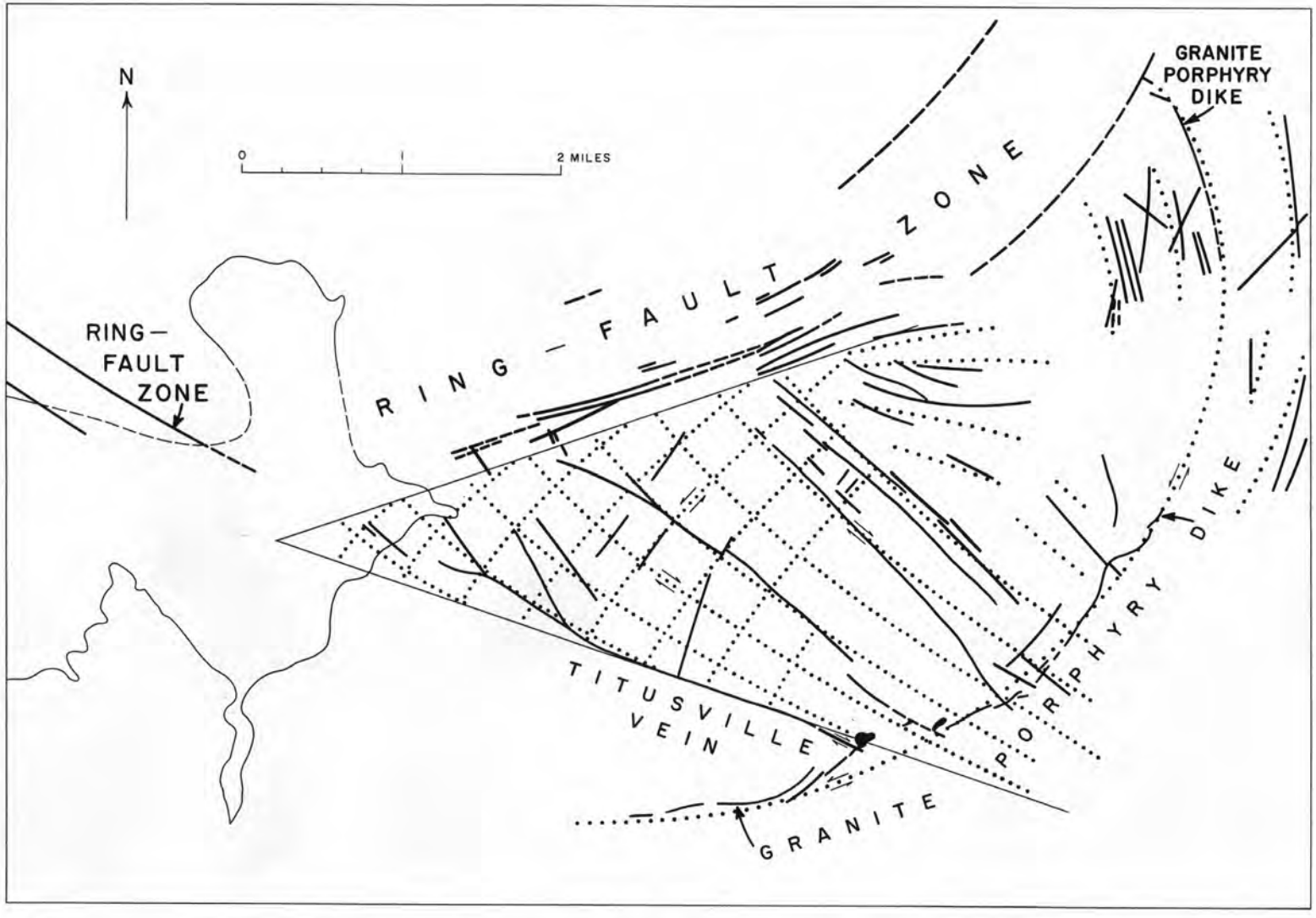

FIGURE 14.—Comparison of pattern of actual faults (solid lines) in the South Silverton district with theoretical pattern of principal shear stress trajectories (dotted lines).

or no lateral movement along the Pride of the West zone, although direct evidence for such movement would be difficult to find, owing to the complexity of the volcanic flows and prevalence of timber and talus cover.

The idealized pattern of the eastern and western shear systems together with those of the observed faults and veins is shown in figure 14. The right center part of the figure is nearly blank and corresponds apparently to an area of relatively poor mineralization between Little Giant Basin and Cunningham Gulch. Very steep slopes and cliffs made it impossible to map some of this area in detail. But exposures are fairly good and most of the few veins that were seen trend in directions having little relation to the dominant regional structure.

DIPS AND EVIDENCE FOR REVERSE FAULTING

Shear fractures of the idealized patterns shown in figure 14 are vertical; in reality the major fractures, although generally steep, dip in some places at angles as low as 55°, and it may be assumed that the departure from the idealized condition of plane strain is responsible for this difference. But it is impossible, at least at this time, to reach any general theoretical conclusions concerning the reason why the fractures dip as they do or what effect depth may have on their attitude and continuity.

The observed dips are as follows: The main northwestward-trending shear fractures of the western shear system dip northeastward, except for the Big Giant and Black Prince-Gold Lake veins at the northeast border of the group. The few data available indicate that northeastward-trending shear fractures of this system dip steeply northwestward. Northwestward-trending fractures of the eastern shear system dip northeastward, so far as is known. The dips of the Titusville fracture and of fractures of the eastern arcuate group appear to be consistently inward toward the mineralized triangular area until they approach close to the ring-fault zone, where each fracture splits into en echelon groups of fractures that dip outward. Some fractures at the northwest end of the Titusville fracture, for example the Idaho vein, dip steeply southwestward; and parts of the granite porphyry dike on Galena Mountain dip steeply northeastward. For these reversals of dip, shown diagrammatically in figure 15, there is no ready explanation.

Most of the northwestward-trending fractures within the triangular area dip for the greater part of their length obliquely toward the ring-fault zone. It might be expected, therefore, that strong compression from the north would produce reverse or thrust movements, as well as horizontal slip, along those fractures

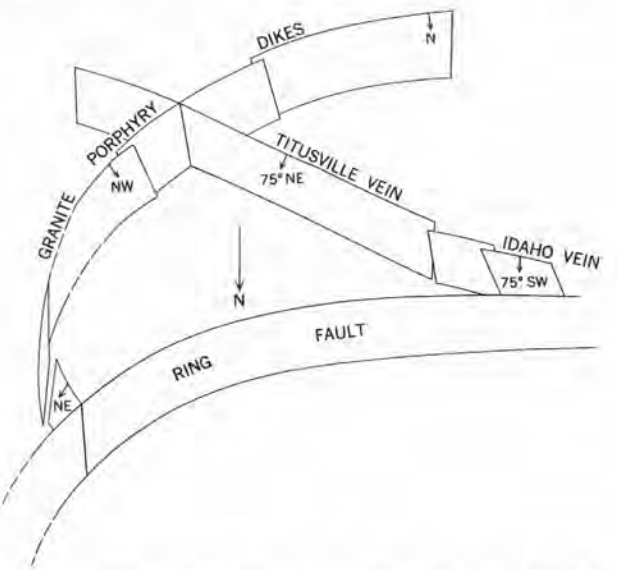

FIGURE 15.—Diagrammatic sketch of the granite porphyry dikes and the Titusville vein, as if viewed from the north, illustrating reversals of dip near the ring-fault zone.

that have a northward component of dip. Displaced contacts, however, show evidence only of normal down-dip movement. Yet any thrusting would have had great influence, especially in the initial stages of deformation, upon the arrangement of individual fractures within each of the large shear zones and upon the localization of ore shoots.

Indirect evidence suggests that thrusting actually did occur along parts of the northwestward-trending group of shear fractures. In the Shenandoah-Dives vein system the principal fractures overlap as is shown, greatly simplified, in figure 16. According to the relations of overlapping shear fractures shown in figure 13, the hanging wall of the Shenandoah-Dives shear system should have moved not only southeastward but also upward relative to the footwall. Subsequent normal faulting opened what appear to be steeply dipping tension fractures, such as the Morgan fracture shown in figure 16*C*. The formation of the Morgan fracture between two major shears is analogous to the formation of the diagonal fractures between the Silver Lake and Titusville veins; that is, vertical section 16*C* is mechanically analogous to the plan view of figure 12*D*.

The arrangement of the major fractures in the Shenandoah-Dives vein system, which indicates initial thrusting, is reproduced on a much smaller scale by gouge planes along the Mayflower vein itself. Figure 17 shows the relation of ore shoots to changes in strike and dip and to gouge planes. It is copied from Burbank (1933a, fig. 1), except that, in the section, the initial thrust movement believed to have caused the

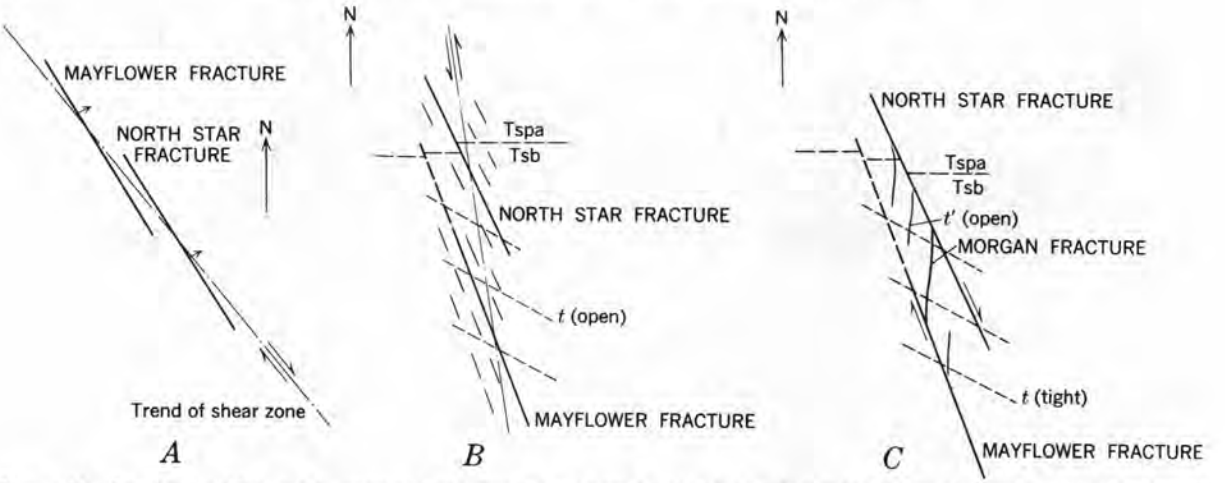

FIGURE 16.—Greatly simplified and diagrammatic relations of overlapping veins in the Shenandoah-Dives vein system. *A*, Plan showing how the Mayflower and North Star fractures trend slightly oblique to the shear zone; the obliquity is exaggerated. *B*, Section, showing en echelon arrangement of veins relative to shear zone, indicates initial thrust movement. *C*, Section showing result of normal faulting after relief of stress. Some tension fractures (dashed line), *t*, may have been opened during thrusting but became tight during normal faulting; other tension fractures (solid line), *t'*, of which the Morgan fracture is one, would open during normal faulting.

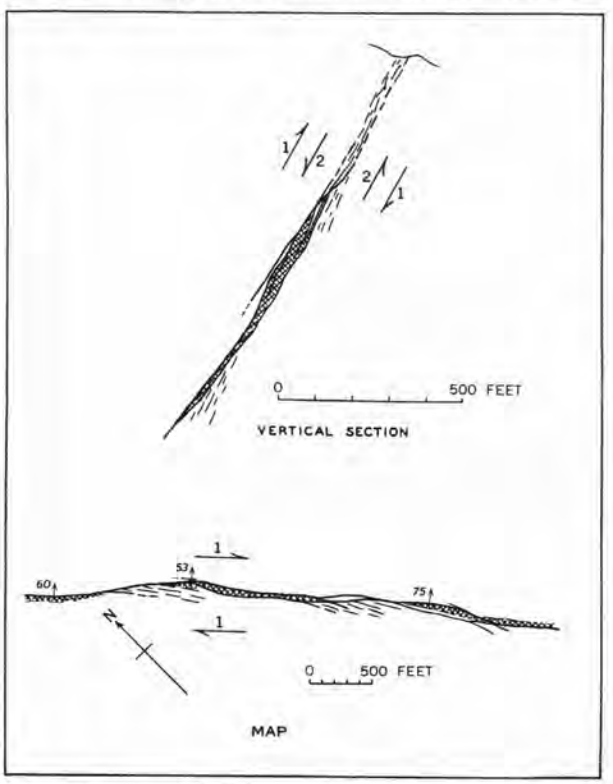

FIGURE 17.—Map and vertical section of the Shenandoah-Dives vein and ore shoots, representing diagrammatically relation of ore shoots to changes in strike and dip of veins, and to gouge planes (heavy lines). The Shenandoah-Dives dike (Mayflower dike) is omitted to simplify the diagram, and the width of ore shoots and vein are exaggerated. Ore shoots are indicated by cross hatching. Taken from Burbank (1933a, fig. 1). Arrows 1 have been added to the section to indicate the initial thrust and right-lateral movement that probably produced the gouge planes; arrows 2 indicate later normal movement.

gouge planes is indicated as well as the final normal movement. The general tendency for the gouge planes to pass, if followed upward, from the hanging wall of the fissure zone to the footwall suggests reverse faulting. According to Burbank (1933a, p. 188):

> When an ore shoot whose hanging wall is limited by such a gouge plane is stoped upward it is found that this gouge may change its dip and flatten in such a way as to pinch off the high-grade ore at the top of the shoot and then pass into the footwall.

These gouge planes are generally older than the ore, and they acted as impermeable baffles, directing the localization of ore shoots.

Strong lateral movement, accompanied by some thrusting, seems to have alternated with downward movement of the hanging walls in response to gravity. Gravitational adjustments would require that pressure from the north be relaxed somewhat. The cycle may have been repeated several times. Almost all fractures of the western shear system that were produced either by horizontal shear or by normal faulting, except the northeastward-trending group, contain vein matter in greater or lesser amounts. Therefore, at least one cycle was completed before mineralization.

Some movement has occurred after mineralization along both the northeastward- and northwestward-trending groups. Gouge-filled fissures, most of them formed after mineralization, were examined by Burbank in the Dives mine. They have striations that pitch 5°–25° NW. (Burbank, 1933a, p. 204). These suggest a thrust component in late slip. The northeastward-trending fault in Woodchuck Basin appears to offset a little the Silver Lake vein and dike and perhaps

also the Titusville fracture. This fault is not conspicuously mineralized. These offsets, and their small total movement, indicate that parts of the northeastward-trending group are of very late age and may have been formed by renewed compression after the northwestward-trending fissures were so tightly sealed by dike and vein matter that failure was easier through fresh rock along the complementary direction of principal shear.

ORE DEPOSITS

HISTORY OF MINING AND PRODUCTION

For comprehensive and well-written accounts of the development of Silverton as a mining camp the reader is referred to Ransome (1901) and to Henderson (1926).

Although the discovery of gold in Arrastra Gulch first brought miners to this area in the early seventies, the discovery of silver in the base-metal ores was the major factor in establishing Silverton as a permanent camp. Between 1870 and 1890 the richer deposits were discovered and mined to the extent permitted by the prevailing methods of mining, transporting, and smelting such ores. About 1890 serious attempts to mine and concentrate the larger bodies of low-grade ore led to the successful operation of the Silver Lake mines on a large scale by E. G. Stoiber. Since 1900 the greater part of the production of the area has come from low-grade milling ores containing gold, silver, copper, lead, and zinc.

Production by principal mines through 1957 is summarized in table 6 and shown graphically in figure 18. For convenience in showing total production from the Shenandoah-Dives vein system, the production from each of several formerly independent mines, later all consolidated with the Shenandoah-Dives, has been grouped together. The production from the Shenandoah-Dives, together with that of the Highland Mary mines and Trilby Tunnel (pl. 2), has come from several individual veins within a larger fracture zone. Although the Pride of the West mine is a short distance beyond the east edge of the area shown on the geologic map, the mine was mapped and its production is also included in table 6.

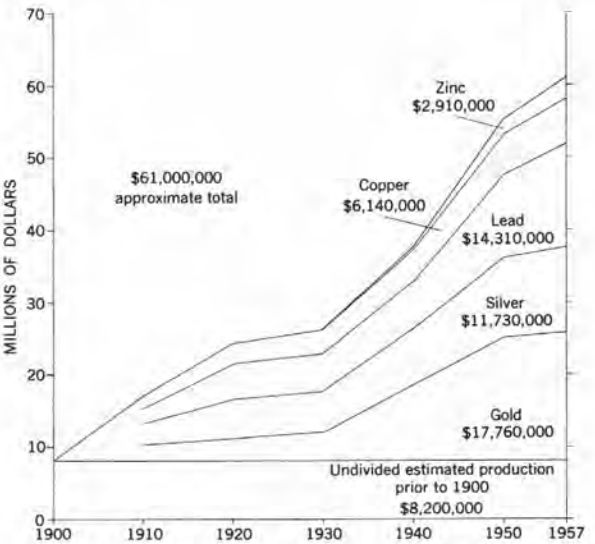

FIGURE 18.—Cumulative production record, 1900–'57, South Silverton mining area, San Juan County, Colorado. Gross value of metals in direct smelting ore or in concentrates; zinc in zinc concentrates only. Computed from average metal prices for each year, without premiums. Compiled from production records furnished by Statistics Branch, Economics Division, U.S. Bureau of Mines, Denver, Colo.

TABLE 6.—*Production from 1901 through 1957 of the principal mines of the South Silverton mining area in terms of total metal in direct smelting ore and concentrates*

[Compiled from production records furnished by the Division of Mineral Industries, U.S. Bureau of Mines, Denver, Colo.]

Mine	Ore (thousands of tons)	Gold (thousands of oz.)	Silver (thousands of oz.)	Copper (thousands of lb.)	Lead (thousands of lb.)	Zinc (thousands of lb.) [1]	Approximate gross value [2]
Shenandoah-Dives [3]	4, 099	413	8, 984	22, 713	65, 642	19, 145	$29, 330, 000
Silver Lake mines [4]	849	110	3, 277	12, 706	27, 974	1, 299	7, 790, 000
Pride of the West-Green Mountain	346	26	1, 345	1, 394	39, 936	4, 698	6, 310, 000
Iowa-Royal Tiger	376	46	1, 210	3, 982	43, 043	----------	5, 010, 000
Highland Mary and Trilby	168	16	2, 513	1, 263	9, 120	1	3, 060, 000
All others [5]	58	5	246	966	6, 318	2, 381	1, 350, 000
Total	5, 896	616	17, 575	43, 024	192, 033	27, 524	$52, 850, 000
Estimate of approximate value of ore produced prior to 1901 [6]							8, 200, 000
Approximate total							$61, 000, 000

[1] Zinc in zinc concentrates only.
[2] Computed from average metal prices for each year.
[3] Includes production from North Star (King Solomon), Dives, Shenandoah No. 3, Mayflower, Shenandoah-Dives for 1928–53 and production from Silver Lake unit for 1944 and 1946–53.
[4] Principally production from the Silver Lake, New York, Titusville or Letter G, Royal, and Stelzner veins.
[5] Includes Aspen, Big Giant, Black Prince, Ezra R., Gold Lake, Gray Eagle, King Solomon, Lackawanna, Little Nation, Mighty Monarch, New York, Oscoda, Potomac, and White Quail.
[6] Based upon reports of the Director of the Mint and upon very general information obtained from many sources. May be too low by several million dollars.

The metalliferous deposits are of three general types: veins, replacement bodies, and disseminated deposits. Veins are by far the most important and have accounted for almost all of the production from the district.

The most productive veins have long been studied, not only for solving day-to-day problems in mining but also for scientific reasons, as instructive examples of epithermal mineral deposits controlled by geologic structures. The reader is referred again to Ransome (1901), Burbank (1933a), and the several references in the section on previous studies. No attempt is made here to repeat in detail the findings of previous workers, or even to summarize, except very briefly, the principal features of individual veins. Most of the present work was concentrated upon the structural pattern of the district as a whole. The mineralogy and paragenesis of the ores, and the finer structures of many of the veins remain largely untouched and may offer fertile fields of investigation.

VEINS

AREAL DISTRIBUTION

The section on fracturing south of the ring-fault zone already has described the pattern of veins within the district. At this point, however, it may be useful to review briefly the main systems of fractures, naming the veins that belong to each system. (See pl. 1 and fig. 11.)

First, the system of fractures that are approximately concentric with the southern border of the caldera and ring-fault zone. Most of these fractures are filled by dikes, such as the Arabian Boy and Arrastra dikes, and they are not heavily mineralized.

Second, the western shear system, which consists of two conjugate groups of shear fractures and a group of diagonal tension fractures. The northeastward-trending group of shear fractures is not mineralized, but the northwestward-trending group is heavily mineralized and includes the Titusville (Letter G), Silver Lake-Royal Tiger, Aspen, Shenandoah-Dives vein system, Big Giant, and Black Prince-Gold Lake veins. The group of diagonal tension fractures of the western shear system comprises numerous fissures trending somewhat west of north. Among these are the Scranton City vein in Swansea Gulch, the New York, Iowa, Royal, Stelzner, Black Diamond, and Melville veins of the Arrastra and Woodchuck Basins, from which has come much of the district's production, and the North Star Extension, Mountain Quail, and Potomac-Cremorne veins in Little Giant Basin.

Third, the eastern shear system, consisting of a group of arcuate granite porphyry dikes and related northward-trending fractures and veins that are not heavily mineralized, a northwestward-trending group of shear fractures that includes the Green Mountain vein, and a radial group that includes the Pride of the West vein. Lateral displacement has not been observed along members of this last group.

The ring-fault zone itself contains many veins, but most are either very narrow or barren. Strong veins where traced northward into the ring-fault zone generally weaken and are dispersed. The ring-fault zone forms an inner limit to the area of strong mineralization, at least to the area of well-defined veins. The outer limit seems to be determined at the south and east by the Titusville fracture and by the granite porphyry dikes.

MINERALOGY AND ZONING

The veins are of the complex-sulfide type and may be classed as upper mesothermal or epithermal deposits. Pyrite, galena, sphalerite, and chalcopyrite in a gangue of quartz and minor calcite are the most abundant vein minerals. Gold and argentiferous galena have accounted for most of the value. Tetrahedrite is locally abundant and often carries considerable silver. Visible free gold is very rare in this area. Ransome noted one specimen from the Royal Tiger mine, and free gold reliably is reported to have come from the Highland Mary mine. Native silver is also uncommon but was reported by Ransome from the Pride of the West and Aspen mines. Hematite, associated with chalcopyrite and pyrite in quartz and with minor amounts of galena and sphalerite, occurs in many of the veins and is especially common in the lodes of Little Giant Basin. Fluorite is abundant on some of the dumps of the Aspen mine. It was noted by Burbank (1933a, p. 204) in the Shenandoah-Dives lode in Dives Basin, where, with calcite, it forms a vein that crosses the ore-bearing fissures. Barite is a minor constituent of some veins in Arrastra Basin and in the Montana vein near Deer Park Creek; it is abundant along the southeastern parts of the Shenandoah-Dives lode. Rhodochrosite was reported by Ransome (1901, p. 73) to be common in the gangue of the Titusville vein.

Any lode generally shows some variation in mineralogy both across its exposure and along its outcrop. The variation is due in part to successive opening of individual fractures in the vein zone and to deposition of somewhat various proportions of minerals during the several stages of mineralization. However, the suite of minerals in most of the veins remains the same for several thousands of feet although the relative proportions of the minerals and the tenor of the ore may vary within wide limits.

Differences in the mineralogy of veins of one locality and those of another are neither so distinct nor so regular that zoning is well defined. Concerning zoning south of the caldera, Burbank wrote (1933a, p. 165–166):

> There is a rough zonal distribution of the different kinds of ore suggesting that the igneous intrusions and the Animas fault were the principal agents controlling sources and trunk channels by which the mineralizing solutions were fed into open fissures in which ore bodies were deposited. Ore occurring in the northwesterly fissures immediately adjacent to the Animas fault zone near Arrastra Basin contain some specularite and are characterized by the base-metal sulphides, chalcopyrite, galena, and sphalerite, with a gangue of quartz and chlorite. Locally they carry sufficient free gold associated with the chalcopyrite to make it an important constituent of the ore. Ore bodies in the same fissure a mile or two farther southeast contain the base metals also, but argentiferous tetrahedrite or freibergite becomes an abundant constituent of the ores and barite, rhodochrosite, and manganiferous calcite become more abundant constituents of the gangue. Gold is here the less important and silver the more important constituent of the ore. Barren quartz and calcite succeed these silver ores still farther southeast from the fault zone. The eastern zone of the mineralized area near Maggie Gulch is characterized by extremely siliceous ores with finely disseminated sulphides and argentite. Pyrite is common in the ores. They were mined for their gold and silver content only. The ores of Sultan Mountain, at the west contain the base-metal sulphides with some tetrahedrite in a gangue of quartz and barite and in the past were mined chiefly for their silver and lead content. The most heavily mineralized and most massive base-metal veins are those of the Arrastra Basin and Silver Lake mines and the veins of Cunningham Gulch, which lie about in the center of the mineralized province south of the Animas fault. There are, however, sufficient exceptions to an idealized zonal arrangement to indicate that structure has been locally more influential than the commonly accepted temperature zones in controlling the distribution of the different ores. Furthermore, it is apparent that the largest exposed body of quartz monzonite west of Silverton does not lie above the source from which ore solutions emanated, but rather that this body and the several smaller bodies are only shallow manifestations of more deeply buried bodies of molten rock that were rising along the marginal faults and that remained partly molten long after the solidification and fracturing of intrusive rocks now exposed.

Mapping in the area surrounding Arrastra Basin has not produced many new facts to make Burbank's statements more definite. There does seem to be a general increase in calcite and barite in the gangue of the veins as they are traced southeastward, and some decrease in the proportion of chalcopyrite and hematite relative to galena. Hematite is also more abundant in the Titusville and Scranton City veins to the west of Arrastra Basin, and in the veins of Little Giant Basin to the northeast, than it is in the veins of Arrastra Basin itself.

The distribution of tetrahedrite appears to be somewhat more complex than indicated by Burbank. He noted that tetrahedrite is an important constituent in the southeastern parts of the veins, especially in the Highland Mary and Royal Tiger mines. But it was also abundant in the North Star mine on the Shenandoah-Dives lode, high on Little Giant Peak and midway along the length of the vein. More remarkable, it occurred as pockets and bunches in the ore of the Aspen mine (Ransome, 1901, p. 163) within the ring-fault zone to the northwest. Silver-rich tetrahedrite has been found in the Pride of the West, Philadelphia, and Green Mountain mines on the east side of Cunningham Gulch. On the basis of these few data, the tetrahedrite appears to be distributed in a roughly dome-shaped "shell," or zone, in the mineralized area. Much of the dome is now eroded away. The Aspen veins and Shenandoah-Dives lode trend continuously northwestward across the dome, and tetrahedrite occurs along this profile at a low altitude at the north end, at very high altitudes in the middle on Little Giant Peak, and at lower altitudes to the south in Dives Basin and in the Highland Mary mine. The rest of the "shell" would extend southward and southwestward to the higher levels of the Royal Tiger mine and eastward and downward to the lodes of Cunningham Gulch.

Most production records include the yield from several veins and from mixed ore so that the tenor of individual veins cannot always be distinguished. The available data partly bear out Burbank's statement that the ratio of silver to gold increases southeastward along the veins. The ratio is also moderately high, however, next to or within the ring-fault zone. It decreases in the vicinity of the Mayflower vein of the Shenandoah-Dives vein system and then increases sharply farther southeast. These relations are shown by some records of partial production of the several veins given in table 7.

The production records of mines along the Shenandoah-Dives vein system and its northern prolongation, from the Aspen mine southeastward to the Highland Mary mine, reflect not only the rough zoning already described but also other relations among the metals contained in the ores. Some of these relations appear to characterize the ores extracted from certain parts of the district and hence may aid in delineating zones in the district.

The production of gold, silver, copper, and lead from ores of the Aspen mine, in the years 1906 through 1929, is shown in figure 19*A*. In this figure the amount of each metal contained per ton of ore is plotted on an individual logarithmic scale but the scales for the several metals are shifted vertically relative to each other, so that the curves are separated. If two curves

TABLE 7.—*Silver-to-gold ratio in ore extracted from several veins*

[Computed from reports from the Director of the Mint and from records furnished by the Division of Mineral Industries, U.S. Bureau of Mines]

	Approximate ratio Ag:Au (by weight)	Period of production	Amount of ore involved in Ag:Au ratio calculation (tons)
Veins near or within the ring-fault zone:			
Idaho	100	1882	
Aspen	640	1888	
	197	1891–92	
	69	1906–30	11,600
Little Nation	300	1908–45	7,070
	275	1946–57	5,250
Lackawanna	67		1,100
Gray Eagle	70		1,200
Veins at an intermediate distance from the ring-fault zone:			
Mayflower	17	1916–19	25,800
Mayflower (Shenandoah Dives Co.)	16	1928–40	2,000,000
Silver Lake mines	31	1901–20	
	21	1941–45	
Big Giant	23		300
Little Giant	(1)	Before 1901	
Osceola	20	1946–57	30,000
Veins at a great altitude or far southeast of the ring-fault zone:			
North Star (King Solomon)	1,370	1888	
	1,343	1891	
Shenandoah and Dives claims	544	1904–08	
Highland Mary mines	2,060	1888	
	1,230	1911–40	
	41	1941–50	
Pride of the West and Green Mountain	52	to 1957	
Philadelphia	(2)	Before 1901	

[1] Low.
[2] Very high(?).

are parallel in such a plot the metals represented are present in a constant ratio by weight. There is a general tendency for the tenor of metals to vary together, and for the ratios between some metals to be fairly constant during several years production.

A more graphic test for covariance can be made by redrawing figure 19*A* so that the curve for one metal is made a horizontal line. If the curve for another metal then becomes practically horizontal, a parallelism or constant-weight ratio becomes evident. Figure 19*B* shows the curves rearranged so that the curve for silver is constant, or a horizontal line; each curve now represents a metal-to-silver ratio. All curves are flatter than those on figure 19*A*, which reaffirms the very general convariance of all metals with silver. Also, it appears that the copper-silver and lead-silver ratios vary inversely for the years 1911–27. This inverse relationship in ratios of the two metals to silver may be due to an inverse relationship between lead and copper themselves, for which there is some suggestion in figure 19*A*. In this case lead and copper possibly were competing for the available sulfur during deposition. The inverse ratios for silver may also indicate that copper and lead minerals were competing for silver and that these affinities differed in various parts of the ore body.

In order to explore these relationships further, similar plots were made for production from the Little

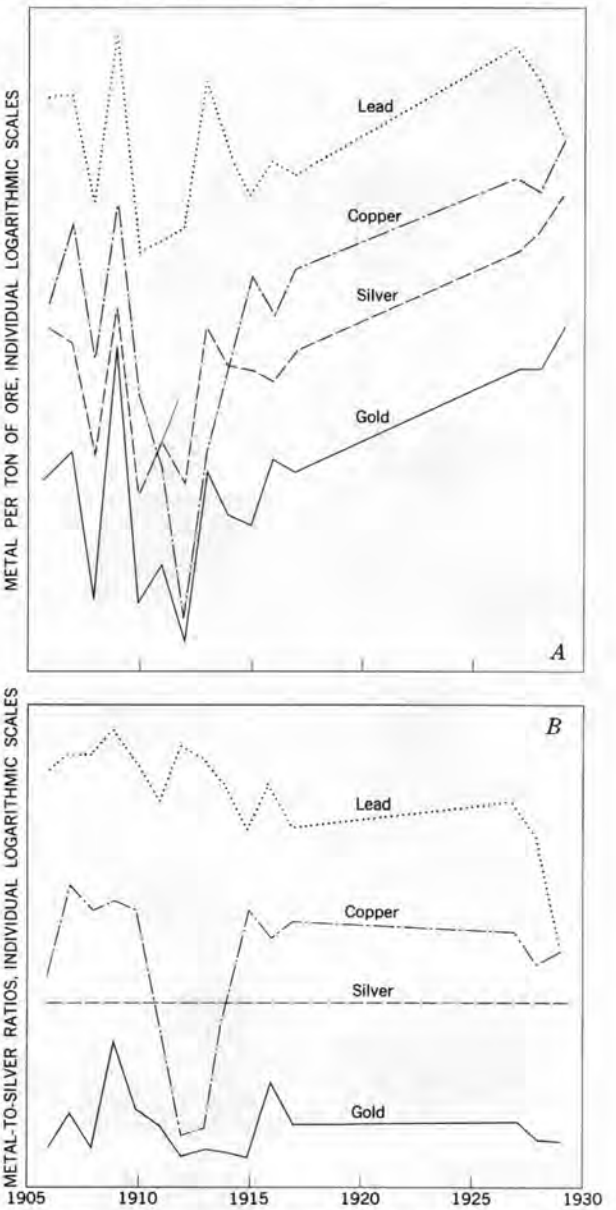

FIGURE 19.—Relations among metals contained in smelting ore or concentrations from the Aspen mine. *A*, Metal per ton of ore; *B*, Metal-to-silver ratios. Curves are to individual logarithmic scales and indicate only variations of metals relative to each other, not absolute amounts. Derived from production records furnished by the Division of Mineral Industries, U.S. Bureau of Mines, Denver, Colo.

Nation mine, which is also within the ring-fault zone in a similar geologic environment. A plot of metal contained per ton of ore, as in figure 19*A*, is shown in figure 20*A*. In this ore there is little tendency for copper to vary consistently with lead, either directly or inversely. Silver shows a fairly consistent direct variation with copper. The plot of the ratios of gold

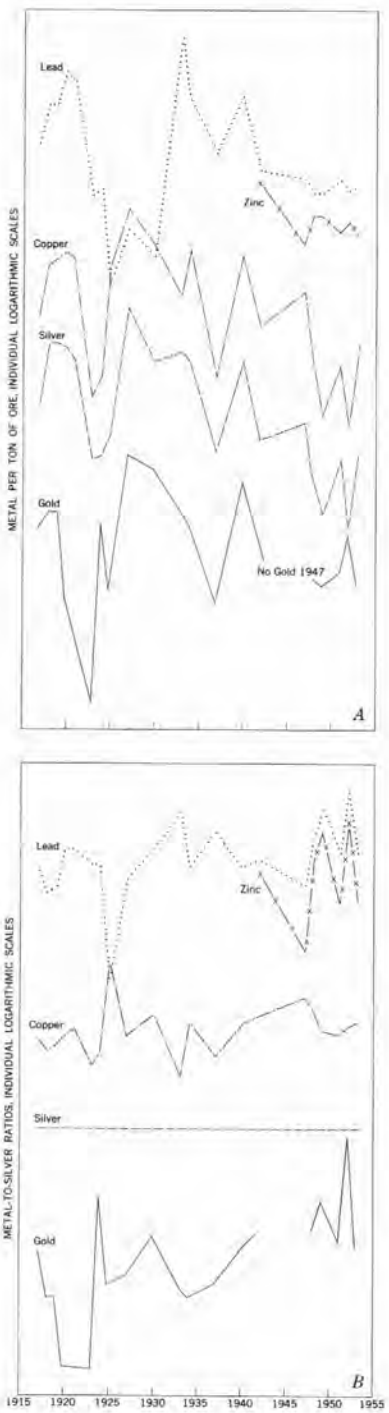

FIGURE 20.—Relations among metals contained in smelting ore or concentrates from the Little Nation mine. *A*, Metal per ton of ore; *B*, Metal-to-silver ratios. Curves are to individual logarithmic scales and indicate only variations of metals relative to each other, not absolute amounts. Derived from production records furnished by the Division of Mineral Industries, U.S. Bureau of Mines, Denver, Colo.

to silver, copper to silver, and lead to silver in figure 20*B*, to a logarithmic scale as before, now show a very striking and consistent inverse relationship between the ratios of copper to silver and of lead to silver. The average between log (Cu/Ag) and log (Pb/Ag) is very nearly constant except in very early and very late years. A truly constant relationship could be written:

$$\tfrac{1}{2}\,[\text{l og (Cu/Ag)}+\log\text{ (Pb/Ag)}]=K$$

$$\log\left[\left(\frac{\text{Cu}}{\text{Ag}}\right)\left(\frac{\text{Pb}}{\text{Ag}}\right)\right]=2K$$

$$\frac{\text{Cu Pb}}{\text{Ag}^2}=\text{a constant}$$

This equation suggests that if all metals were introduced at the same time, some chemical process tending toward equilibrium operated at the time of deposition. But without quantitative information on the mineralogy of the vein, and additional data on iron, zinc, and sulfur content of the ore, the nature of this process cannot be determined.

For ores from the area somewhat farther to the south and east the relations among the metals appear to be more complex and less consistent. This is the area of large production from the Pride of the West and Green Mountain mines, the Shenandoah-Dives operations in the Mayflower, Morgan, and other veins, and the many veins worked by the Silver Lake mines. Doubtless part of the lack of consistent relations among the metals produced from each of the several mills is due to mixing of ores from several individual veins or from widely separated stopes on a single vein. Figure 21*A* shows metal contained in concentrates per ton of ore milled by the Shenandoah-Dives Mining Co. during the years 1928-1945, excluding ore from the Silver Lake unit. There is a definite concurrence in trend between copper and silver, and to a lesser degree between copper and gold through 1941, but little or no relation holds between lead and other metals until the last years shown. Ratios of lead to silver and of copper to silver are unrelated, as shown in figure 21*B*, as long as there is a significant amount of copper in the ore.

Similar plots for ores from the Pride of the West and Green Mountain mines, not reproduced here, show a tendency for relations of all metals to be somewhat consistent until about 1936, when the relations become irregular. Ratios of copper to silver and of lead to silver vary together from 1907 to 1941, inversely from 1941 through 1951, and directly thereafter.

Silver Lake ores, which came from many veins, show no obvious relations among the metals. Content of silver appears to vary with content of both copper

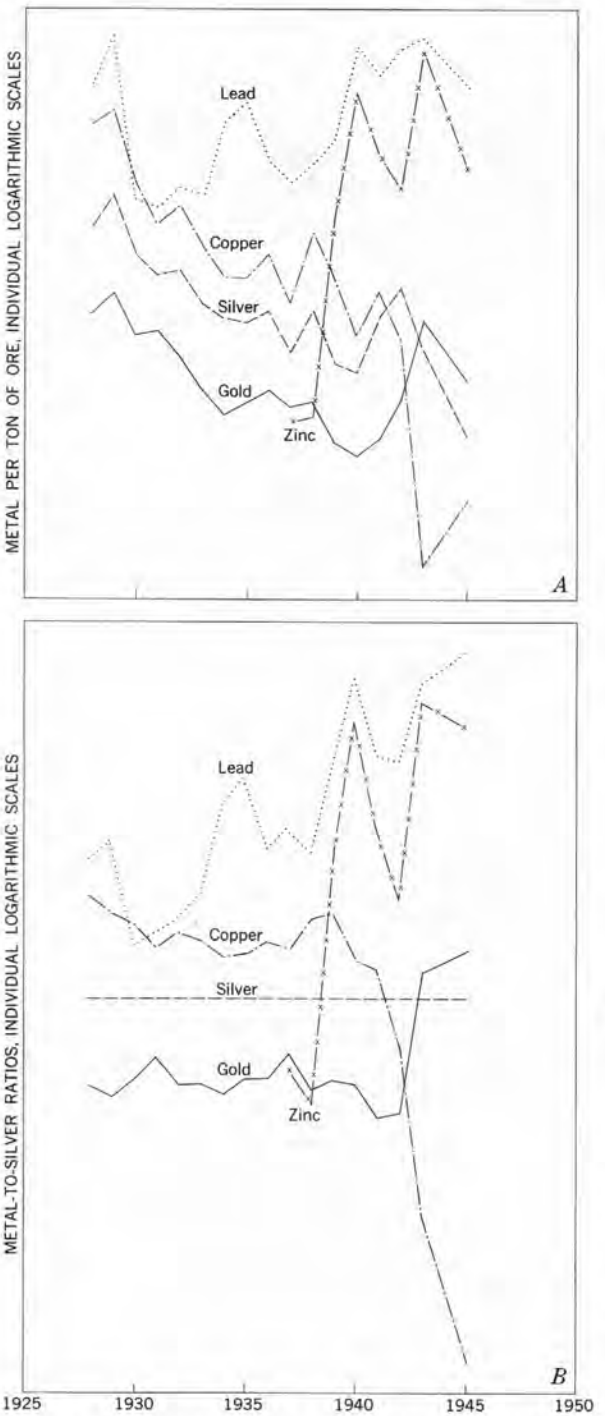

FIGURE 21.—Relations among metals contained in concentrates produced by the Shenandoah-Dives Mining Co. operations through the Arrastra Gulch portal. *A*, Metal per ton of ore; *B*, Metal-to-silver ratios. Curves are to individual logarithmic scales and indicate only variations of metals relative to each other, not absolute amounts. Derived from production-records furnished by the Division of Mineral Industries, U.S. Bureau of Mines, Denver, Colo.

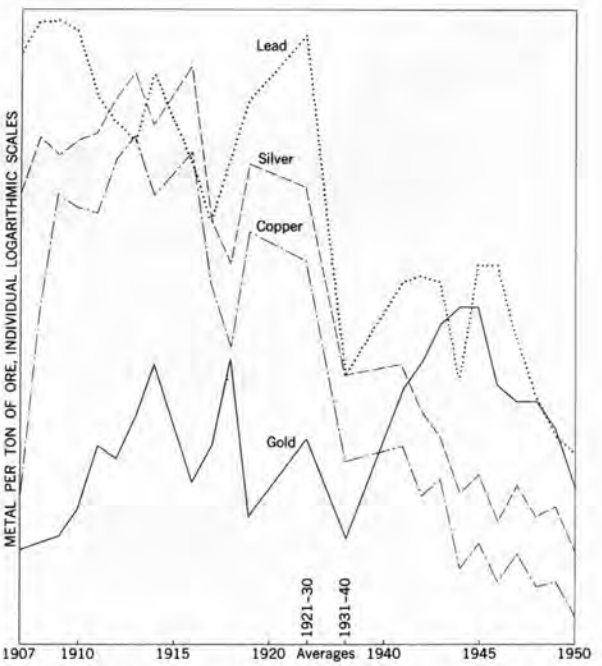

FIGURE 22.—Relations among metals contained in smelting ore or concentrates from the Highland Mary mine. Curves are to individual logarithmic scales and indicate only variations of metals relative to each other, not absolute amounts. Derived from production records furnished by the Division of Mineral Industries, U.S. Bureau of Mines, Denver, Colo.

and lead, but perhaps with lead more closely. Mixed ore from the Iowa-Tiger operations, from mines around Arrastra Basin, also shows few consistent relations among the metals. The trend of gold content follows that of silver but with smaller fluctuations. Silver appears somewhat more closely related to copper than to lead.

Still farther southeast, the ores of the Shenandoah-Dives vein system progressively assume a different and very definite character. Ore from the Dives mine shows strong correlation in trend between copper and silver, unless the content of lead is very high and that of copper very low. The content of copper tends to vary inversely with that of lead, and gold is erratic and unrelated to other metals. These changes in the character of the ore are even more evident in the production of the Highland Mary mine at the southeast extremity of the Shenandoah-Dives vein system. Contents of metals in ore or concentrates, per ton of ore shipped or milled are shown in figure 22, again to logarithmic scales that are shifted relative to each other. The remarkable parallelism between copper and silver means that the ratio of copper to silver is substantially constant. This ratio, whose average is 0.53 pound copper per ounce of silver, does not vary appreciably with

the silver content, which ranges from 180 to 2.4 ounces per ton, or with annual production, which ranges from 347 to 30,400 tons of ore for the individual years shown on the graph. Some silver may be held in galena or in distinct silver minerals, but these amounts must be minor compared with the silver associated with copper minerals. Probably most of the silver is in argentian gray copper.

In summary, the broad pattern of the zoning in this area, in which there may be irregularities and exceptions, indicates that the distribution of metals in the ores appears to change similarly northward, southward, and upward from a central zone. This central zone may be represented by the deep ores in the area at the head of Arrastra Gulch, in a zone from 1 to 2 miles south of the southern border of the ring-fault zone. In this zone, gold is an important and fairly regular constituent of the ore; silver is commonly associated with both lead and copper but not dominantly with either; lead and copper either vary together or irregularly; and gray copper is not a common constituent of the ore. North of this central zone the tenor of gold generally decreases but may be locally high or very low, silver tends to associate with either lead or copper, copper and lead may vary inversely, ratios of copper to silver and lead to silver vary inversely, and gray copper is present in the ores. The same sort of changes appear to occur to the south, and in the far southeast gold again becomes low and spotty, silver varies with copper rather than lead and is probably carried mostly in gray copper, lead and copper contents are not consistently related either directly or inversely, and gray copper is an important constituent of the ore.

VEINS OF THE CONCENTRIC SYSTEM

Fractures of the concentric system do not contain veins of economic importance. Narrow zones of iron and manganese oxides, together with stringers of quartz, are common along the walls and within some of the concentric dikes. Base-metal sulfides may also be seen in some places but only in small amounts. Some of the stronger veins in the network of dikes that cross the ridge south of Kendall Gulch have been explored by pits and short tunnels. These veins contain some galena in a gangue of quartz, carbonates, and pyrite, but there is no record of ore produced. Both the Arabian Boy dike and the Arrastra dike are accompanied by narrow veins along much of their length, but there has been no work on them, except for a few prospect pits. The narrow vein or zone of altered rock that intersects Arrastra Creek at altitude 11,700 feet trends somewhat south of west, passes through the Galicya claim, and may belong to the concentric system. Although the vein is persistent, it is apparently without economic value.

VEINS OF THE WESTERN SHEAR SYSTEM

NORTHEASTWARD-TRENDING GROUP

The northeastward-trending group of fractures is best displayed in the upper parts of Swansea and Blair Gulches and in Woodchuck Basin. Although some of the fractures here are strong and wide and greatly stained with iron oxides, only one is sufficiently mineralized to have encouraged prospecting. This one follows the northernmost of the dikes that extend across Blair Gulch and was worked by the Happy Jack mine, now abandoned. The production, if any, is not known.

NORTHWESTWARD-TRENDING GROUP

The most continuous veins of the district belong to the northwestward-trending group. They are described below in their order from southwest to northeast.

TITUSVILLE (LETTER G) VEIN

The Titusville (Letter G) vein is the longest vein in the South Silverton area. It has an average strike of about N. 71° W. and a dip of 75° NE. The structure, through most of its length, includes a compound dike, consisting of 2 or 3 adjacent sheets of andesite or latite and vein material ranging from a single filled fissure, several feet wide, to a zone of closely spaced veins as much as 100 feet wide.

The southeast end of the Titusville in Spencer Basin is a barren fault. On the western slope of Spencer Basin, the fault displaces the granite porphyry dike about 55 feet, the northeast side having moved to the southeast. The vertical movement, which may be determined nearby from offset of the top of the Eureka rhyolite, is about 35 feet, the northeast side having moved down. Northwestward over the ridge to Arrastra Basin the fault is joined by a dike, becomes mineralized, and is known in that locality as the Buckeye vein. In Arrastra Basin the vertical displacement is 80 to 100 feet. The vertical movement seems to become smaller farther to the northwest, although there are no certain means for its measurement; however, the strike-slip component increases to 350 or 400 feet, if it is assumed that segments of the Arabian Boy dike east and west of the Titusville on the south slope of Kendall Mountain were originally continuous.

Early explorations of the Titusville vein include the Buckeye mine to the southeast, in Arrastra Basin, and several pits and short tunnels to the northwest, on the south slope of Kendall Mountain. Ransome reported

(1901, p. 161) that the ore of the Buckeye consisted of "chiefly galena, with some tetrahedrite, the latter being more abundant in the upper tunnel." To the northwest of the Titusville mine, along the north side of Kendall Gulch, the vein is 3 to 10 feet wide and, judging from the poorly mineralized outcrops, appears to be relatively barren. The course of the vein changes abruptly to a more northward direction near the mine at altitude 12,504 feet, then returns to its general northwesterly trend at the crest of the ridge east of Kendall No. 2 Peak. Where it trends northward, the vein zone is unusually wide, about 100 feet, and contains at least two dikes within a swarm of quartz veins. Outcrops of some of the veins show galena and other sulfides and have been explored by trenches. The abnormal widening of the vein zone appears to be the combined result of the movement of the hanging wall southeastward relative to the footwall and the change in strike.

Mining on the Titusville vein began near the divide between Kendall Gulch and Arrastra Basin. The Titusville mine was operated from 1886 until 1893. According to Ransome (1901, p. 161) the mine—

> was developed on four levels, aggregating about 1,150 feet of drifts. The lode is about 30 feet wide. Its general dip is to the northeast at about 80°, although it is locally vertical. It consists of chalcopyrite, galena, sphalerite, and pyrite, in a gangue of quartz and rhodochrosite. Chalcopyrite is the most abundant ore mineral. The ore is generally of low grade, that containing abundant chalcopyrite running about $6 per ton. There is a richer streak, however, usually about 14 inches wide, which may run as high as $30 per ton. Some of this richer ore contains very finely crystalline galena scattered through the quartz in minute particles. Where this occurs the ore may carry 1 to 3 ounces of gold and 60 to 100 ounces of silver per ton, the value being associated with the presence of galena.

The most extensive work on the Titusville vein was done from the Silver Lake mines through deep-level crosscuts driven southward from the New York vein. Much ore was mined in the period 1904–06 both from under the southwest side of Arrastra Basin and from under Kendall Mountain to the northwest. The ore was milled with ore derived from other veins, so that there is no clear record of the quantity or tenor of ore mined solely from the Titusville vein. Both the high-level workings of the Titusville mine and the deep drifts of the Silver Lake mines were inaccessible during the 1945–46 field seasons.

Between July 1953 and May 1954, the Titusville vein at the level of the Silver Lake crosscut from the Shenandoah-Dives mine was explored under an agreement between the Shenandoah-Dives Mining Co. and the Defense Minerals Exploration Administration (DMEA 2991). The 4,177-foot drift along the Melville vein was extended southward as a crosscut to the Titusville and for about 1,130 feet northwestward and 490 feet southeastward along the vein. The work was supplemented by more than 1,200 feet of diamond drilling. The mineralized rock found by the exploration was of very low grade and work was discontinued before the exploration program originally contemplated was finished.

The Titusville dike, or dikes, ends near the crest of Kendall No. 2 Peak. A pile of gossan lies beside a prospect pit just below and to the west of the crest of the peak. Galena in the cores of many of the fragments is intimately cut by microscopic seams of anglesite or cerussite. Still farther to the northwest the vein zone is less continuous and consists of several overlapping mineralized fissures. No serious exploration was attempted on the northwest side of Kendall No .2 Peak except at the Idaho mine. The Idaho mine is now inaccessible, but according to Ransome (1901, p. 161) the ore was mostly chalcopyrite and pyrite, with pockets of galena in a quartz gangue. Such ore may be seen on the present dump, but probably much of it has been mined since Ransome's visit.

SILVER LAKE VEIN

The average strike of the Silver Lake vein is N. 57° W. and the average dip 60° NE., which is unusually low for a vein of the northwestward-trending group. The northwest end of the vein is concealed by till and timber on the south slope of the Animas Valley between Swansea and Blair Gulches. The vein is well exposed on the crest of the ridge west of Blair Gulch, but the outcrop does not become strong and continuous until the vein passes southeastward into Woodchuck Basin. Over Round Mountain and down to Silver Lake, the vein, where not covered by talus, is marked by a prominent gossan-stained zone as much as 40 feet wide. From the farthest northwest exposure nearly to Silver Lake the vein follows the footwall of an andesite or latite dike. The dike turns to the east near Silver Lake and ends, but the vein apparently continues to and beneath Silver Lake in several separate fissures (fig. 23).

The net differential movement between the walls of the Silver Lake fissure is in the same direction as those of the Titusville and other northwestward-trending fractures, the northeast side having moved down and to the southeast relative to the southwest side. Most of the movement took place before vein deposition. Burbank estimated the net amounts of displacement near the Arrastra and Arabian Boy dikes to be about 200 feet horizontally and about 100–150 feet vertically (1933a, p. 191–192). The vertical displace-

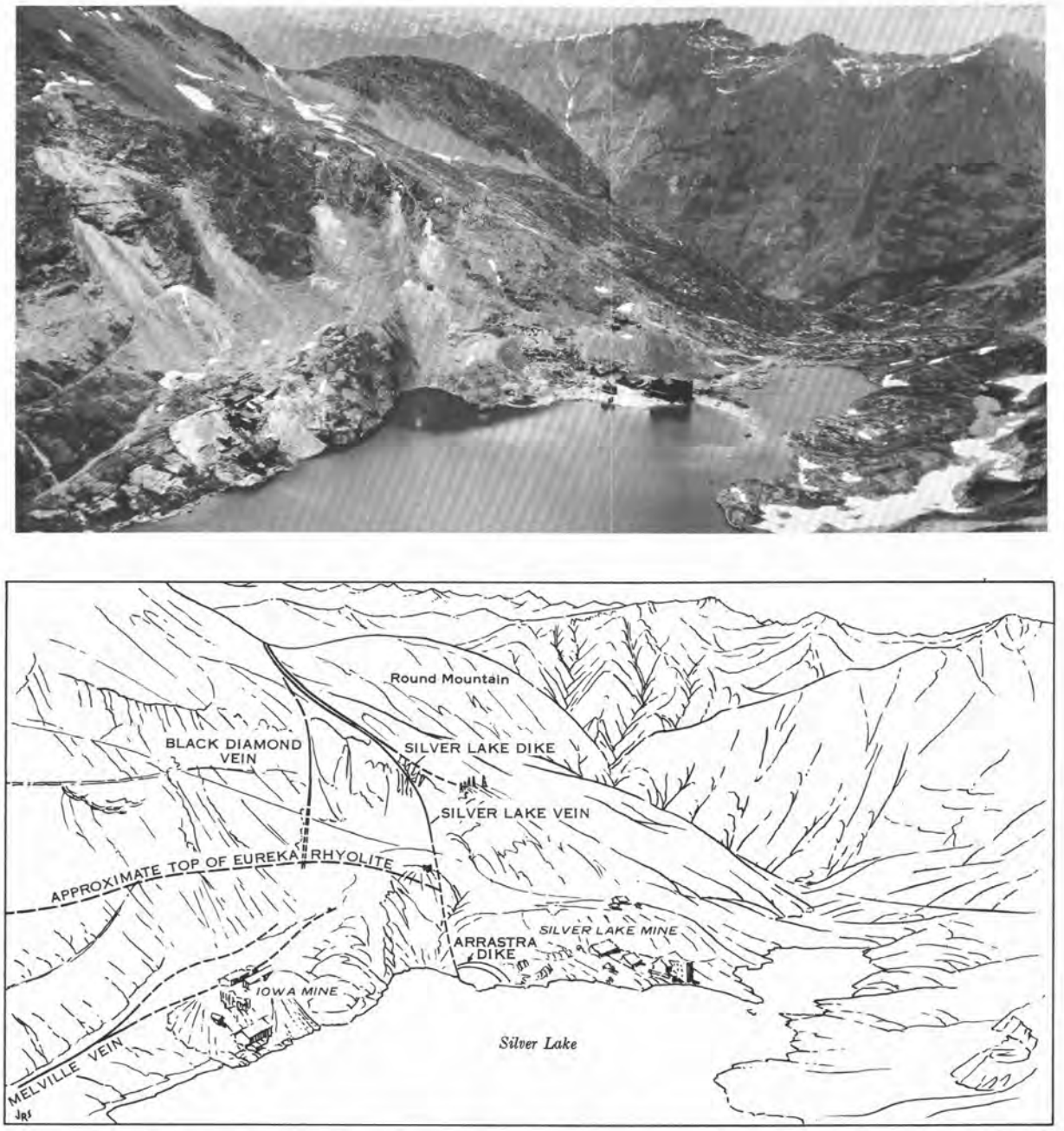

FIGURE 23.—Sketch and view northwestward across Silver Lake. Silver Lake fault, dike, and vein pass through the saddle to the left of Round Mountain.

ment where the vein crosses the ridge west of Blair Gulch is about 250 feet, but the horizontal displacement could not be measured. Some movement almost parallel with the vein took place after the main period of mineralization, as shown by gouge zones on the walls and broken vein matter. According to Ransome (1901, p. 152), the movement after deposition of the ore was, in the main, oscillatory, with little net displacement.

The more productive parts of the Silver Lake vein lie beneath Woodchuck Basin, Round Mountain, and Arrastra Basin. The Nevada mine explored the vein

beneath the ridge between Woodchuck Basin and Blair Gulch. A drift at the Unity level was run northwestward beneath the old Nevada workings, but stope maps indicate that not much ore was removed from these parts of the vein. The workings are much more extensive beneath Round Mountain. Here there are many stopes between 12,000 and 12,500 feet altitude, operated by Silver Lake mines at an early date, and, later, comparable amount of stoping at lower levels done by the Shenandoah-Dives Mining Co. via the Silver Lake crosscut.

The vein ranges in width from a few feet to 20 feet. The product has been dominantly a low-grade lead-silver ore, and the principal minerals are pyrite, galena, sphalerite, chalcopyrite, and gray copper in quartz gangue. There is very little gold in most of the ore. The upper parts of the vein contained much broken material and products of alteration.

ROYAL TIGER VEIN

The Royal Tiger vein crops out on the southeastern slopes of Arrastra Basin. It may be a continuation of the same general zone of fissures as the Silver Lake vein, but there are no means of correlating the two across Silver Lake. (See pl. 1.) The vein dips about 80° NE., which is much steeper than the general dip of the Silver Lake vein. In the lower levels of the mine the vein consists of two branches, separated by 30 or 40 feet. The branches converge upward, so that in the higher levels the lode consists of the two main veins separated only by irregular stringers of country rock (Burbank, 1933a, p. 201–202). The vein produced lead ore containing some silver and, occasionally, a little gold.

The outcrops of the Royal Tiger vein swing slightly more to the east and die out to the southeast on the ridge between Royal Tiger and Spencer Basins. A low swale continues on beyond the end of the vein on a course obliquely down the north side of Spencer Basin. The swale ends at a prevolcanism fault on the south side of a down-dropped fault block south of the Highland Mary mine. The rough alinement of the vein, the swale, and the fault suggests that where the volcanic cover is relatively thin, as in this locality, fracturing of the volcanic rocks may be controlled to some degree by old faults within the underlying Precambrian rocks.

SHENANDOAH-DIVES VEIN SYSTEM

The Shenandoah-Dives vein system is one of the major faults of the western shear system and furnished the major production of the district for many years. It may be traced from Arrastra Gulch southeastward over the high ridges and deep basins nearly to Mountaineer Creek, a distance of about 12,000 feet. Its average strike is N. 40° to 50° W. and the dip is 60° to 80° NE. Its structure is complex; several rather distinct but closely spaced veins have been mined within the zone.

The northwest end of the Shenandoah-Dives vein system is hidden by talus in Arrastra Gulch (fig. 24), but the veins of the Aspen mine, west of Arrastra Gulch, may possibly be a northwestward continuation of the system. These veins are overlapping and discontinuous, at least on the surface, and it is hardly possible that any one of them could be followed underground to the Mayflower vein of the Shenandoah-Dives mine. According to Ransome (1901, p. 163), the ores of the Aspen mine consisted of galena, sphalerite, chalcopyrite, pyrite, tetrahedrite, and a little native silver in the higher levels. The gangue is quartz with considerable amounts of green fluorite. The mine has been idle for many years, and most of the adits are caved.

That part of the vein system extending from Arrastra Gulch to Dives Basin was first explored by the Mayflower mine in Arrastra Gulch, the North Star mine on Little Giant Peak, and the Shenandoah mine in Dives Basin. These holdings were consolidated, and after 1926 the three mines were connected by extensive workings of the Shenandoah-Dives Mining Co. Three rather distinct veins have been mined along this part of the vein system (pl. 3 and pl. 1, section *A–A′*). The Mayflower vein and the North Star vein are almost parallel but en echelon. The ore shoots of the Mayflower are northwest of those in the North Star. Where the two veins overlap, the Mayflower is at a lower altitude and a short distance southwest of the North Star. The Morgan vein lies between the Mayflower and the North Star and has a steeper dip. Some of these relations are shown schematically in figure 16.

According to Ransome (1901, p. 164), the ore in the upper 200 feet of the North Star vein was largely anglesite without much silver. The ore below the zone of oxidation was principally galena, associated with increasing amounts of tetrahedrite at depth. In the lower levels galena was subordinate to highly argentiferous tetrahedrite. Mining had ceased before 1900 at about the fifth level of the North Star mine (approx alt 12,750 ft). These high parts of the vein were not explored again until the Shenandoah-Dives Mining Co. drove a raise from an altitude of about 11,220 feet directly beneath the crest of the ridge. The deep-level mining development showed that the Mayflower vein contained abundant chalcopyrite in the lower levels; the vein was mined chiefly for gold, but also for silver,

FIGURE 24.—Arrastra Gulch viewed from the north side of the Animas Valley. Shenandoah-Dives upper tram terminal, bunkhouse, and main portal are below cliffs of Burns quartz latite and Eureka rhyolite at left center. The Shenandoah-Dives vein is in the dark ravine to the left of the bunkhouse. (See also fig. 3.) Location of Aspen mine is indicated by dumps in timber at lower right. The southern boundary of the ring-fault zone crosses the ridge at the right about at timberline; the faults are marked by shallow east-west swales across the ridge.

copper, and lead (Chase, 1929). The Morgan vein was mined also chiefly for gold.

The Shenandoah-Dives vein system continues southeastward from Dives Basin, but apparently splits into several parts as it crosses the ridge on the north side of Royal Tiger Basin and finally dies out in the pre-Tertiary fault-block and landslide area near Mountaineer Creek. This part of the vein has been mined intermittently from the earliest days of the camp, and for many years was worked by the Highland Mary Mining Co. The ore here is principally galena, chalcopyrite, and pyrite, with some sphalerite, tetrahedrite, and a little free gold in a quartz and calcite gangue.

The Shenandoah-Dives vein system follows an andesite dike, called the Mayflower dike, along the surface from Arrastra Gulch southeastward up the slope to an altitude of about 12,600 feet, where the dike ends. This dike has been identified on the main Shenandoah-Dives level as far southeast as the 4500 mine coordinate, a little southeast of Little Giant Peak.

According to Burbank (1933a, p. 186) the net postdike displacements along the Shenandoah-Dives vein system are from 125 to 140 feet vertically and about the same horizontally. The vertical displacements southeast of Dives Basin are very small or nil and there are no means of estimating horizontal movements. Where they can be measured, the net displacements along the Shenandoah-Dives vein system are in the same direction as those along other northwestward-trending fractures of the western shear system, the northeast side having moved to the southeast and the hanging wall down.

The control exerted by these movements and by the dike upon fissuring and localization of ore shoots has been described in detail by Burbank (1933a, p. 185–

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191, 202–212) whose main points are summarized in the following statements: Where the vein system followed closely along a preexisting dike wall, northwest of Little Giant Peak, the various types of country rock and the manner in which they fractured in response to stress had little influence upon the structure of the vein system. Here the openings for vein material seem to have been provided by irregularities in the dike wall that formed openings during differential movements of the walls. Movement of the ore solutions appears to have been controlled by gougy impermeable slip planes that commonly pass gradually from one wall of the dike to the other when traced horizontally, and from the hanging wall to the footwall when traced upward. Fracturing along the southeastern part of the lode where there is no dike appears, on the other hand, to have been controlled more by the strength and other physical properties of the wallrocks. In brittle rocks, such as massive dense flows, the lode is dispersed along numerous fractures; in tough or plastic rocks, such as some of the volcanic breccias, the lode more commonly follows along a single fracture.

NORTHWESTWARD-TRENDING VEINS OF LITTLE GIANT BASIN

The principal northwestward-trending veins of Little Giant Basin are the Big Giant vein and Black Prince-Gold Lake vein, a few hundred feet to the northeast. These are prominent veins related in origin to the Silver Lake, Shenandoah-Dives, and other members of the northwestward-trending group, but they have never been very productive. They trend about N. 45° W. within Little Giant Basin but swerve more westward on passing down into Arrastra Basin. Much of this curvature in outcrop results from the southwestward dip of the veins, which is the opposite of the usual dip of northwestward-trending veins. The dip of the Big Giant vein is 70° to 80° SW, and that of the Black Prince-Gold Lake 55° to 80° SW. No displacement was observed along the Big Giant vein. Vertical displacement along the Black Prince-Gold Lake fissure was determined by Burbank at the top of the Eureka rhyolite near the lip of the basin to be about 175 feet, with the hanging wall having moved down. I estimate the vertical displacement near Gold Lake to be 110 feet. The vertical displacement decreases to the southeast or is distributed irregularly along many fractures, for the base of the pyroxene-quartz latite on King Solomon Mountain is at about the same altitude as it is on Little Giant Peak on the other side of the Gold Lake vein. No means were available for determining horizontal displacements.

Quartz, chalcopyrite, and hematite appear to be the chief constituents of the Big Giant vein. Some stopes were opened on the vein but the mine has not been worked since before 1900. The Black Prince vein was explored for about 1,000 feet by an adit near the small lake in the lower part of the basin, and a little ore was removed. The King Solomon vein on the east side of the basin shows galena, chalcopyrite, and pyrite at the surface and has been mined from three adits, but the amount of ore produced is not known.

The King Solomon vein forms the northeast edge of the northwestward-trending group of productive veins in the western shear system. Farther east and northeast there are a few quartz-calcite veins that carry little or no sulfides. The area between Little Giant Basin and Cunningham Gulch appears, as mentioned before, to be a zone of relatively barren veins between the productive veins of the eastern and western shear systems.

DIAGONAL GROUP

SCRANTON CITY VEIN

The Scranton City vein diverges northward from the hanging wall of the Titusville vein, approximately at the crest of Kendall Mountain. The inclusion of the Scranton City in the diagonal group is somewhat questionable, because the northern part of the fissure seems to follow an andesite dike. All other diagonal fissures in the area appear to have been opened after the period of intrusion of andesite dikes. The trend of the vein in relation to that of the Titusville and the lack of evidence of strong differential movements indicate, however, that the Scranton City vein is primarily a tension fracture that was opened by shear movements along the Titusville vein; hence, it is more properly included in the diagonal group.

Where seen in the higher workings, altitude 12,393, the lode consists of 2 or 3 veins within a mineralized zone about 30 feet wide that contains quartz, chalcopyrite, pyrite, and minor amounts of sphalerite. The veins strike N. 15° W. and dip about 77° E. The vein zone is covered by talus through much of its course, but presumably continues northward along the west side of Swansea Gulch and becomes dispersed in the ring-fault zone near the Lackawanna mine.

SILVER LAKE FOOTWALL VEINS

The veins that trend somewhat west of north in the footwall of the Silver Lake vein in Woodchuck and Arrastra Basins have been much more productive than the Silver Lake vein itself, and they have probably accounted for about one-fourth of the total value of ores mined in the South Silverton area. Many of them are prominent veins that were discovered and worked

during an early stage in the mining history of the region, but the large-scale operations necessary for profitable mining of the low-grade ore were not started until the erection of the first Silver Lake mill by E. G. Stoiber about 1890. The many claims were gradually consolidated by Mr. Stoiber and his wife and were sold in 1901 to the American Smelting and Refining Co., under whose ownership the Silver Lake mines continued to be leading producers in the area for about 15 years. The Iowa-Tiger group of claims, adjoining the Silver Lake group, also produced large tonnages of ore until about 1920. Development of the Silver Lake footwall veins has been carried on since 1941 at deeper levels through the Silver Lake crosscut from the Shenandoah-Dives mine, under a leasing agreement with the American Smelting and Refining Co.

The arrangement of the Silver Lake footwall veins may be seen in plate 1 and more clearly in figure 12. The relations change with depth, so that some veins, which are separate at the surface and in the higher levels, join at lower levels. At the level of the Silver Lake crosscut, for example, the Iowa and East Iowa veins are apparently one vein; similarly, the Royal, Black Diamond, and Melville veins here cannot be differentiated. Another vein that is included in the Silver Lake footwall veins but that does not crop out was found at the Silver Lake crosscut between the Silver Lake vein and the Stelzner vein, 3,490 feet from the turnoff from the Shenandoah-Dives main level.

FIGURE 25.—View of south face of Little Giant Peak. Light-colored area in notch below the peak is the oxidized surface of the Shenandoah-Dives vein system. Diagonal fractures in the footwall of the Shenandoah-Dives fault traverse the cliffs in the foreground.

DIAGONAL VEINS OF LITTLE GIANT AND DIVES BASINS

Several veins diverge southward from the Big Giant and Black Prince-Gold Lake veins in Little Giant Basin. They originated in the same way as the diagonal veins south of the Silver Lake vein, but they are much smaller and almost barren. Only the Mountain Quail, North Star Extension, and Potomac-Cremorne veins have been explored.

Fractures of the diagonal group in the footwall of the Shenandoah-Dives vein system show prominently in the cliffs at the head of Dives Basin south of Little Giant Peak (fig. 25). They do not appear to be mineralized and there are no mines on them.

VEINS OF THE EASTERN SHEAR SYSTEM

Most veins of the eastern shear system lie east of Cunningham Gulch, beyond the area mapped in this study, and were not examined except at the Pride of the West and Green Mountain mines. The relations of the many veins of this area to the regional structure are therefore uncertain. The Green Mountain and Little Nation veins are included in the northwestward-trending group of the eastern shear system, and the Pride of the West vein zone is tentatively included in the radial group. The Green Mountain mine was visited briefly but not mapped. Excellent maps and a discussion of the ore deposits and local geologic setting of this mine have been prepared by John C. Hagen.

LITTLE NATION VEIN

The Little Nation, or Royal Charter, mine is one-half mile southwest of Howardsville and 700 feet above the Animas River. This mine is one of the few that have been active in the ring-fault zone, on the southern border of the subsided block, and has a recorded production of about 12,300 tons of lead-silver ore. The workings follow several discontinuous overlapping veins that trend about N. 50° W. (pl. 4). The veins have been faulted a few inches by northeastward-trending fractures, probably during postmineralization movement within the ring-fault zone.

PRIDE OF THE WEST VEIN

The Pride of the West mine is just beyond the east edge of the area of the topographic map, on the east side of Cunningham Gulch. It was mapped with the assistance of George Sowers in 1945 and revisited briefly in 1946. Since then, a very thorough study of the Pride of the West vein and the Osceola vein, which is an adjoining property to the north, has been made by Douglas Cook.

The workings are extensive and more complex than most mines in the district, owing to the irregularity of the vein zone. The veins trend roughly north but curve somewhat convexly to the east (pl. 5). The dips are generally 50° to 70° W. Ore is localized along veins within a fracture zone as much as 100 feet wide. Normal faulting apparently took place along this fracture zone, and as a result tension fissures opened between individual faults. The tension fissures generally dip at steeper angles than the faults themselves and were favorable sites for subsequent mineral deposition. The faults were also mineralized, locally, particularly in the southern part of the mine. Some movement along the faults continued during and after mineral deposition.

Sections *A–A′* to *I–I′* across the mine workings (pl. 6) show, more clearly than the plan map, the relation of ore shoots to the faults. Section *C–C′* is typical and shows relatively flat faults and gouge seams with ore-bearing veins between the faults.

The steeper veins are generally wider, more continuous, and richer, especially in the northern part of the mine. (Note the Lane vein on plate 6, sections *A–A′* and *B–B′*.) The veins split and it is difficult to trace them in the middle part of the mine (between sections *D–D′* and *G–G′*). This area is transitional between the southern part of the mine, where the faults are themselves mineralized, and the northern part, where only the steep fractures between the faults are strongly mineralized.

Gold is generally fairly low and erratic in occurrence. Occasionally some wire silver is found, and the silver content is generally high wherever gray copper is present. Galena, sphalerite, chalcopyrite, and pyrite are the chief sulfide minerals, and quartz and calcite are the principal gangue minerals. Banding, cross-cutting veinlets, and breccia cemented by vein matter indicate that ore deposition took place in several stages and was accompanied by movement of the vein walls. In many places the veins have no true walls, but rather a false hanging wall or footwall that is only a thin slab of barren rock which conceals another vein on the other side. Because of the discontinuity and splitting habit of the veins, the operation of the mine requires attentive supervision.

OXIDATION OF VEIN MINERALS

Sulfide minerals within the veins of the South Silverton area are very little oxidized at altitudes below the upper limit of glaciation; galena, sphalerite, and chalcopyrite may be seen at the surface with only a film of discoloration. Above the upper cutting limit of the glaciers, however, the veins are commonly stained and oxidized to depths of 100 to 200 feet. The upper cutting limit of the ice is probably at or a little above the top of the highest line of cliffs along the sides of the valleys. This line drops in altitude from the heads of the cirques toward the mouths of the valleys. Above this line, the oxidized material produced by weathering in preglacial or interglacial periods has not been removed. Anglesite was abundant in the highest levels (17th and 19th) of the Shenandoah-Dives mine, and the soft decomposed vein matter required special techniques for mining and milling. Anglesite is also abundant on dumps along the Titusville vein at an altitude of about 13,000 feet on the west side of Kendall No. 2 Peak.

INFLUENCE OF WALLROCK

Additional mapping bears out Burbank's (1933a, p. 204-211) conclusion that, except where veins follow preexisting dike-filled fractures, the vein material is distributed along more numerous and smaller fractures in brittle rocks, such as massive flows, than in tougher more plastic volcanic breccia. Contrary to the prevalent interpretation of Burbank's remarks, however, the Eureka rhyolite is by no means everywhere a less favorable wallrock than the Burns quartz latite, for both formations contain both tough and brittle rocks. In any event, if a vein follows a dike, the dike wall exerts more control over the fractures filled by the vein material than does the physical character of the wallrock.

Tuff-breccia of the San Juan tuff has proved to be a favorable wallrock for the Shenandoah-Dives vein system at the Highland Mary mine. (See pl. 3.) The vein system is also strong and continuous at this locality in the Precambrian schist and gneiss, which it cuts at a high angle to the foliation. Tuff-breccia of the San Juan is absent in the northern part of the mine. Here the top of the schist is broken and rubbly, and the veins of the system are poor in the schist-rhyolite contact zone.

REPLACEMENT DEPOSITS

Two deposits of the replacement type were studied briefly. One is at the March crosscut of the Osceola mine, just north of the Pride of the West mine, and the other is at the Marcella mine on the western edge

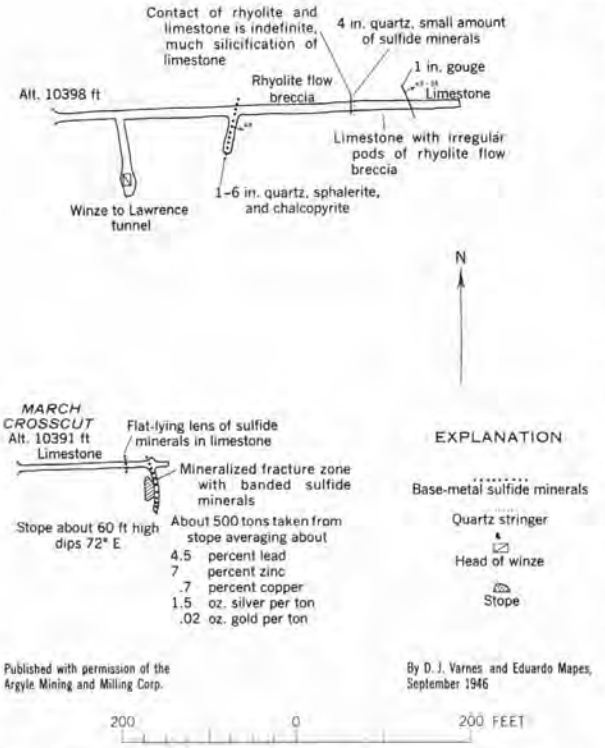

FIGURE 26.—Geologic sketch map of the upper levels of the Osceola mine.

of the map. In both deposits the ore minerals occur in metamorphosed Leadville limestone and Ouray limestone.

The replacement ore bodies of the Osceola mine (fig. 26) occur where the Pride of the West vein zone penetrates large blocks of limestone. Whether these areas of limestone are blocks incorporated in Eureka rhyolite or are in place could not be determined. The ore consists of sphalerite, galena, pyrite, and chalcopyrite in a gangue of quartz and metamorphosed limestone. Much of the ore is peculiarly banded; layers of sulfides a millimeter or two thick, alternate with thin bands of finely crystalline quartz. The ore body in the March crosscut was irregular but apparently lens-shaped, and it followed fractures that trend northward to N. 20° W. and dip steeply eastward. The ore is cut off abruptly against rolls of unmineralized but highly altered country rock.

The Marcella mine (fig. 27) is at the contact between the quartz monzonite and the Leadville and Ouray limestones near the Animas River, south of Silverton. The portal is in quartz monzonite, but most of the winding tunnel is in limestone, marble, and contact-metamorphic rocks. The mineral assemblage present here is of a type characteristic of higher temperatures than at the Osceola deposit, and apparently was formed through pneumatolytic action along the contact between the quartz monzonite stock and the limestone. Small amounts of galena and sphalerite have been found in the metamorphic zone but not in sufficient quantity to warrant mining. The limestone near the portal has been converted to an aggregate of granular calcite, tremolite, monticellite, diopside, idocrase, garnet, and a mineral tentatively identified as thaumasite. Farther underground, the tunnel veers away from the contact zone and passes through marble and relatively unaltered limestone. Near its end the tunnel approaches the contact again and passes through zones that may indicate progressively higher degrees of metamorphism. The first zone, a few inches wide, consists of tremolite and wollastonite. This is followed by a zone a few inches to a few feet wide, of massive garnet. The sulfides occur sparingly in these two zones. The third zone, which was never completely penetrated, consists of black hornfels composed of fine-grained granular quartz with sericite and magnetite. The mine was examined with an ultraviolet lamp for the tungsten mineral scheelite but none was found. The black hornfels crops out on the hillside above the mine. Between the hornfels and the limestone there are a few small bodies of massive garnet and magnetite.

DISSEMINATED DEPOSITS

The rocks within the ring-fault zone bounding the area of subsidence on the south and west are highly broken, stained, and altered. They form conspicuous red and yellow outcrops along Mineral Creek northwest of Silverton and along the south side of the Animas Valley south and east of Silverton. Along many parts of the ring-fault zone, the Burns quartz latite is almost completely altered to an aggregate of quartz, sericite, chlorite, and clay minerals. The staining is due largely to the decomposition of finely disseminated pyrite. The amount of pyrite and the degree of alteration are greatest where the ring-fault zone is intersected by the stronger northwestward-trending veins.

Mining within the fault zone has been limited to the northwestward-trending veins, such as the Little Nation and Aspen lodes. Very little attention has been given to the possibility of large low-grade deposits within the broken rock of the ring-fault zone. A few grab samples of altered rock assayed from a trace to 0.01 ounce gold and 0.1 to 0.7 ounce silver per ton. These few analyses indicate only that the stained rocks are somewhat mineralized. It is possible, however, that large-scale sampling might delimit areas of lesser and greater mineralization and that some of the areas are worthy of more detailed study.

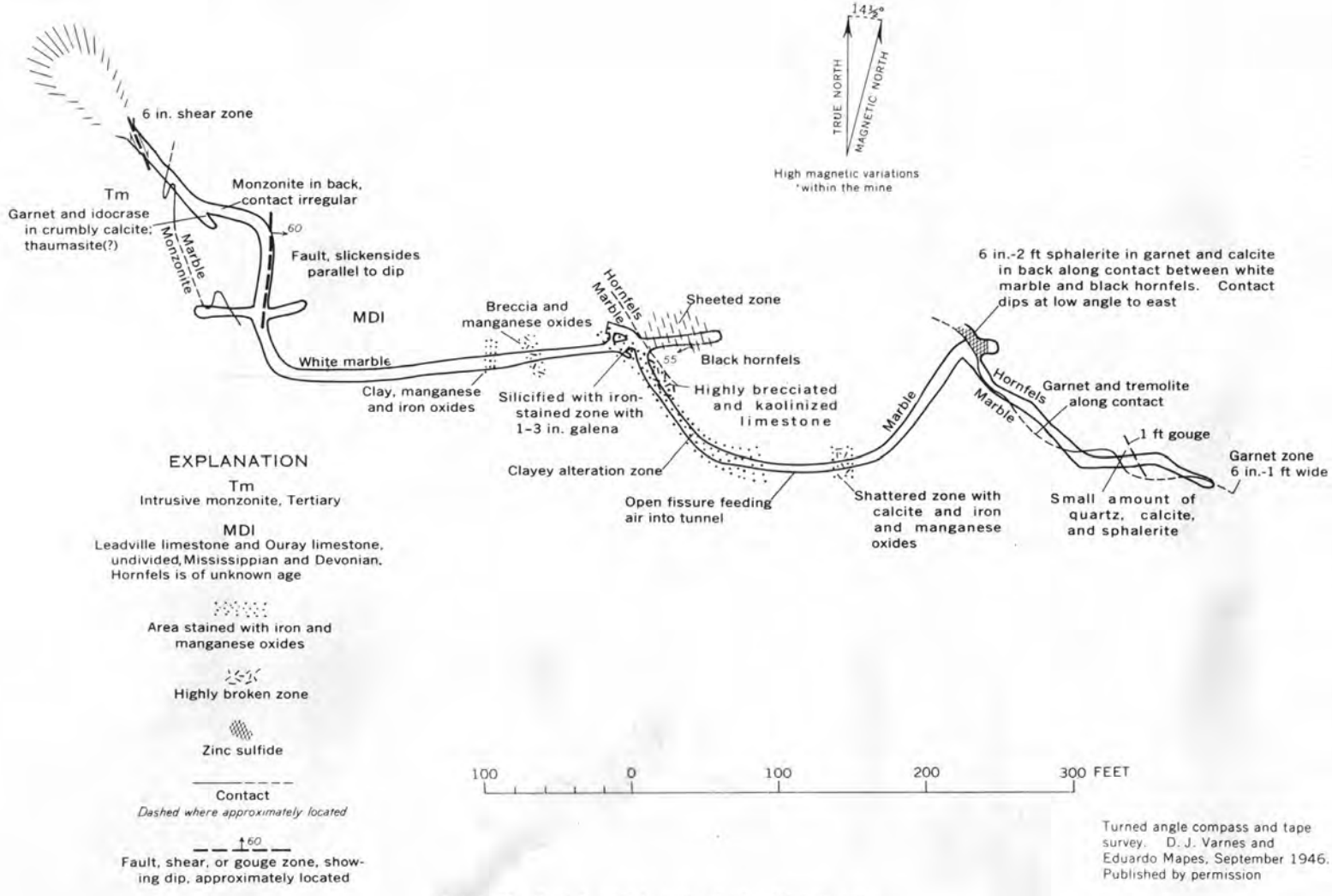

FIGURE 27.—Geologic sketch map of the Marcella mine.

SUGGESTIONS FOR FUTURE PROSPECTING

The main veins in the region to the southeast of Silverton are generally well exposed and have been thoroughly prospected. Future mining appears to depend upon finding new veins that are not exposed, such as those that are "blind," in that they do not extend to the surface, or those whose outcrops are concealed by talus, glacial debris, or by soil and heavy timber.

The possibility of finding extremely rich silver ore is remote, for if the interpretation of zoning is correct, this ore occurred predominantly at the higher altitudes, where it was easily recognized and exploited at an early date. Moreover, the possibility of finding large additional reserves of low-grade ores of gold, silver, and base metals does not seem encouraging. Most future explorations, based on present information, will be highly speculative, or "long-shot" gambles; but there are several types of deposits or areas that might be considered for further study, if this is kept in mind.

1. At the time the mine was visited, there appeared to be a possibility of finding more ore at the Pride of the West mine by exploratory drilling for veins along steep tension fractures between the less steeply dipping faults. This type of prospecting offers more promise of success in the northern than in the southern part of the mine. In the southern part, the faults themselves are mineralized, and steep ore-bearing tension fractures are apparently less common.
2. The Shenandoah-Dives vein system to the northwest of the present workings should be considered; this area lies under talus on the eastern side of Arrastra Gulch. Although the Mayflower vein of the Shenandoah-Dives system is known to continue to the northwest for at least 2,000 feet from the main portal, this vein might be regarded as but one member of a family of veins having a steplike arrangement. The Mayflower vein is on the footwall side of the North Star vein; it is being mined to the northwest of the North Star vein and at a lower altitude. Thus, in tracing the vein system northwestward, it would be most reasonable to explore for another member of the family of veins on the footwall side of the Mayflower vein, as projected at a lower altitude.
3. Veins along tension fractures in the footwall of the Silver Lake vein system are spaced at approximately equal intervals. Deep drilling into the footwall of the Silver Lake vein, across a zone indicated to be most favorable by the spacing of the known fractures, might find another member of this group of rich veins. These diagonal veins may not crop out at the surface. Apparently no exploration, other than on the surface, has been made of the area west of the New York vein, and the New York vein itself has not, at the time of mapping, been explored at the low altitude of the main level crosscut between the Shenandoah-Dives and Silver Lake mines.
4. Some means might be considered for estimating the potential of the northwestern part of the Titusville vein, northwest of the parts mined in the past, and particularly in the vicinity of Kendall No. 2 Peak. Some sulfides are visible at the surface here and there in this area, but apparently there has been little serious exploration.

The structural analysis presented in chapter B does not directly furnish any new clues for finding ore. It does, however, offer some rational basis for placing known veins, and others that may be found, into a coherent structural pattern. The structural analysis should aid in seeking the continuation of a vein underground that has pinched out or that has been terminated by a cross fault.

With reference to pinching out, individual ore shoots in a shear zone may be expected to lay somewhat askew to the general trend of the shear zone as shown in figure 13. They may be close together, even overlapping, or almost parallel with the trend of the shear zone. In any event, when one fracture is followed to its end, the most reasonable direction to strike out in search of the next is determined by the direction of relative movement in the shear zone. If movement was right lateral, as it was in all the major northwestward-trending shear zones, exploration should be to the left, and perhaps ahead, of the fracture that was followed to its end in order to find the next. If movement was left lateral, exploration should be to the right.

The same general rule holds for cross faults in a system of conjugate shears. In exploring along a shear zone having right-lateral displacement that is cut off by another fault oriented at a high angle, 45° to 90°, to the shear zone, one should look for its continuation to the left beyond the cross fault. The rule is reversed if a fault with left-lateral movement is being followed. Owing to local irregularities in the regional pattern or possibly to rotational movements of the fault blocks these rules may not hold invariably, but in cases where other data to guide exploration are lacking they should serve as fairly reliable guides. It is important to recognize what part the local structure plays in the regional fault pattern in order to infer the directions of right- and left-lateral shearing in the absence of direct evidence. The trend of a fault may not everywhere be a reliable indicator of the direction of fault-

ing along it. Some faults, particularly in the eastern shear system, curve through great arcs, but nevertheless preserve their direction of relative movement.

USE OF THE CLAIM MAP

Compilation of the claim map (pl. 7) was undertaken as an adjunct of the geologic mapping in the belief that such a map, on a topographic base, would be useful to the mining community. The adjustment of U.S. Land Office plats to the topographic base proved to be difficult. Few mineral locating monuments and claim corners could be identified positively in the field, although most of the area was traversed on foot and a constant watch kept. In general, the claim map was constructed by identifying features such as portals, shafts, and stream courses that appeared on both the topographic sheet and the plate of a group of claims tied to a particular mineral monument. These features were superposed and then the claim boundaries were transferred to the topographic base. This process was repeated for other groups of claims referenced to other mineral monuments. In some areas large discrepancies between plats and base map had to be distributed gradually between distant tie points. The map is therefore not to be regarded as being of engineering accuracy or as having any legal status, but simply as a guide to the approximate locations of claims relative to their topographic and geologic setting.

During this compilation, I had access to detailed claim maps in the files of the Shenandoah-Dives Mining Company and the Highland Mary mines, and was aided by continued advice from Mr. Joe Vota, then County Engineer.

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INDEX

A

Page

Abstract 1
Acknowledgments 4–5
Analyses, Burns quartz latite 14
  dike rocks 14
  Eureka rhyolite 10
  granite porphyry 16
  pyroxine-quartz latite 15
  quartz monzonite 16
Andesite and latite dikes, Tertiary, distribution 17
  lithologic character 16, 17
  See also Dikes *and particular dike.*
Arabian Boy andesite dike 24, 28, 36, 41
Arrastra andesite dike 24, 29, 36, 41
Aspen vein 36, 37, 49

B

Bibliography 4, 52–53
Big Giant vein 26, 33, 36, 46
Black Diamond vein 28, 36, 47
Black Prince-Gold Lake vein system 26, 33, 36, 46
Brachiopods 8
Buckeye vein. *See* Titusville vein.
Burbank, W. S., quoted 9, 23, 28–29, 34, 37
Burns quartz latite, distribution 10
  lithologic character 13–14

C

Calderas. *See* Silverton caldera.
Camp Bird vein 30
Canyon erosion cycle 6
Cerro glacial stage 6
Claims map, use of 52
"Compressed-wedge" hypothesis 27
Concentric system 23, 24–26, 36, 41
Contact metamorphic minerals, Marcella mine 49
Cross, C. W., and others, quoted 9, 16–17, 18

D

Dikes, andesite 24, 28, 29
  concentric systems 24, 25
  eastern shear system 30
  granite porphyry 16–18, 30, 33
  spiral 30
  western shear system 26, 27
Disseminated deposits 49
Dolores formation 5
Durango glacial stage 6

E

East Iowa vein 29, 47
Eastern shear system, approximately radial group 31–33, 36
  eastern arcuate (epicycloidal) group 30–31, 36
  general discussion 29–30
  northwestward-trending (hypocycloidal) group 31, 36
Elbert formation, general discussion 8
  mineralization in 8
Entrada sandstone 5
Eureka rhyolite, Arrastra Basin breccia assigned to 9–10
  distribution 10, 13
  lithologic character 10, 11–13

F

Page

Faults, normal 21–22, 23, 26
  reverse 33–35
Fieldwork 4
Florida erosion surface 6
Fracturing in area, concentric system 23, 24–26, 36
  eastern shear system 29–33
  general discussion 23–24, 51–52
  western shear system 26–29
  See also Ring-fault zone; Veins; *and particular system and structural feature.*

G

Galena Mountain, veins on 31
Geography of area 2–3
Glacial cirques 2
Glacial till 16, 19
Grabens. *See* Silverton caldera.
Granite porphyry, Tertiary, distribution 17–18, 30
  lithologic character 16, 18
Granite porphyry dikes. *See* Dikes *and particular dike.*
Green Mountain vein 30, 31, 35, 36, 37, 39

H

Happy Jack mine 41
Hermosa formation 6
Highland Mary mine 35, 36, 37, 39, 48
Hinsdale formation 6
Historical geology 5–6

I

Idaho vein 33
Ignacio quartzite, general description 8
  See also Paleozoic rocks.
Introduction 1–5
Intrusive rocks, Tertiary, general discussion 15–16
Investigation, previous 3–4, 21, 29
  purpose 4
Iowa vein 28, 29, 35, 36, 40, 47
Irving greenstone 5, 6

J

Joints in Precambrian rocks 20

K

King Solomon vein 46

L

Lackawanna mine 46
Latite dikes. *See* Andesite and latite dikes.
Leadville Limestone, general discussion 5, 8, 20, 21
  mineralization in 8
Little Nation vein 31, 38, 47, 49
Location of area 1–2
Lodes. *See* Veins.

M

Magnolia dike 26
Marcella mine 8, 48–49
Mayflower dike 45
Mayflower-Shenandoah-Dives vein system. *See* Shenandoah-Dives vein system.

Page

Melville vein 28, 29, 36, 47
Mesozoic rocks, depositional history 5–6
  structural features in 21
Metals, relations among, Aspen mine 38
  Highland Mary mine 40
  Little Nation mine 39
  Shenandoah-Dives mine 40
Mineralogy. *See* Veins, mineralogy and zoning *and particular vein.*
Mining, history of 35–36
Molas formation 5
Montana vein 36
Monzonite. *See* Quartz monzonite.
Morgan vein 33, 39, 44, 45
Morrison formation 5
Mountain Quail vein 28, 36, 47

N

Needle Mountains group 5, 6, 7
Nevada mine 43, 44
New York vein 28, 29, 36, 51
Norms and modes. *See* Analyses.
North Star Extension vein 28, 36, 44, 47

O

Ore deposits. *See* Veins; Replacement deposits; Disseminated deposits.
Ore shoots, localization of 33–34
Ores, silver-to-gold ratio 38
Ouray limestone, general discussion 8, 21
  mineralization in 8
Osceola mine 8, 48, 49

P

Paleozoic rocks, depositional history 5
  structural features in 20–21
Picayune quartz latite 10
Potomac-Cremorne vein 28, 36, 47
Potosi volcanic series 6
Precambrian rocks, depositional history 5
  distribution 7
  lithologic character 7
  stratigraphic relationships 5, 7–8
  structural features in 19–20, 30–31
Pride of the West vein, general discussion of 48
  mineralogy of 37, 39, 48
  production from 35
  prospecting in 51
  structure 31–33, 36
Production from mines 35–36
Prospecting, suggestions for 51–52
Pyroxine-quartz latite, distribution 10, 14–15
  lithologic character 14, 15

Q

Quartz monzonite, distribution 16
  physical tests of 17
Quaternary deposits, depositional history 6
  general discussion 19

USGS-00097
Page 61 of 64

R

Page

Ransome, F. L., quoted 42
Replacement deposits 48–49
Rhyolite dike 19
Ring-fault zone 21–22, 23, 36, 49
Rock glaciers 19
Royal Charter mine. *See* Little Nation vein.
Royal vein 28, 36, 47
Royal Tiger vein. *See* Silver Lake-Royal Tiger vein system.

S

San Juan peneplain 6
San Juan tuff, erosion of 10
general discussion 9-10
Scranton City vein 36, 37, 46
Shear fractures 23, 26–33
Shenandoah-Dives vein system, general discussion 44–46
mineralogy of 37, 39, 40
production from 35
prospecting in 51
structure 26, 28, 33, 36
Silver Lake-Royal Tiger vein system, general discussion 42-44, 46–47
mineralogy 37, 39
Silver Lake-Royal Tiger vein system—Con. Page
production from 35
prospecting in 51
structure of 26, 28, 34, 36
Silverton caldera 6, 21–23
Silverton volcanic series, general discussion 10, 21–23
Stelzner vein 28, 29, 36
Stocks, quartz monzonite 16–17
Structural geology, general discussion 19
Paleozoic and Mesozoic structures 20–21
Precambrian structures 19–20
Tertiary structures 21–35

T

Talus. *See* Quaternary deposits.
Telluride conglomerate, general discussion 9
Telluride erosion surface 5, 6
Tension fractures 23, 25, 30
Tertiary rocks, depositional history 5–6
structural features in 21–35
Titusville (Letter G) vein, general discussion 41–42
mineralogy of 37, 48
prospecting in 51
structure of 26, 27, 28, 33, 36
Transportation in area 2–3
Trilby mine 35

Page

Tuff. *See discussion under* San Juan tuff; Eureka formation; Burns quartz latite.

V

Veins, areal distribution 36
concentric system 41
eastern shear system 47–48
mineralogy and zoning 36–41
oxidation of minerals 48
wallrock influence on 48
western shear system 41–47
See also particular vein.
Veta Madre veins 31

W

Western shear system, diagonal group 28–29, 36, 46–47
northeastward-trending group 27–28, 41
northwestward-trending group 26–27, 36, 41–46
Wisconsin glacial stage 6

Z

Zoning. *See* Veins, mineralogy and zoning.

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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PROFESSIONAL PAPER 378-A
PLATE 2

MAP SHOWING RELATIONSHIP OF THE PRINCIPAL WORKINGS OF THE LARGER MINES IN THE SILVERTON MINING AREA, COLORADO

SCALE 1:12 000

1000 0 1000 2000 3000 4000 5000 6000 FEET

CONTOUR INTERVAL 200 FEET
DATUM IS MEAN SEA LEVEL

Base from U. S. Geological Survey
advance sheet, Silverton and vicinity,
San Juan Co., Colorado, 1931

Prepared by D. J. Varnes
from company mine maps
and field notes, 1946

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—10409

EXPLANATION

QUATERNARY

Pleistocene and Recent

- Qal — Alluvium
- Qt — Talus and rock glaciers
- Qls — Landslide deposits
- Qm — Glacial till

UNCONFORMITY

Dikes, contacts, faults and veins are dashed where approximately located, dotted where concealed

- Mineralized vein or fault
- Fissure having altered or stained walls

Where a vein is coincident with a fault, only the vein is shown; half arrows indicate relative horizontal movement on fault; short cross indicates direction of dip; D, downthrown side of fault; U, upthrown side; figure indicates amount of throw; short cross line and figure 90 indicates vertical vein

- Andesite and latite dike — *Light-green to dark-grayish-green fine-grained andesite and latite with small phenocrysts of gray feldspar, hornblende, biotite, and, more rarely, augite*
- Granite porphyry — *Dikes and irregular masses of light-green granite porphyry having abundant orthoclase and quartz phenocrysts in a very finely granular groundmass of orthoclase and quartz*
- Rhyolite — *A single white very fine grained flow-banded dike just south of Howardsville*
- Tm — Quartz monzonite — *Stocks and smaller bodies along the ring-fault zone and south of Silverton*

TERTIARY

Miocene

Silverton volcanic series

- Tsb — Pyroxene-quartz latite — *Dense massive flows that weather light brown; groundmass grayish or greenish purple with sparse small feldspar and pyroxene phenocrysts; abundant small crystals of magnetite and clots of chlorite; present only on Little Giant and King Solomon Peaks*

Burns quartz latite

- Tsbu — Upper tuff member — *Gray to light-lavender latitic platy tuff; contains one or two dense fine-grained limy beds 3 inches to 1 foot thick*
- Tsbm — Middle flow member — *Massive flows with white or light-green feldspar phenocrysts in finely crystalline dark-purplish-gray to light-green groundmass; thinly bedded gray fluidal facies contains prominent feldspar and bronze-color biotite phenocrysts; some interbedded green latite breccias*
- Tsbl — Lower tuff-breccia member — *Light-green breccia composed of subangular to rounded fragments of green latite containing large white or pinkish feldspar phenocrysts; fragments imbedded in matrix of light-green tuff*

Tsb — Burns quartz latite undivided

UNCONFORMITY

- Tse — Eureka rhyolite — *Mostly gray or pinkish-gray rhyolite and rhyolitic flow breccia; thin-bedded tuff at the top in many places; lower part consists largely of tuff-breccia derived from erosion of San Juan tuff together with dark andesitic flows and some irregular bodies of rhyolite that may be intrusive*

UNCONFORMITY

Miocene(?)

- Tsi — San Juan tuff — *A tuff-breccia composed largely of andesitic and latitic fragments. In Spencer Basin the lower part of the formation consists of a conglomerate containing some granitic cobbles in addition to volcanic rocks*

UNCONFORMITY

PENNSYLVANIAN

- IPh — Hermosa formation — *A few feet of green arkosic sandstone, exposed on the spur between Deer Park and Kendall Gulch, tentatively assigned to the Hermosa formation*

UNCONFORMITY

DEVONIAN AND MISSISSIPPIAN

- MDl — Leadville limestone and Ouray limestone undivided — *Massive to well-bedded blue-gray compact limestone; lower beds commonly pinkish; present along the east side of the Animas Canyon below Silverton and as blocks included in the Eureka rhyolite in Cunningham Gulch*

DEVONIAN

Upper Devonian

- De — Elbert formation — *Thin-bedded yellow, green, red, and purple calcareous shales and limestone. Best exposure at the mouth of Kendall Gulch*

UNCONFORMITY

CAMBRIAN

Upper Cambrian

- €i — Ignacio quartzite — *Well-bedded dense white and pink quartzite with thin partings of red and yellow shale; basal conglomerate composed of quartzite cobbles*

UNCONFORMITY

PRECAMBRIAN

- pCgs — Gneiss and hornblende-biotite schist — *Strongly foliated with a few diabase bodies injected along the planes of foliation. In the extreme southwest corner of the area the schist has been cut and assimilated by irregular bodies of younger Precambrian granite*

Contact

Fault, showing dip and relative movement — *Half arrows show direction of relative horizontal movement; short arrow shows direction of dip; U, upthrown side, D, downthrown side; figure indicates amount of throw in feet, short cross line and figure 90 indicate vertical fault*

Strike and dip of beds

Strike of vertical beds

Strike and dip of foliation showing plunge of lineation

Strike of vertical foliation

Shaft

Portal of tunnel or adit

Small prospect pit

Note: Most adits and shafts are inaccessible

APPROXIMATE MEAN DECLINATION, 1946

USGS-00097
Page 63 of 64

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PROFESSIONAL PAPER 378-A
PLATE 7

MINING CLAIMS IN ORDER OF PATENT NUMBER

Numbers in parentheses identify individual claims in a group that has a single patent number

Mineral Survey No.	Name	Reference block
41	PRIDE OF THE WEST	15
42	AQUILLA	15
46A	HIGHLAND MARY	22
46B	HIGHLAND MARY MILLSITE	22
47	ROBERT BRUCE	21
48	ROYAL TIGER	20
53	WM. N. NICHOLS	22
85	OSCEOLA	15
95	ORIENTAL	15
96	SEYMOUR	19
100	FLATBROKE	15
127	LITTLE FANNY	15
128	PHILADELPHIA	15
130	TRAIL	15
154A	REGULATOR	15
154B	REGULATOR MILLSITE	15
155	BOWERY	18
169A	LITTLE NATION	7
169B	LITTLE NATION MILLSITE	2
196A	NUMBER 1	22
196B	NUMBER 1 MILLSITE	28
199	ASPEN	12
219A, 677A	ASTOR	15
219B, 677B	ASTOR MILLSITE	15
220A, 678A	RICHMOND	15
220B, 678B	RICHMOND MILLSITE	15
222A	NUMBER 3	22
222B	NUMBER 3 MILLSITE	28
230	GREEN MOUNTAIN NO. 2	15
232	BUCKEYE	26
238	EMMA	19
245A	HIGHLAND MARY EXTENSION	22
245B	HIGHLAND MARY EXTENSION MILLSITE	22
249	LA PLATA	15
250	LOOKOUT	28
251	MOUNTAINEER	21
254	PRIDE OF THE WEST EXTENSION	15
272	TERRIBLE	20
274	SHENANDOAH	21
280	BEAR	19
297	NORTH STAR	21
311	YELLOW JACKET	21
380	JOHN LEE	8
381	SAVANNAH	15
403	TITUSVILLE	19
404	POMPEII	18
409	KING SOLOMON	13
411	CHLORIDE	5
421	PROSPECTOR	5
423	MAC GREGOR	12
445	PATHFINDER	5
447	SUSQUEHANNA	12
449	MAMMOTH	12
456	DIVES	21
457	POTOMAC	14
480	IOWA	20
497	QUEEN	21
519	SHENANDOAH NO. 3	21
556	C. B. COBB	2
557	GREEN MOUNTAIN	22
561A	DIAMOND L.	20
561B	MILLSITE	2
562A	KEYSTONE	2
562B	KEYSTONE MILLSITE	2
563A	WINNEMUCCA	7
563B	WINNEMUCCA MILLSITE	2
601	CLEMMONS PLACER	10
646	KING WILLIAM	15
647B	MILLSITE	16
648B	MILLSITE	16
649B	MILLSITE	16
652	MELLVILLE MILLSITE	9
653	VALLEY FORGE	5
654	RUBY NO. 1 PLACER	3
655	RUBY NO. 2 PLACER	3
681	SILVER STAR	5
693B	CUMBERLAND MILLSITE	23
711	ECLIPSE J.	21
719	DAGENFELLS	15
753	LEGAL TENDER	5
768	NORTH STAR PLACER	5
769	ROYAL TIGER NO. 1	20
797A	KATY	7
797B	KATY MILLSITE	7
827	CREMORNE	21
828	GENERAL GARFIELD	14
841	BLAIR PLACER	3
899	BELLE CONKLIN	16
902	LITTLE GIANT	13
903	BEISER PLACER	9
904A	EZRA R.	12
904B	EZRA R. MILLSITE	13
905A	PEACOCK	12
905B	PEACOCK MILLSITE	5
906	ORIENTAL	12
907	LITTLE BELLE	12
919	TOLEDO	12
920	TOM PAINE	12
921	LUCY	12
944	WHALE	7
1041	GREEN MOUNTAIN NO. 1 MILLSITE	22
1042	GREEN MOUNTAIN NO. 2 MILLSITE	22
1054	R. BLUM	15
1055	INTERNATIONAL	15
1057	GARFIELD	1
1059	STANLEY PLACER	10
1071B	MILLSITE	7
1072	LONG TOM	22
1124	OPHIR PLACER	9
1124B	OPHIR PLACER TRACT B	9
1156A	BIG GIANT	13
1156B	BIG GIANT MILLSITE	13
1157A	MOUNTAIN QUAIL	13
1157B	MOUNTAIN QUAIL MILLSITE	13
1158	REPUBLIC	14
1218	LAST CHANCE	15
1219A	ANNIE	27
1219B	ANNIE MILLSITE	27
1226	GREEN MOUNTAIN EXTENSION	22
1331	SLIDE	13
1340	KANSAS CITY	22
1341	SILVER THREAD	15
1342	COL. SELLERS	15
1343	DEARDORFF	15
1373	J. B. SMITH	11
1409	LEONARD	15
1498	SINA LOA	20
1566A	ANIMAS	10
1566B	ANIMAS MILLSITE	10
1568	MAYFLOWER	13
1620	BLACKSTONE	15
1710	ROYAL CHARTER	7
1734A	IDAHO NO. 1	10
1734B	MILLSITE	10
1735	IDAHO NO. 2	17

Mineral Survey No.	Name	Reference block
1849	SAL CUSTER	18
1864B	MILLSITE	2
2163	GRETCHEN	20
2164	SILVER LAKE	20
2329	CONTRA COSTA	11
2330	BULLION	27
2388	JURA	14
2389	MOUNTAIN QUEEN	13
2461	PYRAMID	18
2467	NORTH STAR FRACTIONAL	21
2468	KENDALL MOUNTAIN PLACER	10
2514	IDAHO	10
2580	ACHILLES	15
2581	SILVER FOUNTAIN	15
2616	DOLLY VARDEN NO. 2	11
2617	DOLLY VARDEN NO. 2 AND ETHAN ALLEN (EXTENSION AND COMBINATION)	18
4513	GRAY EAGLE	12
4764 (1)	ROCHESTER	20
4764 (2)	WHALE	20
4804	JOSEPH NEFF	5
4806	CABO	20
4811	BLACK DIAMOND	20
4952	MARTHA V. P.	20
5110	ROUND MOUNTAIN	20
5111 (1)	LITTLE SHAVER	20
5111 (2)	CROSS CUT	20
5111 (3)	GOOD FORTUNE	20
5407	SILVER BEAUTY	22
5437 (1)	MOTHER OF SOLOMON	7
5437 (2)	HANCOCK	7
5438	JOHN MOSS	7
5439	HIDDEN TREASURE	7
5440	AMINA	7
5471	HOME STATE	21
5483	BLACK CROW	22
5484	HIGHLAND CHIEF	22
5529A	LOWVILLE	19
5529B	MILLSITE	5
5530A	MAXWELL	20
*5569A	CAROLINE	19
5570	LEUCOSTICTE	19
5571	SOLSTICE	19
5940 (1)	SILVER CROWN	13
5940 (2)	ESMARALDA	13
6017 (1)	NIGHT BIRD	14
6017 (2)	WILHELM	14
6198	ROYAL	20
6207	E. L. MARTIN MILLSITE	10
6427	BLACK PRINCE	13
6552	BIG PINE	21
6561	J. W. COLLINS	20
6646	STAG	20
6647	GRIP	20
6994 (1)	SILVER LAKE SPUR	20
6994 (2)	ARABIAN BOY	20
7244	AMERICAN BOY	20
7568	PROFESSOR STELZNER	20
7608	POLAR STAR MILLSITE	4
7772	NORTH STAR EXTENSION	21
7802	LENA ALLEN	19
7896 (1)	PANUCO	20
7896 (2)	LAST CHANCE	20
7896 (3)	BUCKEYE NO. 2	26
7896 (4)	DANDY	20
8019	HILL	12
8492	HAPPY JACK	12
8497	NEVADA EXTENSION	12
8530	NEVADA	12
8531	WHALE MILLSITE	5
8592	ROCHESTER MILLSITE	5
8676	EMMA MILLSITE	13
8801A (1)	ESTHER ALLEN	4
8801A (2)	RIVERSIDE	4
8801A (3)	MARCIA L.	5
8801B	MARCIA L. MILLSITE	5
9003	RIVINGTON STREET	20
9104	NEW YORK CITY	20
9106A	ESSEX STREET	20
9106B	ESSEX STREET MILLSITE	5
9120	UNITY	12
9284	LAST CHANCE	11
9426	JESS	13
9837	IOWA MILLSITE	13
9842A (1)	PROFESSOR WINKLER	13
9842A (2)	EL PASO	12
9842B	PROFESSOR WINKLER MILLSITE	13
9843A	DUMP	20
9843B	DUMP MILLSITE	13
9852 (1)	GEORGE HESSE	5
9852 (2)	HELENA ROUX	5
9858	J. E. WARD MILLSITE	5
9883	HOWARDSVILLE MILLSITE	2
9884	ANIMAS MILLSITE	2
9903	FREE COINAGE	11
10036A (1)	VESPER	8
10036A (2)	MATIN	8
10036A (3)	EMMA	8
10036B	UNA MILLSITE	8
11148	IRON MASK	13
11380A	ARGENTINE	13
11380B	ARGENTINE MILLSITE	5
11448 (1)	GALENA	20
11448 (2)	LAST CHANCE	20
11448 (3)	BADGER	19
11469 (1)	ALGIERS	20
11469 (2)	CAIRO	20
11469 (3)	PROFESSOR WEDDING	20
11469 (4)	PROFESSOR ZEUNER	20
11469 (5)	PROFESSOR NEISBACK	20
11559	LITTLE RAY	25
11575	LAKEVIEW	20
11582	SPOTTED PUP	21
11596 (1)	ANN HARRIS PLACER	4
11596 (2)	JEANETTE ROUX PLACER	4
11596 (3)	PETER PLACER	4
11596 (4)	BEND PLACER	4
11714	GOLDEN FLEECE	13
12122A (1)	SMYRNA	20
12122A (2)	JAFFA	20
12122B	SMYRNA MILLSITE	5
12193 (1)	LAST CHANCE	20
12193 (2)	CUB	21
12236	CHARLES CLINTON	13
12255	J. H. R.	19
12353	MELVILLE	20
12365	CHARLESTON PLACER	8
12671	DOLLIE BRIGHT	12
12818	LAKESIDE	20
12946 (1)	EXPLOIT	20
*5530B	MILLSITE	5

Mineral Survey No.	Name	Reference block
12946 (2)	HILLSIDE	20
12955	BLACK PRINCE EXTENSION	13
12977	ELK	20
12978	CLUB	20
13011	WHITE DIAMOND	20
13026	ELIZABETH	21
13064	LAKE SHORE	20
13065	KEY	20
13139	GALICYA	13
13322A (1)	GENERAL GRANT	4
13322A (2)	COIN	4
13322A (3)	GENERAL LOGAN	11
13322A (4)	PANIC	11
13322A (5)	MANHATTAN	11
13322A (6)	GENERAL SHERMAN	11
13322A (7)	DICK BLAND	11
13322A (8)	TRAIL	11
13322A (9)	DANA	12
13322A (10)	FIRST CHANCE	12
13322A (11)	BLAIR MOUNTAIN	11
13322B	BLAIR MOUNTAIN MILLSITE	4
13749	TIGER MILLSITE	5
13757	EXCELSIOR	16
14012 (1)	GOLD	5
14012 (2)	SOUTHSIDE	5
14012 (3)	BUENA VISTA	5
14019	ILLINOIS	13
14024 (1)	GENOA	5
14024 (2)	ALEXANDRIA	5
14027	SNOWSHED	13
14028	PROFESSOR RICHTER	19
14029 (1)	SEDALIA	19
14029 (2)	SMUGGLER	19
14030 (1)	GENERAL MERRITT	20
14030 (2)	MANILA	20
14035 (1)	PORTO RICO	20
14035 (2)	KINGSTON	26
14035 (3)	NAPLES	26
14035 (4)	LAKE VIEW	20
14035 (5)	MONTE CARLO	20
14035 (6)	JAMAICA	27
14035 (7)	MAGNALA	27
14036 (1)	TIGER EXTENSION NO. 2	2
14036 (2)	BARBADOES	21
14036 (3)	EMMA	27
14046	PROFESSOR NEWBERRY	12
14047 (1)	PROFESSOR CHANDLER	12
14047 (2)	GENERAL HALLACK	13
14047 (3)	LA VETA	13
14047 (4)	FREIBURG	20
14052	VON COTTA	13
14057	VIENNA PLACER	6
14059A (1)	LITTLE FOREST	13
14059A (2)	CASCADE	13
14059B	CASCADE MILLSITE	2
14066 (1)	JUPITER	20
14066 (2)	ECKLEY COXE	20
14066 (3)	PROFESSOR PERCY	20
14066 (4)	GENERAL MILES	20
14066 (5)	GENERAL HALE	20
14163	JOCKO	12
14196	DEMOSTHENES	18
14220 (1)	PYRAMID NO. 2	18
14220 (2)	PRRAMID NO. 3	19
14320 (1)	BIG GIANT EXTENSION	13
14320 (2)	DREADNAUGHT	13
14320 (3)	CONTENTION	13
14324	LEYNER	20
14383 (1)	TEMPTATION	24
14383 (2)	INDEPENDENCE	24
14393A	GOLD BUG	20
14393B	GOLD BUG MILLSITE	12
14591	GOLD LAKE	14
14806A (1)	SILVERTON PARK	9
14806A (2)	EMPIRE TUNNEL VEIN NO. 2	16
14806B	SILVERTON PARK MILLSITE	9
15112 (1)	RIVER	4
15112 (2)	PIEDMONT	4
15112 (3)	SAN JUAN	5
15112 (4)	NEW YORK	5
15112 (5)	WASHINGTON	5
15122 (1)	LITTLE GERTIE	11
15122 (2)	TARPON	11
15139	LAWRENCE	15
15143	ADAMS PLACER	13
15266	MILES JOHNSON	21
15308	SHEBA	5
15310 (1)	BALDY	11
15310 (2)	SLIDE ROCK	11
15310 (3)	TIP TOP	11
15310 (4)	JAMES YOUNG	11
15314 (1)	LACKAWANNA PLACER	10
15314 (2)	SLIDE ROCKLESS	11
15314 (3)	RESERVOIR	11
15314 (4)	TRAM	11
15327A (1)	WASHINGTON	17
15327A (2)	IDAHO NO. 4	17
15327B	IDAHO NO. 4 MILLSITE	10
15350 (1)	D. L. & W.	11
15350 (2)	PUNXSUTAWNEY	11
15350 (3)	MOOSIC	11
15350 (4)	T. V. POWDERLY	11
15350 (5)	FREE PRESS	11
15350 (6)	FRANCES	11
15350 (7)	P. DE LACEY	11
15351	HUNTINGTON	21
15404A	IDAHO NO. 3	10
15404B	IDAHO NO. 3 MILLSITE	10
15426	SCRANTON CITY	18
15466	MC MILLAN	14
15565A	SPRINGTIME	7
15565B	SPRINGTIME MILLSITE	7
15596	MINNESOTA	1
15639 (1)	CARL	7
15639 (2)	LITTLE PHILLIP	7
15639 (3)	ANYTHING	7
15639 (4)	PRIDE OF GALENA	7
15695	NELLIE BLY	11
15833A	CASCADE	23
15833B	CASCADE MILLSITE	23
15999	MAPLE NO.2	24
16196 (1)	PRODUCER	26
16196 (2)	OHIO BOY	26
16270	ELLEN	18
16272	CARRIE LOUISE	7
16301	TRILBY	21
16469	THE BLAIR MOUNTAIN PLACER	5
16476 (1)	COMBINATION	11
16476 (2)	PERHAPS	11
16476 (3)	FRITHIOF	11
16476 (4)	LIGHTNING ATTRACTING	11
16476 (5)	GROWLER	11
16476 (6)	INDEPENDENCE	11
16476 (7)	TWENTIETH CENTURY	11

Mineral Survey No.	Name	Reference block
16476 (8)	ELLIOA	11
16476 (9)	SCRANTON CITY NO. 2	11
16551	MAYFLOWER NO. 2	13
16761A (1)	EVENING STAR	7
16761A (2)	MORNING STAR	7
16761A (3)	UNION	7
16761A (4)	YANKEE GIRL	7
16761A (5)	YANKEE BOY	7
16761A (6)	GOLDEN GATE	7
16761A (7)	BLACK CHIEF	7
16761A (8)	SMUGGLER	7
16761A (9)	GOLD HILL	7
16761A (10)	OSCEOLA	7
16761A (11)	WHITE CHIEF	7
16761A (12)	SNOW SLIDE	7
16761A (13)	WILLIAM HUGHES	7
16761A (14)	MAMOUTH	7
16761A (15)	SUNYSHINE	7
16761A (16)	EUGEN	14
16761B	GOLD SPUR MILLSITE	7
16860	GRAY EAGLE	19
16862	GALENA PLACER	7
16914 (1)	OREGON SHIP	21
16914 (2)	HOBSON	21
16920	SEMINOLE	25
16921	UTICA	25
16928	DURANT NO. 1	25
16984	A. C. H.	15
17063 (1)	GOLD FISH EXTENSION	24
17063 (2)	GOLD FISH	24
17127 (1)	IRON MASK	6
17127 (2)	HIDDEN TREASURE	6
17127 (3)	BLACK DWARF	6
17127 (4)	REGULATOR	6
17127 (5)	MARGARET	6
17127 (6)	ERNEST	6
17127 (7)	GOLD BUG	6
17127 (8)	GOLD BELT	6
17127 (9)	HUGO V. LANGE	6
17127 (10)	WOLFRAM	6
17127 (11)	THEODORE ROOSEVELT	6
17127 (12)	ANNIE	6
17127 (13)	RANGER	6
17132 (1)	OREGON SHIP NO. 3	21
17132 (2)	OREGON SHIP NO. 2	21
17181	POFFABRO	14
17287 (1)	TOWNSITE	15
17287 (2)	NEIGOLDSTOWNSITE	15
17408	MOSES	24
17470A (1)	NEW YORK	15
17470A (2)	OLD HAMMER	15
17470B	NAN C. MILLSITE	8
17680	EASTERN STAR PLACER	10
17686	E. B. F.	22
17688	IDEAL PLACER	16
17699	M. D. THATCHER PLACER	4
17788 (1)	TOGO	13
17788 (2)	KUROKI	13
17952	SILVERTON CEMETERY	3
17970, 1974A	ROCK ISLAND	7
18074 (1)	COLUMBIA NO. 2	18
18074 (2)	COLUMBIA	18
18074 (3)	COLUMBIA NO. 3	18
18138	STONEWALL	19
18181	J. G.	22
18219 (1)	VAMPIRE	7
18219 (2)	DUX	7
18219 (3)	HUB	7
18291 (1)	FLORENCE R.	16
18291 (2)	FLORENCE R. FRACTION	16
18434 (1)	VALLEY FORGE EXTENSION	5
18434 (2)	AURORA	5
18449 (1)	RAG TIME	6
18449 (2)	GREEN LAKE	6
18449 (3)	OLD COMFORT	6
18449 (4)	TIP	6
18452	NELLIE	12
18463 (1)	LIMESTONE	17
18463 (2)	LADY FORST	17
18463 (3)	FORST	23
18463 (4)	MANSON	23
18463 (5)	BROADWAY	24
18463 (6)	MOQUI CHIEF	24
18463 (7)	UTE CHIEF	24
18463 (8)	NAVAJO CHIEF	24
18463 (9)	IRON MASK	25
18638	GRAY EAGLE MILLSITE	12
18708	BIG BULL	12
18766 (1)	T. O. K.	15
18766 (2)	B. L. S.	15
18766 (3)	R. A. H.	15
18802 (1)	GLASCOW	12
18802 (2)	LONDON	12
18802 (3)	DUBLIN	12
18802 (4)	PARIS	12
18802 (5)	HAMILTON	12
18802 (6)	MONTREAL	12
18802 (7)	QUEBEC	12
19024 (1)	CAMP BIRD NO. 1	25
19024 (2)	CAMPBIRD NO. 3	25
19086	CINDERELLA	22
19354 (1)	MONTANA	25
19354 (2)	GOLD QUEEN	25
19475	MIDAS NO. 1	12
19476	SUNLIGHT	5
19479	LA BOCA	5
19512	GOLDEN AVENUE	22
19587	LOS ANIMAS	16
19613	EUFEMIA	13
19674 (1)	SAM E.	16
19674 (2)	OVERLOOK	16
19674 (3)	KEYSTONE	16
19694	EDGAR	28
19850 (1)	A	6
19850 (2)	B	6
19974	HERMOSA	5
20059	DIVES FRACTION	21
20060	CORA NELLIE ZOE	21
20063	MIDGET	21
20122	SEETEE	13
20311 (1)	GUNNISON	12
20311 (2)	INTERVENTION	12
20407	S. MILLSITE	5
20564 (1)	C. A. C.	13
20564 (2)	B. S. G.	13
20564 (3)	J. R. W.	13
20564 (4)	G. H. M.	13
20594	H. V. B. MILLSITE	4
20595 (1A)	T. H. W. MILLSITE TRACT A.	5
20595 (2)	M. B. MILLSITE	5
20595 (3)	N. N. MILLSITE	5
20595 (4)	H. M. MILLSITE	5
20595 (5)	E. C. W. MILLSITE	5

MINING CLAIMS ARRANGED ALPHABETICALLY

Numbers in parentheses identify individual claims in a group that has a single patent number

Mineral Survey No.	Name	Reference block
19850 (1)	A	6
16984	A. C. H.	15
2580	ACHILLES	15
15143	ADAMS PLACER	13
14024 (2)	ALEXANDRIA	5
11469 (1)	ALGIERS	20
7244	AMERICAN BOY	20
5440	AMINA	7
1566A	ANIMAS	10
1566B	ANIMAS MILLSITE	10
9884	ANIMAS MILLSITE	2
11596 (1)	ANN HARRIS PLACER	4
1219A	ANNIE	27
17127 (12)	ANNIE	6
1219B	ANNIE MILLSITE	27
15639 (3)	ANYTHING	7
42	AQUILLA	15
6994 (2)	ARABIAN BOY	20
11380A	ARGENTINE	13
11380B	ARGENTINE MILLSITE	5
199	ASPEN	12
219A, 677A	ASTOR	15
219B, 677B	ASTOR	15
18434 (2)	AURORA	5
19850 (2)	B	6
11448 (3)	BADGER	19
15310 (1)	BALDY	11
14036 (2)	BARBADOES	21
280	BEAR	19
903	BEISER PLACER	9
899	BELLE CONKLIN	16
11596 (4)	BEND PLACER	4
18708	BIG BULL	12
1156A	BIG GIANT	13
14320 (1)	BIG GIANT EXTENSION	13
1156B	BIG GIANT MILLSITE	13
6552	BIG PINE	21
16761A (7)	BLACK CHIEF	7
5483	BLACK CROOK	22
4811	BLACK DIAMOND	20
17127 (3)	BLACK DWARF	6
6427	BLACK PRINCE	13
12955	BLACK PRINCE EXTENSION	13
12955	BLACK PRINCE EXTENSION	13
1620	BLACKSTONE	15
13322A (11)	BLAIR MOUNTAIN	11
133322B	BLAIR MOUNTAIN MILLSITE	4
16469	THE BLAIR MOUNTAIN PLACER	5
841	BLAIR PLACER	3
18766 (2)	B. L. S.	15
155	BOWERY	18
18463 (5)	BROADWAY	24
20564 (2)	B. S. G.	13
232	BUCKEYE	26
7896 (3)	BUCKEYE NO. 2	26
14012 (3)	BUENA VISTA	5
2330	BULLION	27
4806	CABO	20
20564 (1)	C. A. C.	13
11469 (2)	CAIRO	20
19024 (1)	CAMP BIRD NO. 1	25
19024 (2)	CAMP BIRD NO. 3	25
15639 (1)	CARL	7
5569A	CAROLINE	19
16272	CARRIE LOUISE	7
14059A (2)	CASCADE	13
15833A	CASCADE	23
14059B	CASCADE MILLSITE	2
15833B	CASCADE MILLSITE	23
556	C. B. COBB	2
12236	CHARLES CLINTON	13
12365	CHARLESTON PLACER	8
411	CHLORIDE	5
19086	CINDERELLA	22
601	CLEMMONS PLACER	10
12978	CLUB	20
13322A (2)	COIN	4
1342	COL. SELLERS	15
18074 (2)	COLUMBIA	18
18074 (1)	COLUMBIA NO. 2	18
18074 (3)	COLUMBIA NO. 3	18
16476 (1)	COMBINATION	11
14320 (3)	CONTENTION	13
2329	CONTRA COSTA	11
20060	CORA NELLIE ZOE	21
827	CREMORNE	21
5111 (2)	CROSS CUT	20
12193 (2)	CUB	21
693B	CUMBERLAND MILLSITE	23
719	DAGENFELLS	15
13322A (9)	DANA	12
7896	DANDY	20
1343	DEARDORF	15
14196	DEMOSTHENES	18
561A	DIAMOND L.	20
13322A (7)	DICK BLAND	11
456	DIVES	21
20059	DIVES FRACTION	21
15350 (1)	D. L. & W.	11
12671	DOLLIE BLIGHT	12
2616	DOLLY VARDEN NO. 2	11
2617	DOLLY VARDEN, NO. 2, AND ETHAN ALLEN (EXTENSION AND COMBINATION)	18
14320 (2)	DREADNAUGHT	13
18802 (3)	DUBLIN	12
9843A	DUMP	20
9843B	DUMP MILLSITE	13
16928	DURANT NO. 1	25
18219 (2)	DUX	7
17680	EASTERN STAR PLACER	10
17686	E. B. F.	22
14066 (2)	ECKLEY COXE	20
711	ECLIPSE	21
20595 (5)	E. C. W. MILLSITE	5
19694	EDGAR	28
13026	ELIZABETH	21
12977	ELK	20
16270	ELLEN	18
16476 (8)	ELLIOA	11
6207	E. L. MARTIN	10
9842A (2)	EL PASO	12
238	EMMA	19
10136A (3)	EMMA	8
14036 (3)	EMMA	27
8676	EMMA MILLSITE	13
14806A (2)	EMPIRE TUNNEL VEIN NO. 2	16
17127 (6)	ERNEST	6
5940 (2)	ESMARALDA	13
9106A	ESSEX STREET	20
9106B	ESSEX STREET MILLSITE	5
8801A (1)	ESTHER ALLEN	4
19613	EUFEMIA	13
16761A (16)	EUGEN	14

Mineral Survey No.	Name	Reference block
16761A (1)	EVENING STAR	7
13757	EXCELSIOR	16
12946 (1)	EXPLOIT	20
13322A (10)	FIRST CHANCE	12
100	FLATBROKE	15
18291 (1)	FLORENCE FRACTION	16
18291 (2)	FLORENCE R. FRACTION	16
18463 (3)	FORST	23
15350 (6)	FRANCES	11
9903	FREE COINAGE	11
15350 (5)	FREE PRESS	11
14047 (4)	FREIBURG	20
16476 (3)	FRITHIOF	11
11448 (1)	GALENA	20
16862	GALENA PLACER	13
13139	GALICYA	13
1057	GARFIELD	1
828	GENERAL GARFIELD	14
13322A (1)	GENERAL GRANT	4
14066 (5)	GENERAL HALE	20
14047 (2)	GENERAL HALLACK	13
13322A (3)	GENERAL LOGAN	11
14066 (4)	GENERAL MILES	20
14030 (1)	GENERAL MERRITT	20
13322A (6)	GENERAL SHERMAN	11
14024 (1)	GENOA	5
9852 (1)	GEORGE HESSE	5
20564 (4)	G. H. M.	13
18802 (1)	GLASGOW	12
14012 (1)	GOLD	5
17127 (8)	GOLD BELT	6
14393A	GOLD BUG	20
17127 (7)	GOLD BUG	6
14393B	GOLD BUG MILLSITE	12
19512	GOLDEN AVENUE	22
11714	GOLDEN FLEECE	13
16761A (6)	GOLDEN GATE	7
17063 (2)	GOLDEN FISH	24
17063 (1)	GOLD FISH EXTENSION	24
16761A (9)	GOLD HILL	7
14591	GOLD LAKE	14
19354 (2)	GOLD QUEEN	25
16761B	GOLD SPUR MILLSITE	7
5111 (3)	GOOD FORTUNE	20
4513	GRAY EAGLE	12
16860	GRAY EAGLE	19
18638	GRAY EAGLE	12
18449 (2)	GREEN LAKE	6
557	GREEN MOUNTAIN	22
1226	GREEN MOUNTAIN EXTENSION	22
1041	GREEN MOUNTAIN NO. 1 MILLSITE	22
230	GREEN MOUNTAIN NO. 2	15
1042	GREEN MOUNTAIN NO. 2 MILLSITE	22
2163	GRETCHEN	20
6647	GRIP	20
16476 (5)	GROWLER	11
20311 (1)	GUNNISON	12
18802 (5)	HAMILTON	12
5437 (2)	HANCOCK	7
8492	HAPPY JACK	12
9852 (2)	HELENA ROUX	5
19974	HERMOSA	5
5439	HIDDEN TREASURE	[illegible]
17127 (2)	HIDDEN TREASURE	6
5484	HIGHLAND CHIEF	22
46A	HIGHLAND MARY	22
245A	HIGHLAND MARY EXTENSION	22
245B	HIGHLAND MARY EXTENSION MILLSITE	22
46B	HIGHLAND MARY MILLSITE	22
8019	HILL	12
12946 (2)	HILLSIDE	20
20595 (4)	H. M. MILLSITE	5
16914 (2)	HOBSON	21
5471	HOMESTAKE	21
9883	HOWARDSVILLE MILLSITE	2
18219 (3)	HUB	7
17127 (9)	HUGO V. LANGE	6
15351	HUNTINGTON	21
20594	H. V. B. MILLSITE	4
2514	IDAHO	10
1734A	IDAHO NO. 1	10
1735	IDAHO NO. 2	17
15404A	IDAHO NO. 3	10
15404B	IDAHO NO. 3 MILLSITE	10
15327A (2)	IDAHO NO. 4	17
15327B	IDAHO NO. 4 MILLSITE	10
17688	IDEAL PLACER	16
14019	ILLINOIS	13
14383 (2)	INDEPENDENCE	24
16476 (6)	INDEPENDENCE	11
1055	INTERNATIONAL	15
20311 (2)	INTERVENTION	12
480	IOWA	20
9837	IOWA MILLSITE	13
11148	IRON MASK	13
17127 (1)	IRON MASK	6
18463 (9)	IRON MASK	25
12122A (2)	JAFFA	20
14035 (6)	JAMAICA	27
15310 (4)	JAMES YOUNG	11
1373	J. B. SMITH	11
11596 (2)	JEANETTE ROUX PLACER	4
9426	JESS	13
9858	J. E. WARD MILLSITE	5
18181	J. G.	22
12255	J. H. R.	19
4163	JOCKO	12
380	JOHN LEE	8
5438	JOHN MOSS	7
4808	JOSEPH NEFF	5
20564 (3)	J. R. W.	13
14066 (1)	JUPITER	20
2388	JURA	20
6561	J. W. COLLINS	14
1340	KANSAS CITY	22
797A	KATY	7
797B	KATY MILLSITE	7
2468	KENDALL MOUNTAIN PLACER	10
13065	KEY	20
562A	KEYSTONE	2
19674 (3)	KEYSTONE	16
562B	KEYSTONE MILLSITE	2
409	KING SOLOMON	13
14035 (2)	KINGSTON	26
646	KING WILLIAM	15
17788 (2)	KUROKI	13
19479	LA BOCA	5
15314 (1)	LACKAWANNA PLACER	10
18463 (2)	LADY FORST	17
13064	LAKE SHORE	20
12818	LAKESIDE	20

Mineral Survey No.	Name	Reference block
11575	LAKEVIEW	20
14035 (4)	LAKEVIEW	20
249	LA PLATA	15
1218	LAST CHANCE	15
7896 (2)	LAST CHANCE	20
9284	LAST CHANCE	11
11448 (2)	LAST CHANCE	20
12193 (1)	LAST CHANCE	20
14047 (3)	LA VETA	13
15139	LAWRENCE	15
753	LEGAL TENDER	5
7802	LENA ALLEN	19
1409	LEONARD	15
5570	LEUCOSTICTE	19
14324	LEYNER	20
16476 (4)	LIGHTNING ATTRACTING	11
18463 (1)	LIMESTONE	17
907	LITTLE BELLE	12
127	LITTLE FANNY	15
14059A (1)	LITTLE FOREST	13
15122 (1)	LITTLE GERTIE	11
902	LITTLE GIANT	13
169A	LITTLE NATION	7
169A	LITTLE NATION MILLSITE	2
15639 (2)	LITTLE PHILLIP	7
11559	LITTLE RAY	25
5111 (1)	LITTLE SHAVER	20
18802 (2)	LONDON	12
1072	LONG TOM	22
250	LOOKOUT	28
19587	LOS ANIMAS	16
5529A	LOWVILLE	19
921	LUCY	12
423	MAC GREGOR	12
15466	MC MILLAN	14
14035 (7)	MAGNALA	27
449	MAMMOTH	12
16761A (14)	MAMOUTH	7
13322A (5)	MANHATTAN	11
14030 (2)	MANILA	20
18463 (4)	MANSON	23
15999	MAPLE NO. 2	24
8801A (3)	MARCIA L.	5
8801B	MARCIA L. MILLSITE	5
17127 (5)	MARGARET	6
4952	MARTHA V. P.	20
10036A (2)	MATIN	8
5530A	MAXWELL	20
1568	MAYFLOWER	13
16551	MAYFLOWER NO. 2	13
20595 (2)	M. B. MILLSITE	5
17699	M. D. THATCHER PLACER	4
652	MELLVILLE MILLSITE	9
12353	MELVILLE	20
19475	MIDAS NO. 1	12
20063	MIDGET	21
15266	MILES JOHNSON	21
561B	MILLSITE	2
647B	MILLSITE	16
648B	MILLSITE	16
649B	MILLSITE	16
1071B	MILLSITE	7
1734B	MILLSITE	10
1864B	MILLSITE	2
5529B	MILLSITE	5
5530B	MILLSITE	5
15596	MINNESOTA	1
19354 (1)	MONTANA	25
14035 (5)	MONTE CARLO	20
18802 (6)	MONTREAL	12
15350 (3)	MOOSIC	11
18463 (6)	MOQUI CHIEF	24
16761A (2)	MORNING STAR	7
17408	MOSES	24
5437 (1)	MOTHER OF SOLOMON	7
251	MOUNTAINEER	7
1157A	MOUNTAIN QUAIL	13
1157B	MOUNTAIN QUAIL	13
2389	MOUNTAIN QUEEN	13
17470B	NAN C. MILLSITE	8
14035 (3)	NAPLES	26
18463 (8)	NAVAJO CHIEF	24
17287 (2)	NEIGOLDSTOWNSITE	12
18452	NELLIE	12
15695	NELLIE BLY	11
8530	NEVADA	12
8497	NEVADA EXTENSION	12
15112 (4)	NEW YORK	5
17470A (1)	NEW YORK	15
9104	NEW YORK CITY	20
6017 (1)	NIGHT BIRD	14
20595 (3)	N. N. MILLSITE	5
297	NORTH STAR	21
7772	NORTH STAR EXTENSION	21
2467	NORTH STAR FRACTIONAL	21
768	NORTH STAR PLACER	5
196A	NUMBER 1	22
196B	NUMBER 1 MILLSITE	28
222A	NUMBER 3	22
222B	NUMBER 3	28
16196 (2)	OHIO BOY	26
18449 (3)	OLD COMFORT	6
17470A (2)	OLD HAMMER	15
1124	OPHIR PLACER	9
1124B	OPHIR PLACER TRACT B	9
16914 (1)	OREGON SHIP	21
17132 (2)	OREGON SHIP NO. 2	21
17132 (1)	OREGON SHIP NO. 3	21
95	ORIENTAL	15
906	ORIENTAL	15
85	OSCEOLA	12
16761A (10)	OSCEOLA	7
19674 (2)	OVERLOOK	16
13322A (4)	PANIC	11
7896 (1)	PANUCO	20
18802 (4)	PARIS	12
445	PATHFINDER	5
15350 (7)	P. DE LACEY	11
905A	PEACOCK	12
905B	PEACOCK MILLSITE	5
16476 (2)	PERHAPS	11
11596 (3)	PETER PLACER	4
128	PHILADELPHIA	15
15112 (2)	PIEDMONT	4
17181	POFFABRO	14
7608	POLAR STAR MILLSITE	4
404	POMPEII	18
14035 (1)	PORTO RICO	20
457	POTOMAC	14
15639 (4)	PRIDE OF GALENA	7
41	PRIDE OF THE WEST	15
254	PRIDE OF THE WEST EXTENSION	15
16196 (1)	PRODUCER	26

Mineral Survey No.	Name	Reference block
14047 (1)	PROFESSOR CHANDLER	12
11469 (5)	PROFESSOR NEISBACK	20
14046	PROFESSOR NEWBERRY	12
14066 (3)	PROFESSOR PERCY	20
14028	PROFESSOR RICHTER	19
7568	PROFESSOR STELZNER	20
11469 (3)	PROFESSOR WEDDING	20
9842A (1)	PROFESSOR WINKLER	13
9842B	PROFESSOR WINKLER MILLSITE	13
11469 (4)	PROFESSOR ZEUNER	20
421	PROSPECTOR	5
15350 (2)	PUNXSUTAWNEY	11
2461	PYRAMID	18
14220 (1)	PYRAMID NO. 2	18
14220 (2)	PYRAMID NO. 3	19
18802 (7)	QUEBEC	12
497	QUEEN	12
18449 (1)	RAG TIME	6
18766 (3)	R. A. H.	15
17127 (13)	RANGER	6
1054	R. BLUM	15
154A	REGULATOR	15
17127 (4)	REGULATOR	6
154B	REGULATOR MILLSITE	15
1158	REPUBLIC	14
15314 (3)	RESERVOIR	11
220A, 678A	RICHMOND	15
220B, 678B	RICHMOND MILLSITE	15
15112 (1)	RIVER	4
8801A (2)	RIVERSIDE	4
9003	RIVINGTON STREET	20
47	ROBERT BRUCE	21
4764 (1)	ROCHESTER	20
8592	ROCHESTER MILLSITE	5
17970, 1974A	ROCK ISLAND	7
5110	ROUND MOUNTAIN	20
6198	ROYAL	20
1710	ROYAL CHARTER	7
48	ROYAL TIGER	20
769	ROYAL TIGER NO. 1	20
654	RUBY NO. 1 PLACER	3
655	RUBY NO. 2 PLACER	3
1849	SAL CUSTER	18
19674 (1)	SAM E.	16
15112 (3)	SAN JUAN	5
381	SAVANNAH	15
15426	SCRANTON CITY	18
16476 (9)	SCRANTON CITY NO. 2	11
14029 (1)	SEDALIA	19
20122	SEETEE	13
16920	SEMINOLE	25
96	SEYMOUR	5
15308	SHEBA	5
274	SHENANDOAH	21
519	SHENANDOAH NO. 3	21
5407	SILVER BEAUTY	22
5940 (1)	SILVER CROWN	13
2581	SILVER FOUNTAIN	15
2164	SILVER LAKE	20
6994 (1)	SILVER LAKE SPUR	20
681	SILVER STAR	5
1341	SILVER THREAD	15
17952	SILVERTON CEMETERY	3
14806A (1)	SILVERTON PARK	9
14806B	SILVERTON PARK MILLSITE	9
1498	SINA LOA	20
1331	SLIDE	13
15310 (2)	SLIDE ROCK	11
15314 (2)	SLIDE ROCKLESS	11
20407	S. MILLSITE	5
14029 (2)	SMUGGLER	19
16761A (8)	SMUGGLER	7
12122A (1)	SMYRNA	20
12122B	SMYRNA MILLSITE	5
14027	SNOWSHED	13
16761A (12)	SNOWSLIDE	7
5571	SOLSTICE	19
14012 (2)	SOUTHSIDE	5
11582	SPOTTED PUP	21
15565A	SPRINGTIME	7
15565B	SPRINGTIME MILLSITE	7
6646	STAG	20
1059	STANLEY PLACER	10
18138	STONEWALL	19
19476	SUNLIGHT	5
16761A (15)	SUNYSHINE	7
447	SUSQUEHANNA	12
15122 (2)	TARPON	11
14383 (1)	TEMPTATION	24
272	TERRIBLE	20
17127 (11)	THEODORE ROOSEVELT	6
20595 (1A)	T. H. W. MILLSITE TRACT A	5
14036 (1)	TIGER EXTENSION NO. 2	21
13749	TIGER MILLSITE	5
18449 (4)	TIP	6
15310 (3)	TIP TOP	11
403	TITUSVILLE	19
17788 (1)	TOGO	13
18766 (1)	T. O. K.	15
919	TOLEDO	12
920	TOM PAINE	12
17287 (1)	TOWNSITE	15
130	TRAIL	15
13322A (8)	TRAIL	11
15314 (4)	TRAM	11
16301	TRILBY	21
15350 (4)	T. V. POWDERLY	11
16476 (7)	TWENTIETH CENTURY	11
10036B	UNA MILLSITE	8
16761A (3)	UNION	7
9120	UNITY	12
18463 (7)	UTE CHIEF	24
16921	UTICA	25
653	VALLEY FORGE	5
18434 (1)	VALLEY FORGE EXTENSION	5
18219 (1)	VAMPIRE	7
10036A (1)	VESPER	8
14057	VIENNA PLACER	6
14052	VON COTTA	6
15112 (5)	WASHINGTON	5
15327A (1)	WASHINGTON	17
944	WHALE	7
4764 (2)	WHALE	20
8531	WHALE MILLSITE	5
16761A (11)	WHITE CHIEF	7
13011	WHITE DIAMOND	20
6017 (2)	WILHELM	14
16761A (2)	WILLIAM HUGHES	7
53	WM. N. NICHOLS	22
563A	WINNEMUCCA	7
563B	WINNEMUCCA MILLSITE	2
17127 (10)	WOLFRAM	6
16761A (5)	YANKEE BOY	7
16761A (4)	YANKEE GIRL	7
311	YELLOW JACKET	21

Base from U. S. Geological Survey advance sheet Silverton and vicinity, San Juan Co., Colorado, 1931

CLAIM MAP OF THE SOUTH SILVERTON MINING AREA, COLORADO

SCALE 1:12 000

1000 0 1000 2000 3000 4000 5000 6000 FEET

CONTOUR INTERVAL 200 FEET
DATUM IS MEAN SEA LEVEL

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—10409

Compiled from various company maps and records of the General Land Office and adjusted to the topographic base by D. J. Varnes, 1946

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No. 180

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THE OCCURRENCE AND DISTRIBUTION OF CORUNDUM IN THE UNITED STATES.—PRATT

WASHINGTON
GOVERNMENT PRINTING OFFICE
1901

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UNITED STATES GEOLOGICAL SURVEY

CHARLES D. WALCOTT, DIRECTOR

THE

OCCURRENCE AND DISTRIBUTION

OF

CORUNDUM IN THE UNITED STATES

BY

JOSEPH HYDE PRATT

WASHINGTON

GOVERNMENT PRINTING OFFICE

1901

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HISTORICAL SKETCH.

Deeply covered with snow for a great part of the year, and standing remote from lines of transportation and points of supply, it is not surprising that the rugged San Juan Mountains should, until a comparatively late period, have discouraged the advance of prospectors into their lonely ravines. Prior to 1860 the area now included in the Silverton quadrangle had been visited by but few white men, and at a time when every gulch of the Sierra Nevada was a scene of picturesque activity the Indian and the mountain sheep were as yet undisturbed in their possession of the San Juan. But no natural obstacles have ever long withstood the restlessness and indomitable perseverance of the seekers after precious metals. In 1860 (according to some, 1861) a large party of miners, under the leadership of John Baker,[1] penetrated to the little mountain-rimmed "park" where the town of Silverton now stands. They had hoped to find profitable gulch mining, but, overtaken by the heavy winter snows and harassed by the Ute Indians, many of the party perished miserably and the remnant escaped over the mountains only after suffering great hardships. For several years the memory of this unfortunate expedition seems to have discouraged further attempts at prospecting in the neighborhood of Bakers Park. It was not until the early seventies that reports of mineral wealth again began to draw the more adventurous miners into the San Juan region. Some gold was early obtained by washing in Arrastra Gulch, and this led, in 1870, to the discovery by a party of prospectors sent out by Governor Pile, of New Mexico, of the first mine which was successfully operated, the Little Giant, on the north side of Arrastra Gulch.[2] This produced a gold ore, of which some 27 tons were treated in arrastres, yielding $150 a ton. The first shipment of ore from the district is said to have been from this mine. In 1872 troops were sent into the region to keep out the miners, as their presence constituted a violation of the treaty of 1868, by which the Utes were secured in sole possession. In the same year a commission was appointed by Congress to negotiate a new treaty with the Indians to reduce the extent of their reservation. The Little Giant Company was organized in Chicago in 1872, and in 1873 the arrastres were replaced by an amalgamating mill equipped with a Dodge crusher, a ball pulverizer, and five stamps. Power was furnished by a 12-horsepower engine. The mill was built 1,000 feet below the mine and the ore was brought down on the first wire-rope tramway built in the region. This year the mine produced about $12,000 out of a total of about $15,000 for the entire region. The pay shoot, however, began

[1] Accounts differ as to the Christian name of this pioneer. Thus Bancroft (History of Nevada, Colorado, and Wyoming, San Francisco, 1890, p. 495) refers to him as *John* Baker; T. A. Rickard, in his paper on The Development of Colorado's Mining Industry (Trans. Am. Inst. Min. Eng., Vol. XXVI, 1896), gives his name as *Jim* Baker; while Frank Hall, in his History of Colorado, makes him *Charles* Baker.

[2] According to Rickard, opened by Miles T. Johnson in 1871.

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to diminish, and after the milling of a few hundred tons of ore mine and mill were abandoned. Several lode. had by this time been opened in the region and some small amounts of rich ore had been taken out, but it was not until 1874 that the main rush to the country began. In September of the previous year a treaty, known as the Brunot treaty, had been drawn up with the Utes, whereby the San Juan Mountains were thrown open to settlement. The ratification of this treaty by the Senate in April, 1874, was followed by a sudden influx of miners, chiefly from the northern camps of Colorado, but including also a few from the south, and some even from the far West. It is estimated that about 2,000 men came into the district during the summer of 1874, and Endlich[1] reports that more than this number of lodes were then staked out.[2] At that time La Plata, Hinsdale, and Rio Grande were the only counties into which the former reservation had been divided. The chief settlement and the county seat of La Plata County was Howardsville; but in the autumn of 1874 the county seat was moved to Silverton, then a growing town of some dozen houses, admirably situated in Bakers Park. The nearest post-office at this time was Del Norte, about 125 miles distant. In 1876 San Juan County was formed from a portion of La Plata County, with Silverton as the county seat. At this time the town is said to have had a population of about 500 voters. Ouray, San Miguel, and Dolores counties were subsequently formed by legislative enactment from the territory originally included in La Plata County.

In 1874 real mining began, principally on Hazelton Mountain, and several hundred tons of gray copper and galena ore were taken out from the Aspen, Prospector, Susquehanna, and neighboring claims during this and the immediately succeeding years. This ore was treated chiefly in Greene & Co's. smelter, which was erected just north of Silverton in 1874, but which was not successfully blown in until the following year. The machinery was brought in on burros from Colorado Springs, then the terminus of the Denver and Rio Grande Railroad. The product of the entire quadrangle for 1875 was about $35,000, and an estimate made in 1877 places the total product from the beginning of mining to the close of 1876 at a little over $1,000,000. The Greene smelter was in intermittent operation until 1879, and was the first successful water-jacket furnace in the State. Its daily capacity was about 12 tons, and it is said to have smelted nearly $400,000 worth of silver-lead bullion. The bullion was shipped by pack train and wagon to Pueblo. The cost of transporting it to the railway terminus was $60 per ton in 1876, $56 per ton in 1877, and $40 per ton in 1878. The average price for treatment was not far from $100 per ton. During the seventies the chief route into the Animas mining district was by the trail from Del Norte on the Rio

[1] U. S. Geol. and Geog. Surv. Terr., Report for 1876, pp. 120-121.

[2] According to Bancroft, "more than 1,000 lodes claimed." Loc. cit., p. 501.

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Grande, by way of Antelope Park and Cunningham Gulch. Over this route the first ore sold from the Pride of the West mine, in Cunningham Gulch, was taken out in 1874. It was not until 1879 that the wagon road from Antelope Park was completed by way of Stony Gulch, and ore could be hauled out to Del Norte by teams at $30 a ton.

The founding of Lake City, about the year 1875, and the establishment there by Crooke & Co. of a smelting plant, afforded a market for the ores of the northeastern portion of the quadrangle. The first ore shipped out from this part of the district was from the Mountain Queen mine, at the head of California Gulch, in 1877. It amounted to 370 tons, and contained 64 per cent of lead and 30 ounces of silver per ton. It was carried by pack animals to the end of the road at Rose's cabin, at a cost of $3 per ton. Crooke & Co., of Lake City, and Mather & Geist, of Pueblo, both had ore-buying agencies in Silverton in 1879. During this year about 500 tons of ore, worth about $60,000, were sent to the Lake City smelter, and about 185 tons went to Pueblo. The value of the latter was probably about $25,000.

In 1879 a road was completed from Silverton up Cement Creek to the head of Poughkeepsie Gulch, where prospecting and mining was going on with great activity on the Old Lout, Alabama, Poughkeepsie, Red Roger, Saxon, Alaska, Bonanza, and other claims. Chlorination and lixiviation works were erected at Gladstone about this time, to treat these ores by the Augustin process. Their capacity was about 6 tons per day.

During the seventies the eastern and northeastern portions of the quadrangle were actively prospected, and nearly every lode which has subsequently proved valuable was then located. In some cases paying ore was taken out in large quantities, as from the North Star mine on Sultan Mountain and others already referred to. But this activity was in great part feverish and unwholesome. The success of a few encouraged extravagance in the incompetent, and opened a rich field to unscrupulous and dishonest promoters. Smelting plants and mills were erected before the presence of ore was ascertained. Reduction processes were installed without any pains having been taken to ascertain their applicability to the particular ores to be treated. Thus in 1876 Animas Forks was a lively town of some 30 houses and 2 mills, and in 1883 boasted of a population of 450. But there was never any real justification for its existence. Built upon hopes never realized, its decline was almost as rapid as its rise, and the town is now ruined and desolate. Its principal mill was put up in 1875 or 1876 to treat ore from the Red Cloud mine, but was never successful. The Eclipse smelter, erected by James Cherry as late as 1880, at the mouth of Grouse Gulch, ostensibly to run on lead ores from the Mountain Queen and other claims, was also a costly failure. The Bonanza tunnel, a mile and a half west of the town, was run 1,000

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feet at the extravagant cost of $300,000 or $400,000, and then abandoned. Around Mineral Point probably $2,000,000 or $3,000,000 were squandered in mining operations which resulted in no permanent improvements or actual development. Numerous similar cases might be cited from this region, many of them unfortunately of much more recent date. Capital thus invested serves only to build monuments of failure, folly, and dishonesty, which may operate to delay for years such development and improvement as the mineral resources of a district really warrant.

In 1881 the remarkable deposits between Red Mountain and Ironton were discovered, and in 1882 and 1883 prospectors swarmed into this new field. The Yankee Girl ore body was struck in 1882, and, with the Guston, shipped large quantities of high-grade silver ore for over fourteen years. These two mines alone have probably produced at least $6,000,000 or $7,000,000, but a very large amount of capital has been vainly expended in attempts to find other ore bodies in the vicinity equally large and rich. Nowhere else in the quadrangle has mining been carried on so extensively. In 1888 the railroad was extended from Silverton to Ironton, greatly facilitating the marketing of the ore. Red Mountain and Ironton were formerly thriving mining towns of 400 or 500 inhabitants, and the activity steadily increased almost up to 1893, when the fall in the value of silver and the exhaustion of the phenomenally rich portions of the ore bodies caused the boom to collapse. The Yankee Girl and Guston mines continued working until 1896, but the low price of silver and the increased expense involved in deep workings and in handling the troublesome corrosive waters of these mines, together with the lower grade of the ores in depth, finally compelled them too to shut down. From that time to the present Red Mountain and Ironton have remained practically dead camps.

Previous to the advent of the railroad in Silverton, ores running less than $100 per ton could seldom be handled with profit, but with the completion of the Silverton branch of the Denver and Rio Grande narrow-gauge railroad in July, 1882, the rate of transportation on low-grade ores was much reduced, and many mines hitherto unavailable became productive. Freight charges, at first $16 per ton to Denver or Pueblo, were soon dropped to $12, at which high figure they stood for some time. Over 6,000 tons of ore were shipped from Silverton during the first six months after the advent of the railroad. The Greene smelter had some years previously (about 1880) come into the possession of the New York and San Juan Smelting Company, which in 1881 moved the Silverton plant to Durango and in 1882 started the present smelter in that town. In September, 1887, the name was changed to the Durango Smelting Company, which operated until April 1, 1888. From that date until May 1, 1895, business was carried on under the name of the San Juan Smelting and Mining Company, a

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corporation organized through the consolidation of the Durango Smelting Company of Durango, and the Hazelton Mountain Mining Company, of Silverton, owners of the Aspen group of mines. The Martha Rose smelter, with a capacity of about 20 tons, began operations in Silverton in 1882, but after smelting about 11 tons of bullion shut down and was never successfully reopened.

The year 1883 was a busy one in Silverton, and the population of the town rose to over 1,500 inhabitants. Sampling works had previously been erected by E. T. Sweet and T. B. Comstock & Co. Late in the season a third plant was opened by Stoiber Brothers. The North Star on Sultan, the Belcher, Aspen, Gray Eagle, North Star on Solomon, the Green Mountain, as well as the Red Mountain mines, were all actively producing, while great strikes were announced in the Ben Franklin and Sampson mines. The Silver Lake mine also came into prominence and shipped that year 72 tons of ore to Sweet's sampling works.

It was not until about 1890 that any real attempt was made to concentrate low-grade ores. The credit of thus initiating a procedure upon which largely depends the future of the whole district must be divided between J. H. Terry, of the Sunnyside mine, and E. G. Stoiber, of the Silver Lake mine. Both men have been successful, and Mr. Stoiber in particular has shown how low-grade veins may be worked successfully on a large scale with a modern plant. About this time the North Star mine, on Sultan Mountain, put up the present mill, run by water power, and in 1894 Thomas Walsh and others erected the matte smelter just west of Silverton. Walsh treated by the Austin process the lower-grade Guston ore, and bought siliceous ores wherever he could obtain them. This smelter ran pretty steadily for three years and finally shut down. Its capacity was about 100 tons of ore a day for ten months in the year. In all, about 100,000 tons of low-grade siliceous and pyritiferous ores were treated. There was no further attempt made to smelt ores in Silverton until the construction in 1900 of the pyritic smelter, near the mouth of Cement Creek. The smelter at Durango, which was leased in 1895 by the Omaha and Grant Company, and which on May 1, 1899, became the property of the American Smelting and Refining Company, has continued to handle the bulk of the ore and concentrates from the Silverton region.

With a few notable exceptions the mines of the Silverton quadrangle produce ores in which silver and lead are the predominant metals. Naturally the rapid decline in the value of silver in 1892 and succeeding years resulted in the closing of many mines hitherto productive, and in a general decrease of mining activity. At the present time, however, there are signs of a favorable reaction and a marked increase of activity. The success of Messrs. Stoiber and Terry in handling low-grade ores has demonstrated that when wasteful and inadequate methods are replaced by modern appliances and shrewd management,

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mines carrying abundant low-grade ore may be made profitable, even with the present low price of silver. Probably, as in the past, periods of depression will sometimes retard mining improvements. Yet it is clear that the resources of the district have been far too often superficially, ignorantly, or wastefully exploited. Although examples of extravagance are still not hard to find, there is now a more general realization of the distinction between such wasteful expenditure and the legitimate and often large outlay that makes possible the economical working of known low-grade ore bodies. It is very probable that the future will see a great and permanent increase in the productive development of such large and persistent ore bodies of low average grade. The decline in the price of silver, and also in that of lead and copper, which are important constituents of most of the ores, has greatly reduced the margin of profit and rendered economical working imperative, as is illustrated in the following table:

Table showing the average annual prices of silver, lead, and copper, from 1880 to 1899.

Year.	Silver, per fine ounce.	Lead, per 100 pounds.	Copper, per pound.[a]	Year.	Silver, per fine ounce.	Lead, per 100 pounds.	Copper, per pound.[a]
1880	$1.145	$5.03	$0.216	1890	$1.050	$4.35	$0.156
1881	1.138	4.81	.188	1891	.988	4.33	.128
1882	1.136	4.91	.185	1892	.874	4.07	.115
1883	1.110	4.32	.159	1893	.779	4.10	.108
1884	1.113	3.74	.139	1894	.634	3.98	.094
1885	1.085	3.94	.110	1895	.658	3.24	.107
1886	.995	4.01	.110	1896	.674	2.97	.109
1887	.978	4.50	.113	1897	.603	3.60	.112
1888	.940	4.41	.168	1898	.588	3.75	.119
1889	.936	3.81	.134	1899	.601	4.44	.177

[a] Lake Superior ingot.

The prices of silver are taken from the annual reports of the Director of the Mint. The lead and copper values are compiled from tables showing monthly prices and monthly range in the reports on mineral resources issued as parts of the annual reports of the Geological Survey.

Although the first mine to be worked in the district was a gold producer, yet it is an interesting fact that for many years prospecting was practically restricted to a search for silver and lead ores. It was apparently owing to this adherence to an established routine that the Una and Gertrude claims in Imogene Basin, worked twenty years ago for silver and lead, were subsequently abandoned, with no knowledge of the remarkable gold ore which lay close alongside the argentiferous streak, and which was thrown out as waste. Masses of this rich ore were discovered by Thomas F. Walsh on the Camp Bird claim, and subsequently on the dump of the old workings of the Una and Gertrude, and he purchased the latter in 1896 for $10,000. It is to-day

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one of the greatest producing mines in the quadrangle, and certainly excels all others in the average richness and regularity of its ore bodies.

Placer mining has never been extensively practiced within the Silverton quadrangle. In former years a little washing was done on the east side of California Mountain, in Picayune Gulch, and in Arrastra Gulch, but there are no extensive deposits of auriferous gravels in the district, and the total output from placer mining is probably insignificant.

PRODUCTION.

Accurate figures from which the total production of the Silverton quadrangle might be computed are not available. The area comprises portions of several counties, and has shipped ore to various smelters. An attempt to ascertain and combine the products of the individual mines within the quadrangle has been only partially successful. In the case of some abandoned mines no records can be found, and in two instances requests to the owners of active mines for confidential statements of total output have met with no satisfactory response; but by combining actual figures with individual estimates it appears that the total production of the Silverton quadrangle from the beginning of mining activity to the close of 1900 has been at least $35,000,000. The greater part of this has undoubtedly been in silver, but during recent years, largely owing to the activity of the Camp Bird, Tomboy, and Gold King mines, and to the lower price of silver, the value of the gold output has predominated.

CLIMATE.

The climate of the Silverton quadrangle is, in general, somewhat rigorous. Meteorological records are lacking for this elevated region, and no accurate data can be given in regard to temperature and precipitation. The winters are long, the snowfall is heavy, and the temperature sometimes falls to 20° to 30° below zero. The first heavy snow usually arrives late in October, but heavy falls are not unknown in September. This early storm may be followed by fine weather, lasting well into December. In midwinter snowshoes afford the only means of communication over most of the higher roads and trails. Snowslides are frequent and dangerous, and a winter seldom passes without loss of life and property from this cause. It is often late in June before the snow has disappeared from the higher trails, and on northern slopes, sheltered from the sun, patches frequently linger until long after midsummer. The period extending from the beginning of July to the middle of August is referred to by the inhabitants as the "rainy season." During this period in normal years showers are of almost daily occurrence, usually coming up early in the afternoon and lasting for an hour or more. It is during this season that the wild flowers in the upland basins, notably many species of gentians

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be associated with post-mineral fracturing and crushing and to have been deposited later than the bulk of the ore. In the New York City lode of the Silver Lake mine a sooty, amorphous sulphide of copper occurs with pyrite, chalcopyrite, galena, and sphalerite. This is probably of secondary origin, and although not a product of ordinary oxidation is yet considered as due to descending waters percolating downward from the zone of weathering above.

ORIGIN OF THE LODE ORES.

Although the ores of the lode present many features not found in the stock deposits of the Red Mountain district, yet in the essential points of their origin they possess so much in common that it would be impossible to treat the two forms of deposit separately without much overlapping. Accordingly the question of the origin of the lode ores will be left in abeyance until the stocks have been described.

VALUE OF THE LODE ORES.

Generally speaking, the lode ores of the Silverton quadrangle are of low grade and require careful mining and milling to yield profitable returns. The ores which are or have been worked vary in value from a probable minimum of about $6 to several thousand dollars per ton. The extremely high values, however, are for ores carrying free gold occurring only in small amounts in pockets in otherwise low-grade lodes, or in very small veins, such as the Golden Fleece. From the Sunnyside Extension mine, however, ore was obtained in carload lots carrying $1,500 per ton in gold alone, as shown by the smelter returns. In the Silver Lake Basin the ores worked probably vary from $8 or $10 to $60 or $70 per ton, according to the proportion of lead, silver, or gold which they contain. The average of the ore from the Iowa mine is not far from $12 per ton, although in places it may contain from 2 to 3 ounces of gold, thus affording much higher returns. The general average of the Silver Lake mine is probably higher, as half the value of its output is in gold. The ore of the Royal Tiger is, on the other hand, somewhat lower, the product being chiefly in lead. The North Star mine, on Sultan Mountain, was producing quantities of ore in 1882 carrying, according to the Mint reports, 40 per cent of lead and 70 per cent of silver. At the commercial values for that year this would mean an ore of about $120 per ton, gross value, or, at present prices, about $72 per ton. The Aspen mine is said to have produced one lot of 1,000 tons of ore containing 110 ounces of silver and 60 per cent of lead, which at present prices would correspond to about $110 per ton. The average value of the ore from this mine was, however, probably less than half this. The shipping ore from the Ridgway mine, containing finely disseminated argentite, is reported to average about $110 per ton, of which about 3 ounces is in gold and the rest in silver. The free-gold ore of the Tomboy mine averages about $20 per ton, of which $19 is in gold. The most uniformly rich

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reopened in 1899. The ore is chiefly galena, with some tetrahedrite, the latter being more abundant in the upper tunnel. There is no mill at this mine, and the ore was formerly packed out on burros.

Titusville mine, at the head of Kendall Gulch, although not in Silver Lake Basin, may be most appropriately mentioned here as being on the same great lode as the Buckeye. This mine was first worked about 1886. A small mill was subsequently erected in Kendall Gulch, and the ore was carried down on a lightly constructed Huson tramway about 8,000 feet in length. The mine ceased operating in 1893. It was developed on four levels, aggregating about 1,150 feet of drifts. The lode is about 30 feet wide. Its general dip is to the northeast at about 80°, although it is locally vertical. It consists of chalcopyrite, galena, sphalerite, and pyrite, in a gangue of quartz and rhodochrosite. Chalcopyrite is the most abundant ore mineral. The ore is generally of low grade, that containing abundant chalcopyrite running about $6 per ton. There is a richer streak, however, usually about 14 inches wide, which may run as high as $30 per ton. Some of this richer ore contains very finely crystalline galena scattered through the quartz in minute particles. Where this occurs the ore may carry from 1 to 3 ounces of gold and 60 to 100 ounces of silver per ton, the value being associated with the presence of the galena. The product of the Titusville mine in 1888 was $51,300.

From this mine the lode can be traced over the slope to the summit of Kendall Mountain, where it appears to divide. It has been prospected along this distance on the Seymour, Emma, Pyramid, Pompeii, and Sal Custer claims, and some ore has been taken out, chiefly galena. On the west slope of Kendall Mountain, the Idaho prospect, in Silverton Gulch, is apparently on the same fissure or fissure zone, although it is here very different in character. The country rock at this point is monzonite, part of the great stock of Sultan Mountain. The vein here is usually without gouge and narrow—18 inches or less. It dips southwesterly about 80°. The ore is mostly chalcopyrite and pyrite, with pockets of galena in a quartz gangue. The galena usually occurs in the middle of the vein, with quartz, chalcopyrite, and pyrite on the sides. This prospect has been worked intermittently for twenty years and has produced some ore. The development consists of two tunnels and some small stopes.

LODES OF HAZELTON MOUNTAIN.

General.—Hazelton Mountain, as the spur separating Blair and Arrastra gulches is called, was the scene of some of the earliest mining in the quadrangle. In 1874 work was already in progress on the Aspen, Prospector, Susquehanna, Mammoth, and other claims, most of which were afterwards consolidated as the Aspen mine.

Aspen mine.—The workings of this mine, which are extensive, are shown in plan and longitudinal section in fig. 12. As early as 1875,

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Page 12 of 18

the Susquehanna and Aspen claims were being worked at a profit, while in 1876 the Prospector lode was developed by two shafts, 100 and 130 feet deep, connected by a drift 100 feet long. The product of the group up to 1880 has been estimated at over $200,000. In 1882 the Aspen group, embracing the Aspen, Susquehanna, Mammoth, Legal Tender, Matchless, and McGregor claims, was one of the best developed properties in the district and had over 5,000 feet of workings. During this year its operators contracted to furnish Sweet & Co., in Silverton, with 3,000 tons of ore, which were crushed, sampled, and sent to the new smelter in Durango. In 1893 the Mint reports credit the mine with a product of $75,000, and in 1897, $78,000. In 1892 the output, according to the same authority, was $50,916. In all, 11,423 tons of ore have been produced since January 1, 1884.

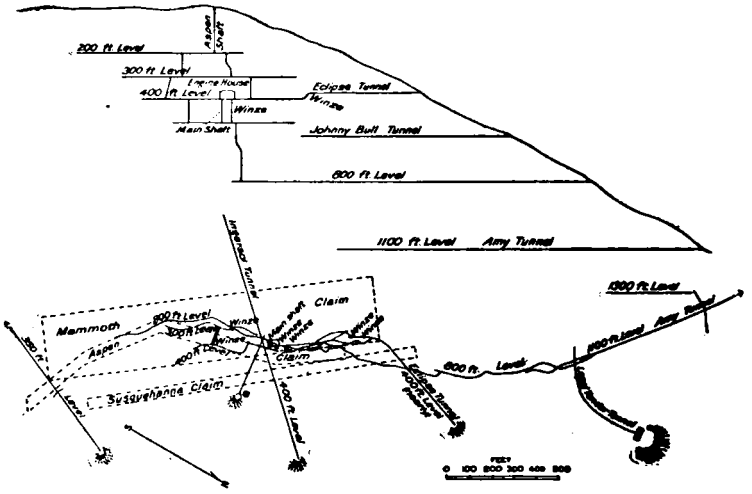

FIG. 12.—Plan and longitudinal section of the workings of the Aspen mine, Hazelton Mountain.

As the mine has been idle for several years, it was impracticable in 1899 to make a satisfactory study of its underground workings. In 1900, however, some progress had been made toward opening or retimbering the Amy tunnel, connecting with the 800-foot level. Access to a small portion of the lode was obtained through the Legal Tender tunnel. The vein at the point cut by the tunnel strikes N. 50° W. and dips southwest at about 80°. It is small at this place, accompanied by soft gouge and disturbed by some cross faulting. The Legal Tender tunnel shows the country rock to be traversed by several other veins running generally parallel to the Aspen.

The Aspen workings are in rocks belonging to the Silverton series, exhibiting chiefly the characteristic breccia structure already described and containing much rock of rhyolitic character. The lowest

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tunnel, which, judging from the dump, has not cut the lode, is in massive andesite.

According to information received from W. H. Thomas, there were several small veins near the surface, which came together in the deeper workings. The plan of the workings (fig. 12) indicates that the lode is of rather irregular character and that the general dip is northeasterly, at angles varying from 40° to vertical. It is often assumed that the Aspen lode is the northwestern continuation of that branch of the North Star lode upon which are located the Slide and Mayflower claims. But, as elsewhere pointed out, it is more likely that they are distinct.

The ore of the Aspen is chiefly a heavy lead-silver ore, consisting of galena, sphalerite, chalcopyrite, pyrite, tetrahedrite, and a little native silver in the upper workings. The gangue is quartz, with considerable green fluorite. The tetrahedrite is said to have occurred in pockets or bunches in the other ore minerals. One trial lot of ore, consisting of 1,000 tons, is reported to have run 110 ounces of silver and 60 per cent of lead, no returns being made for gold. The Aspen ore was smelted in the old Greene smelter, north of Silverton, as long as that pioneer plant was in operation.

It is commonly stated that the Aspen ceased working on account of the poverty of the ore in the lowest workings. It is probable, however, that good bodies of ore will yet be found, and that the mine will again become productive.

NORTH STAR[1] (KING SOLOMON) GROUP OF LODES.

General.—The prominent North Star lode crosses Little Giant Peak, northeast of Silver Lake Basin, very near its summit. Its general course is a little more northerly than that of the Silver Lake vein, or about N. 48° W. The dip is northeasterly, but nearly vertical. Northwest of the peak the lode continues through the Terrible, Slide, Mayflower, and Argentine claims, down into Arrastra Gulch. It is often supposed that the Grey Eagle-Aspen lode, on the south side of Arrastra Gulch, is part of the North Star lode. But the connection, if it exists, which is doubtful, is concealed by the talus in the gulch. It seems more probable that the Aspen is a distinct, essentially parallel, overlapping lode. Southeast of Little Giant Peak the North Star lode continues through the Dives, Shenandoah, Mountaineer, and Lookout claims into Mountaineer Gulch.

North Star (King Solomon) mine.—This mine was first regularly worked in 1883, although it had been exploited intermittently for three or four years previous to that time. Since then it has been producing steadily up to a year or two ago. The total product since 1883

[1] There are two North Star mines within the quadrangle—one on Little Giant Peak, commonly spoken of as "The North Star of King Solomon," and the other on the north base of Sultan Mountain. The former will be referred to in this report as "The North Star (King Solomon) mine."

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has been $1,200,000. The lode on the North Star property is a strong stringer lead, consisting of a zone of country rock traversed irregularly by ore-bearing stringers. At the croppings, near the summit of Little Giant Peak, this zone is about 100 feet wide. The vein as a whole has no walls, and the stringers are usually not accompanied by gouge. The country rock is that found in the Silver Lake Basin, and belongs to the Silverton series. The hard, massive sheets of andesite are found to be less favorable for the deposition of ore than the softer breccias. The character of the lode makes it very difficult to work. Ore-bearing stringers may be encountered anywhere within the zone of fissured country rock, and frequent crosscutting is a necessity. The reduced horizontal projection of the levels, shown in fig. 13, will give some idea of the irregular character of the workings. The pay

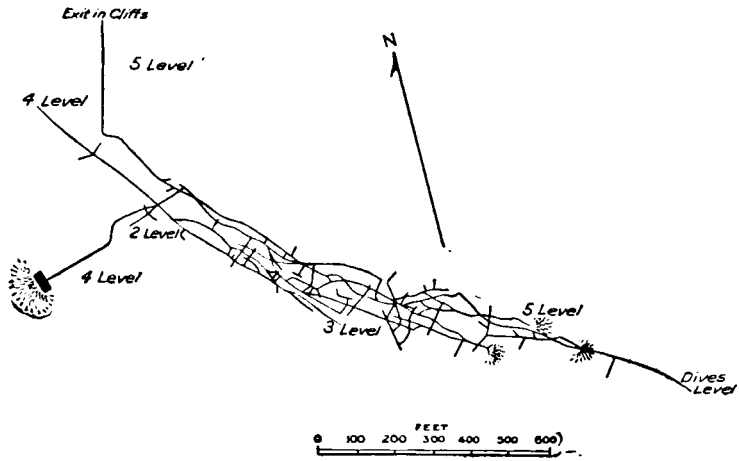

FIG. 13.—Sketch plan of underground workings of the North Star (King Solomon) mine.

shoot as a whole pitches to the southeast, apparently at an angle of about 45°. The upper 200 feet, near the surface, was largely sulphate of lead (anglesite) not carrying much silver. This changed in depth to galena, which was associated with increasing amounts of tetrahedrite as the ore was followed downward. In the lower levels the galena was subordinate to the gray copper. This was the most valuable ore mineral in the mine, being a highly argentiferous tetrahedrite, or the variety of gray copper known as freibergite. Below the fifth level the pay shoot failed, although the fissure continues. No serious prospecting has yet been undertaken to determine whether there may not be other ore bodies beneath the pay shoot. That there are such ore bodies is rendered probable by the fact that ore similar in character to that of the North Star mine occurs at a lower level in the Dives mine, which adjoins the former on the southeast. The gangue of the North Star ore was quartz. Some gold occurred occasionally in the

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ore of the lower levels, assays of 6 ounces to the ton having been obtained. This metal, however, formed an exceedingly small proportion of the whole output, which was chiefly in silver.

Owing to the cessation of mining and the accumulation of ice and mud in the abandoned workings, it was impossible to make any satisfactory study of the detailed structure of the lode. Small stringers and gouge seams are said to come in from the foot wall (southwest), as in the Silver Lake lode.

The ore from the North Star was sorted and packed on burros down to the road in Big Giant Gulch. From this point wagons carried it down to the Crooke mill, near the mouth of Boulder Gulch. Built to treat ore from the Polar Star mine, on Engineer Mountain, this mill was originally equipped with a modification of the Augustin leaching process. Its present plant consists of 1 7 by 10 Blake crusher; 10 1,000-pound stamps, dropping 5 inches at 90 to the minute; 5 Harz jigs, 1 Wilfley table, 3 Frue vanners, and 6 canvas tables. Power is furnished by a 60-horsepower engine and boiler. The capacity of the mill is about 50 tons. It is evident that ore so irregularly mined, and milled under such disadvantages, must have been high grade to have paid for extraction and treatment. Much ore that might have been profitably milled in a better-equipped mine has undoubtedly gone on the dump or remained in the stopes.

Dives mine.—This claim joins the North Star (King Solomon) on the southeast and is on the same lode. The workings here are not extensive and the mine has not yet produced much ore. It contains two stopes, one on the Dives and the other on the Shenandoah claim. The general character of the lode resembles that described in the North Star. It is an irregular stringer lead, without gouge and without regular walls. The ore is argentiferous gray copper (perhaps not a normal tetrahedrite, as it carries some lead), galena, chalcopyrite, and pyrite, in a gangue of quartz and barite. Small vugs lined with quartz crystals are common. Much of the vein matter is merely altered country rock, in which the outlines of former porphyritic crystals of feldspar are still recognizable. The ore-bearing stringers are distinctly cut by one, and possibly two, sets of later stringers of quartz, generally parallel to the course of the lode. These later stringers, as far as observed, are small, and are usually barren, though some carry a little ore. Comb structure is particularly common in them. A well-marked spherulitic structure was noted in some of the ore. More or less rounded, irregular lumps of tetrahedrite were surrounded by a skin of chalcopyrite, from which, as a foundation, the quartz had crystallized radially outward (see Pl. XI, C). The high-grade ore may run about 200 ounces of silver. On the Dives claim there is a solid vein of barite, 6 to 7 feet wide, on the hanging wall of the productive lode. Its relation to the latter was not determined. Its presence and the occurrence of barite within the ore body

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are perhaps connected with the Potomac lode, which is known to carry barite, and should join the North Star lode from the north at about this point. Barite was not recognized in the ore of the North Star mine.

The country rock of the Dives is that of the North Star. It shows some alteration close to the ore bodies, being bleached in color, traversed by veinlets of quartz, and full of minute cubical crystals of pyrite and occasionally specks of galena. The microscope shows that it has undergone entire metasomatic recrystallization and consists chiefly of quartz, sericite, and pyrite.

The Dives was worked on a lease in 1899, the ore being treated in the North Star (Crooke) mill. In 1900 it was idle.

The Mountaineer and Lookout mines have not proved steadily productive claims, although in the Mint report for 1891 the Lookout is credited with a production of $27,152. Both are now idle. The tunnel of the latter is run in Algonkian schists, just beneath their contact with the overlying volcanic rocks of the San Juan series. The schists are shattered and decomposed, and the deposit appears to be very bunchy and irregular. The ore shows galena, chalcopyrite, and pyrite. The Mountaineer is said to have been located by prospectors from New Mexico in 1870. At least three veins can be seen cropping in the steep bluffs of San Juan breccia above the Lookout tunnel, and apparently converging just south of the tunnel mouth in what is locally termed a "blow-out." This is a mass of shattered limestone (probably the Ouray limestone (Devonian), which overlies unconformably the Algonkian schists south of the Highland Mary mine) and fragments of schist and andesite, cemented by comminuted andesitic material. Some of the limestone fragments are surrounded by envelopes of hematite. The whole mass is somewhat mineralized and is traversed by quartz stringers. The origin of this area of local disturbance is not certainly known. The original shattering may have been due to the movements which formed the veins that converge at this point. There has, however, been some recent movement of a landslip character, which has tended to obscure the original relationships.

Big Giant lode and others.—In Big Giant Gulch are several lodes which may be conveniently described in connection with the North Star lode. The most important of these is the one on which the Potomac claim is located. Some work has been done on this claim, and also on the Big Giant, which appears to be on the same lode. On the latter claim the lode is apparently a stringer lead, without any considerable gouge and carrying much chalcopyrite in its ore. It dips southwest at from 75° to 80°. A small mill was erected on this claim, but the mine was not successful, and was idle in 1899. Toward the southeast this lode passes over the northern shoulder of Big Giant Peak and is supposed to join the North Star vein in the Dives claim. There are other lodes in this gulch, two of which are shown on the map, but they have not proved to possess any value.

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Little Giant lode.—This lode, which lies between Big Giant and Arrastra gulches, has not been worked for many years, and its chief interest at present is a historical one. Discovered by Miles T. Johnson in 1871, it was the first mine to be opened in the district, and, in contrast with the present mines in the vicinity, produced a gold ore. Such portions of this ore as were not shipped to Pueblo in the crude state were originally treated in arrastras. About 27 tons were treated in this way and yielded $150 per ton. In 1872 the Little Giant Company was formed in Chicago to work the mine, and in the following year the company erected a mill equipped with a Dodge crusher, ball pulverizer, and 5 stamps. Power was supplied by a 12-horsepower engine. The mill was constructed 1,000 feet below the mine opening and the ore was brought down by the pioneer wire-rope tramway of the region. About 100 tons of ore were milled this year, producing about $14,500. The saving is said to have been about 65 per cent of the assay value. The mine became involved in litigation, and this, coupled with the diminution of the pay shoot, led to its abandonment.

The strike of the vein is N. 40° W., and its dip southwest. The pay streak is said to have been about 8 inches wide.

LODES OF CUNNINGHAM GULCH.

General.—Cunningham Gulch, named from one of the pioneers of Baker's company, is the largest of the various side gulches which open on the Animas River above Silverton. At an early date it was the scene of mining activity, and then gave promise of a development which has not yet been fulfilled. In 1899 and 1900 a little work was in progress on the Pride of the West, but otherwise the gulch above its junction with Stony Gulch contained no working mines. Above the Green Mountain mine the bottom of the gulch is excavated in the Algonkian schists, which immediately underlie considerable areas of the volcanic rocks of the quadrangle, but are seldom exposed in its central portion. The San Juan and Silverton formations lie upon the characteristically uneven erosion surface of the older schists. The lodes traverse both the schists and the overlying volcanic rocks, and thus afford opportunity for studying the changes, if any, that take place in the lodes when they pass from the older to the much younger formations. This investigation, however, is unfortunately seriously handicapped by the abandonment of most of the old workings, which has rendered many of them inaccessible. The general course of most of the lodes in Cunningham Gulch is between N. 30° W. and N. 40° W. The Highland Mary vein, however, is about N. 62° W., and still other lodes run more nearly north and south.

Highland Mary mine.—This mine has it workings in the ancient schists at the point where Cunningham Gulch, rising by an abrupt ascent to a higher level, loses its narrow linear character. The schists which compose the country rock vary somewhat in mineralogical composition, but the most common facies is an ordinary hornblende-schist

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Possible People Information 2
Person Overview 2
Date of Birth Summary 2
SSN Summary 2
Name Variations 2
Addresses 3
Hunting & Fishing Licenses 5
Voter Registrations 5
Phone Numbers 5
Possible Asset Information 6
Real Property Tax Assessor Records 6
Real Property Transactions 7
Vehicle Registrations 9
Possible Business & Employment 9
Corporate Records & Business Registrations 9
Full-Text Documents 10
All Full-Text Documents 10
Possible Relatives & Household Members 150
Household Records 150
Possible Named Parties 151
People Associations 151
Business Associations 153
No Documents Found 153
No Documents Were Found In These Sources 153
Permissible Uses and FCRA Disclaimer 153
Permissible Uses 153

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Possible People Information

Person Overview

DANIEL M LEISLE

369 N SEA LAKE LN

PONTE VEDRA BEACH, FL 32082-4756 | SAINT JOHNS County

Phone Number(s):

904-285-4747

501-219-2651

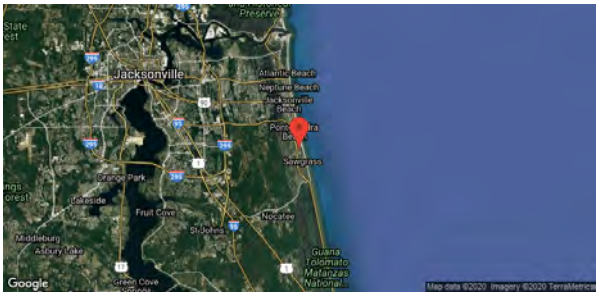
904-280-7976

SSN:

522-29-XXXX - issued in CO in 1980-1981

DOB:

12/XX/1964 (Age: 55)



Date of Birth Summary

Date of Birth	Source
12/XX/1964 (Age: 55)	Address Historical | People Find | People Historical #1 | People Historical #2 | People Household

SSN Summary

SSN	Source
522-29-XXXX - issued in CO in 1980-1981	People Find | People Historical #1 | People Historical #2 | People Historical #3 | People Historical #4 | People Historical #5

Name Variations

Name	Source
DAN LEISLE	People Find
DANIEL LEISLE	People Find | People Historical
DANIEL MARK LEISLE	People Find | People Historical #1 | People Historical #2 | People Historical #3
D LEISLE	People Find

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M LEISLE DANIEL	People Find

Addresses

Address	
369 N SEA LAKE LN, PONTE VEDRA BEACH, FL 32082-4756 | SAINT JOHNS County	
Reported 01/01/2003 - 10/23/2019	
By Motor Vehicle 09/20/2016 - 11/28/2018	Motor Vehicle #1 | Motor Vehicle #2 | Motor Vehicle #3 | Motor Vehicle #4
By People Household 01/01/2003 - 11/30/2012	People Household
By People Find 09/12/2003 - 09/12/2003	People Find
By Address Historical	Address Historical
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2 | Real Property Deeds #3 | Real Property Deeds #4 | Real Property Deeds #5 | Real Property Deeds #6 | Real Property Deeds #7 | Real Property Deeds #8 | Real Property Deeds #9 | Real Property Deeds #10
By Real Property Tax Assessor	Real Property Tax Assessor #1 | Real Property Tax Assessor #2 | Real Property Tax Assessor #3
By Voters Registration	Voters Registration
PO BOX 444, SILVERTON, CO 81433-0444 | SAN JUAN County	
Reported 04/12/2018 - 04/12/2018	
By People Find 04/12/2018 - 04/12/2018	People Find
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2
By Real Property Tax Assessor	Real Property Tax Assessor #1 | Real Property Tax Assessor #2 | Real Property Tax Assessor #3 | Real Property Tax Assessor #4 | Real Property Tax Assessor #5 | Real Property Tax Assessor #6 | Real Property Tax Assessor #7 | Real Property Tax Assessor #8 | Real Property Tax Assessor #9 | Real Property Tax Assessor #10 | Real Property Tax Assessor #11 | Real Property Tax Assessor #12 | Real Property Tax Assessor #13 | Real Property Tax Assessor #14 | Real Property Tax Assessor #15 | Real Property Tax Assessor #16 | Real Property Tax Assessor #17 | Real Property Tax Assessor #18 | Real Property Tax Assessor #19 | Real Property Tax Assessor #20 | Real Property Tax Assessor #21
301 E 32ND ST, DURANGO, CO 81301-6011 | LA PLATA County	
Reported 01/01/1991 - 11/30/2014	
By People Household 01/01/1991 - 11/30/2014	People Household
By People Find 10/01/1999 - 10/01/1999	People Find
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2

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By Real Property Tax Assessor	Real Property Tax Assessor #1 | Real Property Tax Assessor #2
735 E 3RD ST, DURANGO, CO 81301-5758 | LA PLATA County	
Reported 01/01/2001 - 11/30/2012	
By People Household 01/01/2001 - 11/30/2012	People Household
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2
By Real Property Tax Assessor	Real Property Tax Assessor #1 | Real Property Tax Assessor #2
402 W 28TH ST, DURANGO, CO 81301-4108 | LA PLATA County	
Reported 01/01/2004 - 08/31/2011	
By People Household 01/01/2004 - 08/31/2011	People Household
By Real Property Tax Assessor	Real Property Tax Assessor #1 | Real Property Tax Assessor #2 | Real Property Tax Assessor #3
50827 HIGHWAY 550 APT 352, DURANGO, CO 81301-9602 | SAN JUAN County	
Reported 01/01/1996 - 01/24/2003	
By People Find 11/13/2000 - 11/13/2000	People Find
By People Historical 01/01/1996 - 12/31/1996	People Historical
12 CHERRY CREEK CV # CO, LITTLE ROCK, AR 72212-2005 | PULASKI County	
Reported 12/01/1997 - 01/23/2003	
By People Find 12/01/1997 - 12/01/1997	People Find
By Real Property Deeds	Real Property Deeds
25 HARROW DR, COLONIA, NJ 07067-2605 | MIDDLESEX County	
Reported 07/17/2001 - 01/23/2003	
By People Find 07/17/2001 - 07/17/2001	People Find
By People Historical	People Historical
4 HIGHPOINT, CEDAR GROVE, NJ 07009-1972 | ESSEX County	
Reported 01/01/1995 - 01/23/2003	
By People Find 07/17/2001 - 07/17/2001	People Find
By People Historical 01/01/1995 - 12/31/1995	People Historical
55 SWAN DR, MASSAPEQUA, NY 11758-7930 | NASSAU County	
Reported 01/01/1996 - 12/31/1996	
By People Historical 01/01/1996 - 12/31/1996	People Historical
By Real Property Deeds	Real Property Deeds
19 POND VIEW DR, AUBURN, NH 03032-3542 | ROCKINGHAM County	
Reported 01/01/1993 - 12/31/1995	
By People Historical 01/01/1993 - 12/31/1995	People Historical #1 | People Historical #2
6 HASTINGS RD, TRENTON, NJ 08620-1522 | MERCER County	
Reported 01/01/1992 - 12/31/1992	
By People Historical 01/01/1992 - 12/31/1992	People Historical
412 MERCER AVE, SPRING LAKE, NJ 07762-1229 | MONMOUTH County	
Reported 01/01/1990 - 12/31/1990	
By People Historical 01/01/1990 - 12/31/1990	People Historical

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5214 WASHINGTON PL, SAINT LOUIS, MO 63108-1117 | SAINT LOUIS CITY County	
Reported 01/01/1987 - 12/31/1987	
By People Historical 01/01/1987 - 12/31/1987	People Historical
40 FORREST GROVES LN # 2, DURANGO, CO 81301-8354 | LA PLATA County	
Reported N/A	
By Real Property Deeds	Real Property Deeds
By Real Property Tax Assessor	Real Property Tax Assessor #1 | Real Property Tax Assessor #2 | Real Property Tax Assessor #3
3028 HAVEN AVE, OCEAN CITY, NJ 08226-2245 | CAPE MAY County	
Reported N/A	
By People Historical	People Historical
60 FORREST GROVES LN, DURANGO, CO 81301-8354 | LA PLATA County	
Reported N/A	
By Real Property Deeds	Real Property Deeds
1043 MINERAL ST, SILVERTON, CO 81433-5082 | SAN JUAN County	
Reported N/A	
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2
By Real Property Tax Assessor	Real Property Tax Assessor
1038 BLAIR ST, SILVERTON, CO 81433 | SAN JUAN County	
Reported N/A	
By Real Property Tax Assessor	Real Property Tax Assessor
PO BOX 827, SILVERTON, CO 81433-0827 | SAN JUAN County	
Reported N/A	
By Real Property Deeds	Real Property Deeds
PONTE VEDRA BEACH, FL 32082 | SAINT JOHNS County	
Reported N/A	
By Real Property Deeds	Real Property Deeds

Hunting & Fishing Licenses

Permit Class	State	Confidence Score	View Full Text
FISH	FLORIDA	99%	Full-Text

Voter Registrations

Political Party	Last Voted Date	Confidence Score	View Full Text
REPUBLICAN	11/06/2018	94%	Full-Text

Phone Numbers

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Phone	Source
904-285-4747	People Find | People Household
501-219-2651	People Find
904-280-7976	People Find
970-387-0111	People Find
383-9265	People Historical

Possible Asset Information

Real Property Tax Assessor Records

Property Address	Assessed Total Value	Tax Year	Confidence Score	View Full Text
369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756	$670,862.00	2018	99%	Full-Text
301 E 32ND ST DURANGO, CO 81301-6011	$18,570.00	2018	99%	Full-Text
1038 BLAIR ST SILVERTON, CO 81433	$12,870.00	2018	99%	Full-Text
735 E 3RD ST DURANGO, CO 81301-5758	$26,520.00	2018	99%	Full-Text
1043 MINERAL ST SILVERTON, CO 81433-5082	$14,014.00	2018	77%	Full-Text
40 FORREST GROVES LN DURANGO, CO 81301-8354	$13,590.00	2018	99%	Full-Text
	$13,800.00	2018	99%	Full-Text
402 W 28TH ST DURANGO, CO 81301-4108	$26,200.00	2018	99%	Full-Text

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Address	Assessed Total Value	Tax Year	Confidence Score	View Full Text
402 W 28TH ST DURANGO, CO 81301-4108	$24,990.00	2018	99%	Full-Text
	$14,080.00	2012	99%	Full-Text
	$280.00	2012	99%	Full-Text
	$1,500.00	2012	99%	Full-Text
	$280.00	2012	99%	Full-Text
40 FORREST GROVES LN 2 DURANGO, CO 81301-8354	$14,010.00	2012	99%	Full-Text
	$1,500.00	2011	99%	Full-Text
402 W 28TH ST DURANGO, CO 81301-4108	$22,760.00	2011	99%	Full-Text
301 E 32ND ST DURANGO, CO 81301-6011	$16,900.00	2011	99%	Full-Text
735 E 3RD ST DURANGO, CO 81301-5758	$24,580.00	2011	99%	Full-Text
40 FORREST GROVES LN 2 DURANGO, CO 81301-8354	$14,010.00	2011	99%	Full-Text
	$14,080.00	2011	99%	Full-Text
	$280.00	2011	99%	Full-Text
		2008	99%	Full-Text
		2008	99%	Full-Text
		2008	99%	Full-Text
369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756	$180,000.00	2003	99%	Full-Text

Real Property Transactions

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Address	Sale Price	Mortgage Amount	Recording Date	Confidence Score	View Full Text
301 E 32ND ST DURANGO, CO 81301-6011			12/30/2019	99%	Full-Text
369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756		$245,000.00	03/06/2013	97%	Full-Text
CO 32082			01/16/2013	99%	Full-Text
60 FORREST GROVES LN DURANGO, CO 81301-8354			01/16/2013	99%	Full-Text
735 E 3RD ST DURANGO, CO 81301-5758		$147,500.00	11/13/2012	80%	Full-Text
1043 MINERAL ST SILVERTON, CO 81433	$90,000.00		12/27/2011	99%	Full-Text
369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756		$280,000.00	05/24/2011	99%	Full-Text
MINERAL ST SILVERTON, CO 81433	$50,300.00	$40,000.00	06/26/2009	99%	Full-Text
369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756		$297,070.00	03/20/2009	99%	Full-Text
CO			11/17/2005	85%	Full-Text
CO			2005	82%	Full-Text
40 FORREST GROVES LN UNIT 2 DURANGO, CO 81301-8354			2005	74%	Full-Text

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Property Address	Sale Price	Mortgage Amount	Recording Date	Confidence Score	View Full Text
735 E 3RD ST DURANGO, CO 81301-5758		$80,000.00	07/15/2004	80%	Full-Text
301 E 32ND ST DURANGO, CO 81301-6011		$90,000.00	06/02/2004	99%	Full-Text
369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756	$660,000.00	$322,700.00	07/22/2003	99%	Full-Text
369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756	$660,000.00	$322,700.00	07/22/2003	99%	Full-Text
12 CHERRY CREEK CV LITTLE ROCK, AR 72212-2005		$50,000.00	02/04/2002	99%	Full-Text
55 SWAN DR MASSAPEQUA, NY 11758-7930	$248,500.00	$223,650.00	07/02/1996	97%	Full-Text
CO	$4,500.00			85%	Full-Text

Vehicle Registrations

Year	Make	Model	Registration Date	Confidence Score	View Full Text
Current Motor Vehicles					
2009	BUICK	ENCLAVE	11/28/2018	99%	Full-Text
2005	ACURA	TL	11/13/2015	99%	Full-Text
2005	HONDA	ACCORD	04/24/2012	99%	Full-Text
Historical Motor Vehicles					
1998	FORD	E150 VANS		99%	Full-Text

Possible Business & Employment

Corporate Records & Business Registrations

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Business Name	Business Address	Confidence Score	View Full Text
FNTG NATIONAL RECORD CENTERS, INC.	C/O MADELINE G. M. LOVEJOY;3210 EL CAMINO REAL STE 200 IRVINE, CA 92602	85%	Full-Text
FNTG NATIONAL RECORD CENTERS, INC.	601 RIVERSIDE AVE JACKSONVILLE, FL 32204	66%	Full-Text
FNTG NATIONAL RECORD CENTERS, INC.		85%	Full-Text
FNTG NATIONAL RECORD CENTERS, INC.	601 RIVERSIDE AVE 5TH FLOOR TAX JACKSONVILLE, FL 32204, USA	65%	Full-Text
FNTG NATIONAL RECORD CENTERS, INC.	3210 EL CAMINO REAL, STE. 200 IRVINE, CA 92602	85%	Full-Text

Full-Text Documents

All Full-Text Documents

Hunting & Fishing Licenses (1)

To Summary

Hunting and Fishing Permit

Source Information

State:	FL
Date Acquired:	08/01/2012
Information Current Through:	01/10/2020
Database Last Updated:	03/05/2020
Update Frequency:	ANNUAL
Current Date:	08/12/2020

Permit Information

Permit Class:	FISH
Permit Class:	SALTNOOK
Permit Date:	03/17/2012

Name and Personal Information

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Name:	DANIEL M LEISLE
Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Home Phone:	904-233-1421

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Voter Registrations (1)

To Summary

Voter Registration Record

Source Information

Information Current Through:	05/19/2020
Database Last Updated:	07/10/2020
Update Frequency:	ANNUAL
Current Date:	08/12/2020

Name and Personal Information

Name:	DANIEL M LEISLE
Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756

Voter History

Primary 2006	VOTED
General 2006	VOTED
Primary 2012	VOTED
General 2012	VOTED
Pres Primary 2012	VOTED
Primary 2010	VOTED
General 2010	VOTED
Other 2009	VOTED
Primary 2008	VOTED
Other 2008	VOTED
Pres Primary 2008	VOTED
Last Date Voted:	11/06/2018

Registration Information

Voter Identification Number:	108054060
Registration Date:	07/17/2003

Demographic Information

Date of Birth:	12/XX/1964
Age:	55-64
Gender:	MALE
Political Party:	REPUBLICAN

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Historical People Records (5)

To Summary

People Historical

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Individual Information

Name:	LEISLE, DANIEL MARK
SSN:	522-29-XXXX
On File Since:	02/01/1986
Phone Number 1:	383-9265

Historical Address Information

Address 1:	5214 WASHINGTON PL SAINT LOUIS, MO 63108-1117
Address Last Reported:	1987
Address Type:	STREET OR RESIDENTIAL ADDRESS

End of Document

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To Summary

People Historical

Individual Information

Name:	LEISLE, DANIEL M
SSN:	522-29-XXXX
On File Since:	02/01/1993

Historical Address Information

Address 1:	19 POND VIEW DR AUBURN, NH 03032
Address Last Reported:	1993

End of Document

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To Summary

People Historical

Individual Information

Name:	LEISLE, DANIEL
SSN:	522-29-XXXX
Date of Birth:	12/XX/1964
On File Since:	02/01/1996

Historical Address Information

Address 1:	50827 HIGHWAY 550 # 352 DURANGO, CO 81301-9602
Address Last Reported:	1996
Address Type:	STREET OR RESIDENTIAL ADDRESS

End of Document

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To Summary

People Historical

Individual Information

Historical Address Information

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Name:	LEISLE, DANIEL MARK	**Address 1:**	55 SWAN DR MASSAPEQUA, NY 11758-7930
SSN:	522-29-XXXX	**Address Last Reported:**	1996
Date of Birth:	12/XX/1964	**Address Type:**	STREET OR RESIDENTIAL ADDRESS
On File Since:	09/01/1988	**Address 2:**	4 HIGHPOINT CEDAR GROVE, NJ 07009-1972
		Address Last Reported:	1995
		Address Type:	STREET OR RESIDENTIAL ADDRESS
		Address 3:	25 HARROW DR COLONIA, NJ 07067-2605
		Address Type:	STREET OR RESIDENTIAL ADDRESS
		Address 4:	6 HASTINGS RD YARDVILLE, NJ 08620-1522
		Address Last Reported:	1992
		Address Type:	STREET OR RESIDENTIAL ADDRESS
		Address 5:	412 MERCER AVE # 2 SPRING LAKE, NJ 07762-1229
		Address Last Reported:	1990
		Address Type:	STREET OR RESIDENTIAL ADDRESS
		Address 6:	3028 HAVEN AVE OCEAN CITY, NJ 08226-2245
		Address Type:	STREET OR RESIDENTIAL ADDRESS

End of Document

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To Summary

People Historical

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Individual Information

Name:	LEISLE, DANIEL MARK
SSN:	522-29-XXXX
On File Since:	11/01/1995

Historical Address Information

Address 1:	19 POND VIEW DR AUBURN, NH 03032
Address Last Reported:	1995

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Historical Address Records (1)

To Summary

Address Historical

Individual Information

Name:	LEISLE, DANIEL M
Date of Birth:	12/XX/1964

Historical Address Information

Address:	369 N SEA LAKE LN PONTE VEDRA, FL 32082-4756

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People Find Records (1)

To Summary

People Finder - Historic Tracker Record

Source Information

Information Current Through:	06/30/2020
Database Last Updated:	07/07/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	TRANS UNION

Last Known Address Information

Current Address:	PO BOX 444 SILVERTON, CO 81433-0444
Phone Number 1:	970-387-0111
Phone Number 2:	904-280-7976
Address First Reported:	04/12/2018

Individual Information

Name:	LEISLE, DANIEL MARK
Also Known As:	LEISLE, DANIEL M DANIEL, M LEISLE

Other Address Information

Previous Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	LEISLE, DANIEL LEISLE, D LEISLE, DAN
SSN:	522-29-XXXX
Date of Birth:	12/XX/1964
On File Since:	09/01/1988

Phone Number 1:	904-285-4747
Phone Number 2:	501-219-2651
Address First Reported:	09/12/2003
Previous Address:	25 HARROW DR COLONIA, NJ 07067-2605
Address First Reported:	07/17/2001
Previous Address:	4 HIGHPOINT CEDAR GROVE, NJ 07009-1972
Address First Reported:	07/17/2001
Previous Address:	50827 HIGHWAY 550 352 DURANGO, CO 81301-9602
Address First Reported:	11/13/2000
Previous Address:	301 E 32ND ST DURANGO, CO 81301-6011
Address First Reported:	10/01/1999
Previous Address:	12 CHERRY CREEK CV LITTLE ROCK, AR 72212-2005
Address First Reported:	12/01/1997

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Real Property Tax Assessor Records (25)

To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	11/04/2019
Owner Information Current Through:	06/01/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE DANIEL M
	LEISLE LEIGH
Owner Relationship:	HUSBAND/WIFE

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Absentee Owner:	OWNER OCCUPIED
Property Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756

Property Information

County:	ST. JOHNS
Assessor's Parcel Number:	062141-0020
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Zoning:	PSD
Homestead Exempt:	HOMEOWNER EXEMPTION
Lot Size:	10890
Lot Acreage:	0.2500
Municipality:	PALM VALLEY AREA & N.W. CNTY
Subdivision:	PONTE VEDRA/SEA ESTATES
Legal Description:	43/33-37 PONTE VEDRA BY THE SEA ESTATES LOT 2 OR2002/913
Lot Number:	2
Range:	29E
Township:	03S
Section:	43

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$175,000.00
Calculated Improvement Value:	$607,849.00
Calculated Total Value:	$782,849.00
Assessed Total Value:	$670,862.00
Market Land Value:	$175,000.00
Market Improvement Value:	$607,849.00
Market Total Value:	$782,849.00
Valuation Method:	MARKET
Tax Amount:	$8,645.32
Tax Code Area:	0300

Building/Improvement Characteristics

Building Type:	SINGLE FAMILY

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Number of Buildings:	1
Year Built:	20030000
Total Area:	10890UT
Living Square Feet:	3849
Number of Bedrooms:	4
Number of Bathrooms:	4.00
Full Baths:	4
Fireplace:	YES
Garage Type:	FINISHED GARAGE
Number of Stories:	1.50
Number of Units:	1
Construction Type:	MASONRY
Construction Quality:	EXCELLENT
Exterior Wall Type:	CONCRETE BLOCK/STUCCO
Roof Type:	GABLE/HIP
Foundation Type:	CONCRETE
Heat:	HOT AIR
A/C Type:	AC CENTRAL

Last Market Sale Information

Sale Date:	07/14/2003
Seller Name:	BEAZER HOMES CORP
Sale Price:	$660,000.00
Deed Type:	GRANT DEED
Type of Sale:	SUBDIVISION/NEW CONSTRUCTION
Mortgage Amount:	$322,700.00
Mortgage Loan Type:	CONVENTIONAL
Mortgage Term:	30 YEARS
Mortgage Deed Type:	MORTGAGE DEED
Lender Name:	WELLS FARGO HM MTG INC
2nd Mortgage Amount:	$40,000.00
2nd Mortgage Type:	CONVENTIONAL
2nd Deed Type:	MORTGAGE DEED
Recording Date:	07/22/2003
Document Number:	51526
Recording Book/Page:	BOOK 2002, PAGE 913
Title Company:	FIDELITY TITLE

Previous Transaction Information

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Sale Date:	09/20/2002
Sale Price:	$467,000.00
Type of Sale:	RESALE
Multiple Parcel Sale:	MULTIPLE PARCEL SALE
Number of Parcels:	Y Y
Recording Date:	10/01/2002
Recording Book/Page:	BOOK 1822, PAGE 1254

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2018
Calculated Land Value:	$150,000.00
Calculated Improvement Value:	$545,802.00
Calculated Total Value:	$695,802.00
Assessed Total Value:	$635,300.00
Assessor's Parcel Number:	062141-0020
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	LEISLE DANIEL M, LEISLE LEIGH
Property Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Historical Tax Assessor Record: 2.	
Tax Year:	2016
Calculated Land Value:	$140,000.00
Calculated Improvement Value:	$497,285.00
Calculated Total Value:	$637,285.00
Assessed Total Value:	$622,233.00
Assessor's Parcel Number:	062141-0020
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	LEISLE DANIEL M, LEISLE LEIGH
Property Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Historical Tax Assessor Record: 3.	
Tax Year:	2016

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Land Value:	$140,000.00
Calculated Improvement Value:	$478,420.00
Calculated Total Value:	$618,420.00
Assessed Total Value:	$609,435.00
Assessor's Parcel Number:	062141-0020
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	LEISLE DANIEL M, LEISLE LEIGH
Property Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$140,000.00
Calculated Improvement Value:	$483,795.00
Calculated Total Value:	$623,795.00
Assessed Total Value:	$605,199.00
Assessor's Parcel Number:	062141-0020
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	LEISLE DANIEL M, LEISLE LEIGH
Property Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$140,000.00
Calculated Improvement Value:	$460,396.00
Calculated Total Value:	$600,396.00
Assessed Total Value:	$600,396.00
Assessor's Parcel Number:	062141-0020
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	LEISLE DANIEL M, LEISLE LEIGH
Property Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Historical Tax Assessor Record: 6.	
Tax Year:	2013
Calculated Land Value:	$140,000.00
Calculated Improvement Value:	$465,455.00
Calculated Total Value:	$605,455.00
Assessed Total Value:	$605,455.00
Assessor's Parcel Number:	062141-0020
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	LEISLE DANIEL M, LEISLE LEIGH
Property Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Historical Tax Assessor Record: 7.	
Tax Year:	2012
Calculated Land Value:	$140,000.00
Calculated Improvement Value:	$470,514.00
Calculated Total Value:	$610,514.00
Assessed Total Value:	$610,514.00
Assessor's Parcel Number:	062141-0020
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	LEISLE DANIEL M, LEISLE LEIGH
Property Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Historical Tax Assessor Record: 8.	
Tax Year:	2010
Calculated Land Value:	$155,000.00
Calculated Improvement Value:	$499,944.00
Calculated Total Value:	$654,944.00
Assessed Total Value:	$630,179.00
Assessor's Parcel Number:	062141-0020
Homestead Exempt:	HOMEOWNER EXEMPTION

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Absentee Owner:	OWNER OCCUPIED
Owner:	LEISLE DANIEL M, LEISLE LEIGH
Property Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Historical Tax Assessor Record: 9.	
Tax Year:	2010
Calculated Land Value:	$170,000.00
Calculated Improvement Value:	$505,262.00
Calculated Total Value:	$675,262.00
Assessed Total Value:	$620,866.00
Assessor's Parcel Number:	062141-0020
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	LEISLE DANIEL M, LEISLE LEIGH
Property Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Historical Tax Assessor Record: 10.	
Tax Year:	2009
Calculated Land Value:	$215,000.00
Calculated Improvement Value:	$510,581.00
Calculated Total Value:	$725,581.00
Assessed Total Value:	$604,543.00
Assessor's Parcel Number:	062141-0020
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	LEISLE DANIEL M, LEISLE LEIGH
Property Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Historical Tax Assessor Record: 11.	
Tax Year:	2008
Calculated Land Value:	$275,000.00
Calculated Improvement Value:	$510,581.00

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Calculated Total Value:	$785,581.00
Assessed Total Value:	$603,939.00
Assessor's Parcel Number:	062141-0020
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	LEISLE DANIEL M, LEISLE LEIGH
Property Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Historical Tax Assessor Record: 12.	
Tax Year:	2007
Calculated Land Value:	$275,000.00
Calculated Improvement Value:	$457,154.00
Calculated Total Value:	$732,154.00
Assessed Total Value:	$586,349.00
Assessor's Parcel Number:	062141-0020
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	LEISLE DANIEL M, LEISLE LEIGH
Property Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Historical Tax Assessor Record: 13.	
Tax Year:	2006
Calculated Land Value:	$250,000.00
Calculated Improvement Value:	$419,080.00
Calculated Total Value:	$669,080.00
Assessed Total Value:	$572,048.00
Assessor's Parcel Number:	062141-0020
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	LEISLE DANIEL M, LEISLE LEIGH
Property Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756

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ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH
	LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R004365
Property Type:	CONDOMINIUM
Land Use:	CONDOMINIUM
Lot Size:	43560
Lot Acreage:	1.0000
Subdivision:	SILVER SPRUCE CONDO
Legal Description:	SUBDIVISION: SILVER SPRUCE CONDO UNIT: 1 DESC: ON LOT 6 OF SILVER SPRUCE S/D
Lot Number:	6

Tax Assessment Information

Tax Year:	2012
Calculated Improvement Value:	$176,910.00
Calculated Total Value:	$176,910.00
Assessed Improvement Value:	$14,080.00
Assessed Total Value:	$14,080.00

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Market Improvement Value:	$176,910.00
Market Total Value:	$176,910.00
Valuation Method:	MARKET
Tax Amount:	$460.84
Tax Code Area:	1121

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	19460000
Total Area:	43560
Living Square Feet:	1425
Style/Shape:	TRADITIONAL

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN R
	LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R015642
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	8276
Lot Acreage:	0.1900
Subdivision:	ANIMAS CITY
Legal Description:	SUBDIVISION: ANIMAS CITY (DGO) BLOCK: 56 LOT: J AND:- LOT: THRU L AN ADD 301 E 32ND ST DURANGO 81301
Block Number:	56
Lot Number:	J

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$170,890.00
Calculated Improvement Value:	$87,070.00
Calculated Total Value:	$257,960.00
Assessed Land Value:	$12,300.00
Assessed Improvement Value:	$6,270.00
Assessed Total Value:	$18,570.00
Market Land Value:	$170,890.00
Market Improvement Value:	$87,070.00
Market Total Value:	$257,960.00
Valuation Method:	MARKET
Tax Amount:	$674.52
Tax Code Area:	1111

Building/Improvement Characteristics

Building Type:	SINGLE FAMILY
Number of Buildings:	1
Year Built:	19320000
Total Area:	8276RES IMPRV LAND
Living Square Feet:	654
Number of Bedrooms:	1
Number of Bathrooms:	1.00
Full Baths:	1
Style/Shape:	CONVENTIONAL
Heat:	CONVECTION

Last Market Sale Information

Sale Date:	02/26/1998

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Seller Name:	OWNER RECORD
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	1998
Document Number:	741523

Previous Transaction Information

Number of Parcels:	Y Y

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2018
Calculated Land Value:	$181,350.00
Calculated Improvement Value:	$91,540.00
Calculated Total Value:	$272,890.00
Assessed Total Value:	$19,520.00
Assessor's Parcel Number:	R015642
Owner:	MI CASA ES SU CASA LLC
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2017
Calculated Land Value:	$170,890.00
Calculated Improvement Value:	$87,070.00
Calculated Total Value:	$257,960.00
Assessed Total Value:	$18,570.00
Assessor's Parcel Number:	R015642
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2016
Calculated Land Value:	$147,640.00
Calculated Improvement Value:	$80,500.00
Calculated Total Value:	$228,140.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Assessed Total Value:	$18,160.00
Assessor's Parcel Number:	R015642
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$141,830.00
Calculated Improvement Value:	$67,710.00
Calculated Total Value:	$209,540.00
Assessed Total Value:	$16,680.00
Assessor's Parcel Number:	R015642
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$147,640.00
Calculated Improvement Value:	$80,500.00
Calculated Total Value:	$228,140.00
Assessed Total Value:	$18,160.00
Assessor's Parcel Number:	R015642
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2013
Calculated Land Value:	$141,830.00
Calculated Improvement Value:	$67,710.00
Calculated Total Value:	$209,540.00
Assessed Total Value:	$16,680.00
Assessor's Parcel Number:	R015642

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2012
Calculated Land Value:	$141,830.00
Calculated Improvement Value:	$70,520.00
Calculated Total Value:	$212,350.00
Assessed Total Value:	$16,900.00
Assessor's Parcel Number:	R015642
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE DANIEL M
	LEISLE STEVEN R
Property Address:	1038 BLAIR ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	SILVERTON, CO 81433-0444

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48291730350003
Property Type:	COMMERCIAL
Land Use:	OFFICE & RESIDENTIAL
Lot Size:	10000
Lot Acreage:	0.2296
Municipality:	TOWN OF SILVERTON
Subdivision:	TOWN/SILVERTON
Legal Description:	BLOCK 35 LOTS 5 - 6
Block Number:	35
Lot Number:	5

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$110,430.00
Calculated Improvement Value:	$69,570.00
Calculated Total Value:	$180,000.00
Assessed Land Value:	$7,896.00
Assessed Improvement Value:	$4,974.00
Assessed Total Value:	$12,870.00
Market Land Value:	$110,430.00
Market Improvement Value:	$69,570.00
Market Total Value:	$180,000.00
Valuation Method:	MARKET
Tax Amount:	$1,002.40
Tax Code Area:	112

Building/Improvement Characteristics

Building Type:	RESIDENTIAL
Number of Buildings:	2
Year Built:	19000000
Total Area:	6000010000
Living Square Feet:	955
Total Number of Rooms:	10
Number of Bedrooms:	4
Number of Bathrooms:	2.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Full Baths:	2
Garage Type:	DETACHED FRAME GARAGE
Style/Shape:	RANCH
Construction Type:	FRAME
Construction Quality:	AVERAGE
Roof Type:	GABLE
Heat:	FORCED AIR

Last Market Sale Information

Sale Date:	04/01/1972
Seller Name:	WHITE NORA & CLIFF
Sale Price:	$4,500.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE

Previous Transaction Information

Number of Parcels:	Y

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2017
Calculated Land Value:	$78,000.00
Calculated Improvement Value:	$320,000.00
Calculated Total Value:	$398,000.00
Assessed Total Value:	$22,324.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R
Property Address:	1038 EMPIRE ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2016
Calculated Land Value:	$78,000.00
Calculated Improvement Value:	$320,000.00
Calculated Total Value:	$398,000.00
Assessed Total Value:	$22,324.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Address:	1038 EMPIRE ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2015
Calculated Land Value:	$135,710.00
Calculated Improvement Value:	$52,794.00
Calculated Total Value:	$188,504.00
Assessed Total Value:	$18,816.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R
Property Address:	1038 EMPIRE ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$98,350.00
Calculated Improvement Value:	$113,453.00
Calculated Total Value:	$211,803.00
Assessed Total Value:	$20,982.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R
Property Address:	1038 EMPIRE ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$135,710.00
Calculated Improvement Value:	$52,794.00
Calculated Total Value:	$188,504.00
Assessed Total Value:	$18,816.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R
Property Address:	1038 EMPIRE ST SILVERTON, CO 81433

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2012
Calculated Land Value:	$98,350.00
Calculated Improvement Value:	$113,453.00
Calculated Total Value:	$211,803.00
Assessed Total Value:	$20,982.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R
Property Address:	1038 EMPIRE ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2012
Calculated Land Value:	$98,350.00
Calculated Improvement Value:	$113,453.00
Calculated Total Value:	$211,803.00
Assessed Total Value:	$21,501.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R
Property Address:	1038 EMPIRE ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 8.	
Tax Year:	2011
Calculated Land Value:	$103,500.00
Calculated Improvement Value:	$113,453.00
Calculated Total Value:	$216,953.00
Assessed Total Value:	$21,501.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R
Property Address:	1038 EMPIRE ST CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical Tax Assessor Record: 9.	
Tax Year:	2009
Calculated Land Value:	$115,000.00
Calculated Improvement Value:	$132,693.00
Calculated Total Value:	$247,693.00
Assessed Total Value:	$24,538.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R
Property Address:	1038 EMPIRE ST CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 10.	
Tax Year:	2008
Calculated Land Value:	$115,000.00
Calculated Improvement Value:	$132,693.00
Calculated Total Value:	$247,693.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R
Property Address:	1038 EMPIRE ST CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Owner Information

Owner(s):	LEISLE STEVEN R
	LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R004146
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	6011
Lot Acreage:	0.1380
Subdivision:	MOUNTAIN VIEW ADD
Legal Description:	SUBDIVISION: MOUNTAIN VIEW ADD BLOCK: 7 LOT: 24 THRU:- LOT: 26 LESS W 70', M V ADD 735 E 3RD ST DURANGO 81301
Block Number:	7
Lot Number:	24

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$175,730.00
Calculated Improvement Value:	$192,590.00
Calculated Total Value:	$368,320.00
Assessed Land Value:	$12,650.00
Assessed Improvement Value:	$13,870.00
Assessed Total Value:	$26,520.00
Market Land Value:	$175,730.00
Market Improvement Value:	$192,590.00
Market Total Value:	$368,320.00
Valuation Method:	MARKET
Tax Amount:	$963.28
Tax Code Area:	1111

Building/Improvement Characteristics

Building Type:	DUPLEX/TRIPLEX

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Number of Buildings:	1
Year Built:	19230000
Total Area:	6011RES DUPLEX/TRIPLEX
Living Square Feet:	1163
Number of Bedrooms:	3
Number of Bathrooms:	2.00
Full Baths:	2
Basement Square Feet:	791
Style/Shape:	CONVENTIONAL
Heat:	CONVECTION

Last Market Sale Information

Sale Date:	01/31/2000
Seller Name:	OWNER RECORD
Sale Price:	$111,000.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	2000
Document Number:	781506

Previous Transaction Information

Number of Parcels:	Y Y

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2018
Calculated Land Value:	$186,860.00
Calculated Improvement Value:	$206,840.00
Calculated Total Value:	$393,700.00
Assessed Total Value:	$28,150.00
Assessor's Parcel Number:	R004146
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2017
Calculated Land Value:	$175,730.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Improvement Value:	$192,590.00
Calculated Total Value:	$368,320.00
Assessed Total Value:	$26,520.00
Assessor's Parcel Number:	R004146
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2016
Calculated Land Value:	$151,970.00
Calculated Improvement Value:	$177,000.00
Calculated Total Value:	$328,970.00
Assessed Total Value:	$26,190.00
Assessor's Parcel Number:	R004146
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$151,970.00
Calculated Improvement Value:	$177,000.00
Calculated Total Value:	$328,970.00
Assessed Total Value:	$26,190.00
Assessor's Parcel Number:	R004146
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$146,030.00
Calculated Improvement Value:	$151,670.00
Calculated Total Value:	$297,700.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Assessed Total Value:	$23,690.00
Assessor's Parcel Number:	R004146
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2013
Calculated Land Value:	$146,030.00
Calculated Improvement Value:	$151,670.00
Calculated Total Value:	$297,700.00
Assessed Total Value:	$23,690.00
Assessor's Parcel Number:	R004146
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2012
Calculated Land Value:	$146,030.00
Calculated Improvement Value:	$162,850.00
Calculated Total Value:	$308,880.00
Assessed Total Value:	$24,580.00
Assessor's Parcel Number:	R004146
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH
	LEISLE DANIEL M
Ownership Rights:	TENANCY IN COMMON
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	5595-361-05-034
Property Type:	CONDOMINIUM
Land Use:	CONDOMINIUM
Lot Size:	43560
Lot Acreage:	1.0000
Subdivision:	SILVER SPRUCE CONDO
Legal Description:	SUBDIVISION: SILVER SPRUCE CONDO DESC: STORAGE UNIT CONDOS ON LOT 6 OF SILVER SPRUCE SUB.
Lot Number:	6
Range:	08
Township:	36
Section:	36

Tax Assessment Information

Tax Year:	2011
Calculated Improvement Value:	$18,870.00
Calculated Total Value:	$18,870.00
Assessed Improvement Value:	$1,500.00
Assessed Total Value:	$1,500.00
Market Improvement Value:	$18,870.00
Market Total Value:	$18,870.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Valuation Method:	MARKET
Tax Amount:	$48.08
Tax Code Area:	1121

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	19460000
Total Area:	43560
Style/Shape:	TRADITIONAL

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2010
Calculated Improvement Value:	$20,150.00
Calculated Total Value:	$20,150.00
Assessed Total Value:	$1,600.00
Assessor's Parcel Number:	5595-361-05-034
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2010
Calculated Improvement Value:	$18,870.00
Calculated Total Value:	$18,870.00
Assessed Total Value:	$1,500.00
Assessor's Parcel Number:	5595-361-05-034
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2009
Calculated Improvement Value:	$20,150.00
Calculated Total Value:	$20,150.00
Assessed Total Value:	$1,600.00
Assessor's Parcel Number:	5595-361-05-034
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2008
Calculated Improvement Value:	$20,430.00
Calculated Total Value:	$20,430.00
Assessed Total Value:	$1,630.00
Assessor's Parcel Number:	5595-361-05-034
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2007
Calculated Improvement Value:	$13,540.00
Calculated Total Value:	$13,540.00
Assessed Total Value:	$1,080.00
Assessor's Parcel Number:	5595-36-1-05-034
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2006
Calculated Improvement Value:	$13,540.00
Calculated Total Value:	$13,540.00
Assessed Total Value:	$1,080.00
Assessor's Parcel Number:	5595-36-1-05-034
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2003
Calculated Land Value:	$7,370.00
Calculated Improvement Value:	$10,480.00
Calculated Total Value:	$17,850.00
Assessed Total Value:	$1,420.00
Assessor's Parcel Number:	5595-36-1-05-034

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Owner:	LEISLE STEVEN RALPH & DANIEL M, 1038 EMPIRE ST
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN R
	LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	5665-173-14-005
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	7492
Lot Acreage:	0.1720
Subdivision:	ANIMAS CITY DGO
Legal Description:	SUBDIVISION: ANIMAS CITY (DGO) BLOCK: 1 LOT: 20A 402 W 28TH ST DURANGO 81301
Block Number:	1
Lot Number:	20A

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Tax Assessment Information

Tax Year:	2011
Calculated Land Value:	$149,450.00
Calculated Improvement Value:	$136,470.00
Calculated Total Value:	$285,920.00
Assessed Land Value:	$11,900.00
Assessed Improvement Value:	$10,860.00
Assessed Total Value:	$22,760.00
Market Land Value:	$149,450.00
Market Improvement Value:	$136,470.00
Market Total Value:	$285,920.00
Valuation Method:	MARKET
Tax Amount:	$658.64
Tax Code Area:	1111

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	19260000
Total Area:	7492
Living Square Feet:	1208
Style/Shape:	TRADITIONAL

Last Market Sale Information

Sale Date:	05/28/1999
Seller Name:	OWNER RECORD
Sale Price:	$117,500.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	1999
Document Number:	768774

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2010
Calculated Land Value:	$149,450.00
Calculated Improvement Value:	$136,470.00
Calculated Total Value:	$285,920.00
Assessed Total Value:	$22,760.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Assessor's Parcel Number:	5665-173-14-005
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2010
Calculated Land Value:	$187,430.00
Calculated Improvement Value:	$137,580.00
Calculated Total Value:	$325,010.00
Assessed Total Value:	$25,870.00
Assessor's Parcel Number:	5665-173-14-005
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2009
Calculated Land Value:	$187,430.00
Calculated Improvement Value:	$137,580.00
Calculated Total Value:	$325,010.00
Assessed Total Value:	$25,870.00
Assessor's Parcel Number:	5665-173-14-005
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2009
Calculated Land Value:	$187,430.00
Calculated Improvement Value:	$137,580.00
Calculated Total Value:	$325,010.00
Assessed Total Value:	$25,870.00
Assessor's Parcel Number:	5665-173-14-005
Owner:	LEISLE STEVEN R, LEISLE DANIEL M

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2008
Calculated Land Value:	$156,800.00
Calculated Improvement Value:	$122,520.00
Calculated Total Value:	$279,320.00
Assessed Total Value:	$22,230.00
Assessor's Parcel Number:	5665-173-14-005
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2007
Calculated Land Value:	$156,800.00
Calculated Improvement Value:	$122,520.00
Calculated Total Value:	$279,320.00
Assessed Total Value:	$22,230.00
Assessor's Parcel Number:	5665-17-3-14-005
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2006
Calculated Land Value:	$156,800.00
Calculated Improvement Value:	$122,520.00
Calculated Total Value:	$279,320.00
Assessed Total Value:	$22,230.00
Assessor's Parcel Number:	5665-17-3-14-005
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827
Historical Tax Assessor Record: 8.	
Tax Year:	2003
Calculated Land Value:	$71,070.00
Calculated Improvement Value:	$86,080.00
Calculated Total Value:	$157,150.00
Assessed Total Value:	$12,510.00
Assessor's Parcel Number:	5665-17-3-14-005
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	SITES JOHN D
	SREBACIC KAREN
Property Address:	1043 MINERAL ST SILVERTON, CO 81433-5082
Mailing Address:	PO BOX 683 SILVERTON, CO 81433-0683

Property Information

County:	SAN JUAN

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Assessor's Parcel Number:	48291730350011
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	3800
Lot Acreage:	0.0872
Municipality:	TOWN OF SILVERTON
Subdivision:	TOWN/SILVERTON
Legal Description:	BLOCK 35 N 1/2 OF LOT 21 & ALL OF LOT 22
Block Number:	35
Lot Number:	21

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$73,100.00
Calculated Improvement Value:	$122,900.00
Calculated Total Value:	$196,000.00
Assessed Land Value:	$5,227.00
Assessed Improvement Value:	$8,787.00
Assessed Total Value:	$14,014.00
Market Land Value:	$73,100.00
Market Improvement Value:	$122,900.00
Market Total Value:	$196,000.00
Valuation Method:	MARKET
Tax Amount:	$559.40
Tax Code Area:	112

Building/Improvement Characteristics

Building Type:	RESIDENTIAL
Number of Buildings:	1
Year Built:	18980000
Total Area:	2000003800
Living Square Feet:	1144
Total Number of Rooms:	7
Number of Bedrooms:	4
Number of Bathrooms:	1.00
Full Baths:	1
Garage Type:	ATTACHED FRAME GARAGE
Number of Stories:	1.50
Style/Shape:	TYPE UNKNOWN

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Construction Type:	FRAME
Construction Quality:	AVERAGE
Exterior Wall Type:	ALUMINUM
Roof Type:	GABLE
Foundation Type:	STONE
Heat:	FORCED AIR

Last Market Sale Information

Sale Date:	12/28/2012
Seller Name:	LEISLE STEVEN R & DANIEL M
Sale Price:	$146,200.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Mortgage Amount:	$147,800.00
Mortgage Loan Type:	CONVENTIONAL
Mortgage Term:	33 YEARS
Mortgage Deed Type:	DEED OF TRUST
Lender Name:	USDA RURAL HSNG SVC
Recording Date:	12/31/2012
Document Number:	148881
Title Company:	LAND TITLE GUARANTEE

Previous Transaction Information

Previous Document Number:	148290
Sale Date:	11/29/2011
Sale Price:	$90,000.00
Type of Sale:	RESALE
Number of Parcels:	Y Y
Recording Date:	12/27/2011

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2017
Calculated Land Value:	$64,380.00
Calculated Improvement Value:	$108,650.00
Calculated Total Value:	$173,030.00
Assessed Total Value:	$12,458.00
Assessor's Parcel Number:	48291730350011
Owner:	SITES JOHN D, SREBACIC KAREN

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Address:	1043 MINERAL ST SILVERTON, CO 81433
Mailing Address:	PO BOX 670 SILVERTON, CO 81433-0670
Historical Tax Assessor Record: 2.	
Tax Year:	2016
Calculated Land Value:	$64,380.00
Calculated Improvement Value:	$108,650.00
Calculated Total Value:	$173,030.00
Assessed Total Value:	$12,458.00
Assessor's Parcel Number:	48291730350011
Owner:	SITES JOHN D, SREBACIC KAREN
Property Address:	1043 MINERAL ST SILVERTON, CO 81433
Mailing Address:	PO BOX 670 SILVERTON, CO 81433-0670
Historical Tax Assessor Record: 3.	
Tax Year:	2015
Calculated Land Value:	$61,550.00
Calculated Improvement Value:	$108,050.00
Calculated Total Value:	$169,600.00
Assessed Total Value:	$13,500.00
Assessor's Parcel Number:	48291730350011
Owner:	SITES JOHN D, SREBACIC KAREN
Property Address:	1043 MINERAL ST SILVERTON, CO 81433
Mailing Address:	PO BOX 670 SILVERTON, CO 81433-0670
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$67,108.00
Calculated Improvement Value:	$60,992.00
Calculated Total Value:	$128,100.00
Assessed Total Value:	$10,197.00
Assessor's Parcel Number:	48291730350011
Owner:	SITES JOHN D, SREBACIC KAREN
Property Address:	1043 MINERAL ST SILVERTON, CO 81433

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	PO BOX 670 SILVERTON, CO 81433-0670
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$61,550.00
Calculated Improvement Value:	$108,050.00
Calculated Total Value:	$169,600.00
Assessed Total Value:	$13,500.00
Assessor's Parcel Number:	48291730350011
Owner:	SITES JOHN D, SREBACIC KAREN
Property Address:	1043 MINERAL ST SILVERTON, CO 81433
Mailing Address:	PO BOX 670 SILVERTON, CO 81433-0670
Historical Tax Assessor Record: 6.	
Tax Year:	2012
Calculated Land Value:	$67,108.00
Calculated Improvement Value:	$60,992.00
Calculated Total Value:	$128,100.00
Assessed Total Value:	$10,197.00
Assessor's Parcel Number:	48291730350011
Owner:	SITES JOHN D, SREBACIC KAREN
Property Address:	1043 MINERAL ST SILVERTON, CO 81433
Mailing Address:	PO BOX 670 SILVERTON, CO 81433-0670
Historical Tax Assessor Record: 7.	
Tax Year:	2012
Calculated Land Value:	$67,108.00
Calculated Improvement Value:	$60,992.00
Calculated Total Value:	$128,100.00
Assessed Total Value:	$11,488.00
Assessor's Parcel Number:	48291730350011
Owner:	SITES JOHN D, SREBACIC KAREN M
Property Address:	1043 MINERAL ST CO
Mailing Address:	PO BOX 670 SILVERTON, CO 81433-0670

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical Tax Assessor Record: 8.	
Tax Year:	2011
Calculated Land Value:	$69,920.00
Calculated Improvement Value:	$74,396.00
Calculated Total Value:	$144,316.00
Assessed Total Value:	$11,488.00
Assessor's Parcel Number:	48291730350011
Owner:	SITES JOHN D, SREBACIC KAREN M
Property Address:	1043 MINERAL ST CO
Mailing Address:	PO BOX 670 SILVERTON, CO 81433-0670
Historical Tax Assessor Record: 9.	
Tax Year:	2011
Calculated Land Value:	$69,920.00
Calculated Improvement Value:	$74,396.00
Calculated Total Value:	$144,316.00
Assessed Total Value:	$11,488.00
Assessor's Parcel Number:	48291730350011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	1043 MINERAL ST CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 10.	
Tax Year:	2009
Calculated Land Value:	$87,400.00
Calculated Improvement Value:	$97,890.00
Calculated Total Value:	$185,290.00
Assessed Total Value:	$14,749.00
Assessor's Parcel Number:	48291730350011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	1043 MINERAL ST CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 11.	
Tax Year:	2009

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Land Value:	$87,400.00
Calculated Improvement Value:	$97,890.00
Calculated Total Value:	$185,290.00
Assessed Total Value:	$14,749.00
Assessor's Parcel Number:	48291730350011
Absentee Owner:	OWNER OCCUPIED
Owner:	GAGNON KEVIN J
Property Address:	1043 MINERAL ST CO
Mailing Address:	1043 MINERAL ST SILVERTON, CO 81433
Historical Tax Assessor Record: 12.	
Tax Year:	2008
Calculated Land Value:	$87,400.00
Calculated Improvement Value:	$97,890.00
Calculated Total Value:	$185,290.00
Assessor's Parcel Number:	48291730350011
Owner:	GAGNON KEVIN J
Property Address:	1043 MINERAL ST CO
Mailing Address:	1043 MINERAL ST SILVERTON, CO 81433

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Owner(s):	LEISLE STEVEN R
	LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	5665-171-11-007
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	8276
Lot Acreage:	0.1900
Subdivision:	ANIMAS CITY DGO
Legal Description:	SUBDIVISION: ANIMAS CITY (DGO) BLOCK: 56 LOT: J AND:- LOT: THRU L AN ADD 301 E 32ND ST DURANGO 81301
Block Number:	56
Lot Number:	J

Tax Assessment Information

Tax Year:	2011
Calculated Land Value:	$141,830.00
Calculated Improvement Value:	$70,520.00
Calculated Total Value:	$212,350.00
Assessed Land Value:	$11,290.00
Assessed Improvement Value:	$5,610.00
Assessed Total Value:	$16,900.00
Market Land Value:	$141,830.00
Market Improvement Value:	$70,520.00
Market Total Value:	$212,350.00
Valuation Method:	MARKET
Tax Amount:	$489.08
Tax Code Area:	1111

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	19320000

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Total Area:	8276
Living Square Feet:	654
Style/Shape:	TRADITIONAL

Last Market Sale Information

Sale Date:	02/26/1998
Seller Name:	OWNER RECORD
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	1998
Document Number:	741523

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2010
Calculated Land Value:	$141,830.00
Calculated Improvement Value:	$70,520.00
Calculated Total Value:	$212,350.00
Assessed Total Value:	$16,900.00
Assessor's Parcel Number:	5665-171-11-007
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2010
Calculated Land Value:	$177,860.00
Calculated Improvement Value:	$71,080.00
Calculated Total Value:	$248,940.00
Assessed Total Value:	$19,820.00
Assessor's Parcel Number:	5665-171-11-007
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2009

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Land Value:	$177,860.00
Calculated Improvement Value:	$71,080.00
Calculated Total Value:	$248,940.00
Assessed Total Value:	$19,820.00
Assessor's Parcel Number:	5665-171-11-007
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2009
Calculated Land Value:	$177,860.00
Calculated Improvement Value:	$71,080.00
Calculated Total Value:	$248,940.00
Assessed Total Value:	$19,820.00
Assessor's Parcel Number:	5665-171-11-007
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2008
Calculated Land Value:	$148,800.00
Calculated Improvement Value:	$77,310.00
Calculated Total Value:	$226,110.00
Assessed Total Value:	$17,990.00
Assessor's Parcel Number:	5665-171-11-007
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2007
Calculated Land Value:	$148,800.00
Calculated Improvement Value:	$77,310.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Total Value:	$226,110.00
Assessed Total Value:	$17,990.00
Assessor's Parcel Number:	5665-17-1-11-007
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2006
Calculated Land Value:	$148,800.00
Calculated Improvement Value:	$77,310.00
Calculated Total Value:	$226,110.00
Assessed Total Value:	$17,990.00
Assessor's Parcel Number:	5665-17-1-11-007
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-4068
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827
Historical Tax Assessor Record: 8.	
Tax Year:	2003
Calculated Land Value:	$67,440.00
Calculated Improvement Value:	$52,030.00
Calculated Total Value:	$119,470.00
Assessed Total Value:	$9,510.00
Assessor's Parcel Number:	5665-17-1-11-007
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH
	LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R421189
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)
Lot Size:	610
Lot Acreage:	0.0140
Legal Description:	SECTION: 36 TOWNSHIP: 36 RANGE: 8 TR LOCATED IN LOT 5 (NW4 NE4)
Lot Number:	5
Range:	08
Township:	36
Section:	36

Tax Assessment Information

Tax Year:	2012
Calculated Land Value:	$980.00
Calculated Total Value:	$980.00
Assessed Land Value:	$280.00
Assessed Total Value:	$280.00
Market Land Value:	$980.00
Market Total Value:	$980.00
Valuation Method:	MARKET

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Tax Amount:	$14.16
Tax Code Area:	1121

Building/Improvement Characteristics

Total Area:	610

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH
	LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R434344
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	TOWNHOUSE/ROWHOUSE
Lot Size:	9845
Lot Acreage:	0.2260
Subdivision:	CAMP SILVER SPRUCE
Legal Description:	SUBDIVISION: CAMP SILVER SPRUCE LOTS 5 & 6 LOT: 6B DESC: PER PLAT 1059297 40 FORREST GROVES LN DURANGO 81301

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Lot Number:	5

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$45,940.00
Calculated Improvement Value:	$142,720.00
Calculated Total Value:	$188,660.00
Assessed Land Value:	$3,310.00
Assessed Improvement Value:	$10,280.00
Assessed Total Value:	$13,590.00
Market Land Value:	$45,940.00
Market Improvement Value:	$142,720.00
Market Total Value:	$188,660.00
Valuation Method:	MARKET
Tax Amount:	$586.56
Tax Code Area:	1121

Building/Improvement Characteristics

Building Type:	TOWNHOUSE
Number of Buildings:	1
Year Built:	19460000
Total Area:	9845RES IMPRV LAND
Living Square Feet:	1425
Number of Bedrooms:	2
Number of Bathrooms:	2.00
Full Baths:	2
Style/Shape:	CONVENTIONAL
Heat:	RADIANT ELECTRIC

Previous Transaction Information

Number of Parcels:	Y Y

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2018
Calculated Land Value:	$47,810.00
Calculated Improvement Value:	$154,460.00
Calculated Total Value:	$202,270.00
Assessed Total Value:	$14,460.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Assessor's Parcel Number:	R434344
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2017
Calculated Land Value:	$45,940.00
Calculated Improvement Value:	$142,720.00
Calculated Total Value:	$188,660.00
Assessed Total Value:	$13,590.00
Assessor's Parcel Number:	R434344
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2016
Calculated Land Value:	$45,000.00
Calculated Improvement Value:	$132,110.00
Calculated Total Value:	$177,110.00
Assessed Total Value:	$14,100.00
Assessor's Parcel Number:	R434344
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$45,940.00
Calculated Improvement Value:	$151,730.00
Calculated Total Value:	$197,670.00
Assessed Total Value:	$15,740.00
Assessor's Parcel Number:	R434344
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Address:	40 FORREST GROVES LN DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$45,000.00
Calculated Improvement Value:	$132,110.00
Calculated Total Value:	$177,110.00
Assessed Total Value:	$14,100.00
Assessor's Parcel Number:	R434344
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2013
Calculated Land Value:	$12,860.00
Calculated Improvement Value:	$165,530.00
Calculated Total Value:	$178,390.00
Assessed Total Value:	$16,910.00
Assessor's Parcel Number:	R434344
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary
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Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH
	LEISLE DANIEL M
Ownership Rights:	TENANCY IN COMMON
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R011066
Property Type:	CONDOMINIUM
Land Use:	CONDOMINIUM
Lot Size:	43560
Lot Acreage:	1.0000
Subdivision:	SILVER SPRUCE CONDO
Legal Description:	SUBDIVISION: SILVER SPRUCE CONDO DESC: STORAGE UNIT CONDOS ON LOT 6 OF SILVER SPRUCE SUB.
Lot Number:	6
Range:	08
Township:	36
Section:	36

Tax Assessment Information

Tax Year:	2012
Calculated Improvement Value:	$18,870.00
Calculated Total Value:	$18,870.00
Assessed Improvement Value:	$1,500.00
Assessed Total Value:	$1,500.00
Market Improvement Value:	$18,870.00
Market Total Value:	$18,870.00
Valuation Method:	MARKET
Tax Amount:	$49.08
Tax Code Area:	1121

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	19460000
Total Area:	43560
Style/Shape:	TRADITIONAL

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN R
	LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	5665-294-13-011
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	5992
Lot Acreage:	0.1376
Subdivision:	MOUNTAIN VIEW ADD

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Legal Description:	SUBDIVISION: MOUNTAIN VIEW ADD BLOCK: 7 LOT: 24 THRU:- LOT: 26 LESS W 70', M V ADD 735 E 3RD ST DURANGO 81301
Block Number:	7
Lot Number:	24

Tax Assessment Information

Tax Year:	2011
Calculated Land Value:	$146,030.00
Calculated Improvement Value:	$162,850.00
Calculated Total Value:	$308,880.00
Assessed Land Value:	$11,620.00
Assessed Improvement Value:	$12,960.00
Assessed Total Value:	$24,580.00
Market Land Value:	$146,030.00
Market Improvement Value:	$162,850.00
Market Total Value:	$308,880.00
Valuation Method:	MARKET
Tax Amount:	$711.32
Tax Code Area:	1111

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	19230000
Total Area:	6000005992
Living Square Feet:	1163
Style/Shape:	TRADITIONAL

Last Market Sale Information

Sale Date:	01/31/2000
Seller Name:	OWNER RECORD
Sale Price:	$111,000.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	2000
Document Number:	781506

Historical Tax Assessor Information

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical Tax Assessor Record: 1.	
Tax Year:	2010
Calculated Land Value:	$118,400.00
Calculated Improvement Value:	$221,540.00
Calculated Total Value:	$339,940.00
Assessed Total Value:	$27,050.00
Assessor's Parcel Number:	5665-294-13-011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2010
Calculated Land Value:	$146,030.00
Calculated Improvement Value:	$162,850.00
Calculated Total Value:	$308,880.00
Assessed Total Value:	$24,580.00
Assessor's Parcel Number:	5665-294-13-011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2009
Calculated Land Value:	$118,400.00
Calculated Improvement Value:	$221,540.00
Calculated Total Value:	$339,940.00
Assessed Total Value:	$27,050.00
Assessor's Parcel Number:	5665-294-13-011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2009

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Land Value:	$118,400.00
Calculated Improvement Value:	$221,540.00
Calculated Total Value:	$339,940.00
Assessed Total Value:	$27,050.00
Assessor's Parcel Number:	5665-294-13-011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2008
Calculated Land Value:	$103,200.00
Calculated Improvement Value:	$194,290.00
Calculated Total Value:	$297,490.00
Assessed Total Value:	$23,680.00
Assessor's Parcel Number:	5665-294-13-011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2007
Calculated Land Value:	$103,200.00
Calculated Improvement Value:	$194,290.00
Calculated Total Value:	$297,490.00
Assessed Total Value:	$23,680.00
Assessor's Parcel Number:	5665-29-4-13-011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2006
Calculated Land Value:	$103,200.00
Calculated Improvement Value:	$194,290.00

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Total Value:	$297,490.00
Assessed Total Value:	$23,680.00
Assessor's Parcel Number:	5665-29-4-13-011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827
Historical Tax Assessor Record: 8.	
Tax Year:	2003
Calculated Land Value:	$46,410.00
Calculated Improvement Value:	$148,340.00
Calculated Total Value:	$194,750.00
Assessed Total Value:	$15,500.00
Assessor's Parcel Number:	5665-29-4-13-011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

End of Document

To Summary

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Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN R
	LEISLE DANIEL M

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290100010045
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY
Lot Size:	405108
Lot Acreage:	9.3000
Legal Description:	HELENA ROUX 9852

Tax Assessment Information

Tax Year:	2008
Calculated Land Value:	$65,100.00
Calculated Total Value:	$65,100.00
Market Land Value:	$65,100.00
Market Total Value:	$65,100.00
Valuation Method:	MARKET
Tax Amount:	$588.80
Tax Code Area:	101

Building/Improvement Characteristics

Total Area:	405108

Last Market Sale Information

Sale Date:	01/30/2004
Seller Name:	OWNER RECORD
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	2004
Document Number:	143305

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN R
	LEISLE DANIEL M
Ownership Rights:	TENANCY IN COMMON
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R421188
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)
Lot Size:	653
Lot Acreage:	0.0150
Subdivision:	CAMP SILVER SPRUCE
Legal Description:	SECTION: 36 TOWNSHIP: 36 RANGE: 8 TR IN LOT 6 (NW4 NE4)
Lot Number:	6
Range:	08
Township:	36
Section:	36

Tax Assessment Information

Tax Year:	2012
Calculated Land Value:	$980.00
Calculated Total Value:	$980.00
Assessed Land Value:	$280.00
Assessed Total Value:	$280.00
Market Land Value:	$980.00
Market Total Value:	$980.00
Valuation Method:	MARKET

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Tax Amount:	$14.16
Tax Code Area:	1121

Building/Improvement Characteristics

Total Area:	653

Last Market Sale Information

Sale Date:	08/02/2007
Seller Name:	OWNER RECORD
Sale Price:	$400,000.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Multiple Parcel Sale:	MULTIPLE PARCEL SALE
Recording Date:	2007
Document Number:	962109

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH
	LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R434343

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	TOWNHOUSE/ROWHOUSE
Lot Size:	4443
Lot Acreage:	0.1020
Subdivision:	CAMP SILVER SPRUCE
Legal Description:	SUBDIVISION: CAMP SILVER SPRUCE LOTS 5 & 6 LOT: 6A PER PLAT 1059297
Lot Number:	5

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$47,810.00
Calculated Improvement Value:	$145,210.00
Calculated Total Value:	$193,020.00
Assessed Land Value:	$3,420.00
Assessed Improvement Value:	$10,380.00
Assessed Total Value:	$13,800.00
Market Land Value:	$47,810.00
Market Improvement Value:	$145,210.00
Market Total Value:	$193,020.00
Valuation Method:	MARKET
Tax Amount:	$559.80
Tax Code Area:	1121

Building/Improvement Characteristics

Building Type:	TOWNHOUSE
Number of Buildings:	1
Year Built:	19460000
Total Area:	4443RES IMPRV LAND
Living Square Feet:	1425
Number of Bedrooms:	2
Number of Bathrooms:	2.00
Full Baths:	2
Style/Shape:	TOWNHOUSE
Heat:	RADIANT ELECTRIC

Previous Transaction Information

Number of Parcels:	Y

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2018
Calculated Land Value:	$45,940.00
Calculated Improvement Value:	$134,170.00
Calculated Total Value:	$180,110.00
Assessed Total Value:	$12,970.00
Assessor's Parcel Number:	R434343
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2017
Calculated Land Value:	$45,940.00
Calculated Improvement Value:	$134,170.00
Calculated Total Value:	$180,110.00
Assessed Total Value:	$12,970.00
Assessor's Parcel Number:	R434343
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2016
Calculated Land Value:	$45,000.00
Calculated Improvement Value:	$124,200.00
Calculated Total Value:	$169,200.00
Assessed Total Value:	$13,470.00
Assessor's Parcel Number:	R434343
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$45,000.00
Calculated Improvement Value:	$124,200.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Total Value:	$169,200.00
Assessed Total Value:	$13,470.00
Assessor's Parcel Number:	R434343
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$45,940.00
Calculated Improvement Value:	$142,650.00
Calculated Total Value:	$188,590.00
Assessed Total Value:	$15,010.00
Assessor's Parcel Number:	R434343
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2013
Calculated Improvement Value:	$148,820.00
Calculated Total Value:	$148,820.00
Assessed Total Value:	$11,850.00
Assessor's Parcel Number:	R434343
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH
	LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN 2 DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R001994
Property Type:	CONDOMINIUM
Land Use:	CONDOMINIUM
Lot Size:	43560
Lot Acreage:	1.0000
Subdivision:	SILVER SPRUCE CONDO
Legal Description:	SUBDIVISION: SILVER SPRUCE CONDO UNIT: 2 DESC: ON LOT 6 OF SILVER SPRUCE S/D 40 FORREST GROVES LN #2 DURANGO 81301
Lot Number:	6

Tax Assessment Information

Tax Year:	2012
Calculated Improvement Value:	$175,990.00
Calculated Total Value:	$175,990.00
Assessed Improvement Value:	$14,010.00
Assessed Total Value:	$14,010.00
Market Improvement Value:	$175,990.00
Market Total Value:	$175,990.00
Valuation Method:	MARKET
Tax Amount:	$458.52
Tax Code Area:	1121

Building/Improvement Characteristics

Number of Buildings:	1

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Year Built:	19460000
Total Area:	43560
Living Square Feet:	1425
Style/Shape:	TRADITIONAL

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH
	LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN 2 DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	5595-361-05-031
Property Type:	CONDOMINIUM
Land Use:	CONDOMINIUM
Lot Size:	43560
Lot Acreage:	1.0000
Subdivision:	SILVER SPRUCE CONDO
Legal Description:	SUBDIVISION: SILVER SPRUCE CONDO UNIT: 2 DESC: ON LOT 6 OF SILVER SPRUCE S/D 40 FORREST GROVES LN #2 DURANGO 81301
Lot Number:	6

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Tax Assessment Information

Tax Year:	2011
Calculated Improvement Value:	$175,990.00
Calculated Total Value:	$175,990.00
Assessed Improvement Value:	$14,010.00
Assessed Total Value:	$14,010.00
Market Improvement Value:	$175,990.00
Market Total Value:	$175,990.00
Valuation Method:	MARKET
Tax Amount:	$449.20
Tax Code Area:	1121

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	19460000
Total Area:	43560
Living Square Feet:	1425
Style/Shape:	TRADITIONAL

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2010
Calculated Improvement Value:	$187,250.00
Calculated Total Value:	$187,250.00
Assessed Total Value:	$14,910.00
Assessor's Parcel Number:	5595-361-05-031
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN 2 DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2010
Calculated Improvement Value:	$175,990.00
Calculated Total Value:	$175,990.00
Assessed Total Value:	$14,010.00
Assessor's Parcel Number:	5595-361-05-031
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Address:	40 FORREST GROVES LN 2 DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2009
Calculated Improvement Value:	$187,250.00
Calculated Total Value:	$187,250.00
Assessed Total Value:	$14,910.00
Assessor's Parcel Number:	5595-361-05-031
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN 2 DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2008
Calculated Improvement Value:	$189,230.00
Calculated Total Value:	$189,230.00
Assessed Total Value:	$15,060.00
Assessor's Parcel Number:	5595-361-05-031
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FOREST GROVES LN 2 DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2007
Calculated Improvement Value:	$125,370.00
Calculated Total Value:	$125,370.00
Assessed Total Value:	$9,980.00
Assessor's Parcel Number:	5595-36-1-05-031
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FOREST GROVES LN 2 DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical Tax Assessor Record: 6.	
Tax Year:	2006
Calculated Improvement Value:	$125,370.00
Calculated Total Value:	$125,370.00
Assessed Total Value:	$9,980.00
Assessor's Parcel Number:	5595-36-1-05-031
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FOREST GROVES LN 2 DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2003
Calculated Land Value:	$12,780.00
Calculated Improvement Value:	$96,570.00
Calculated Total Value:	$109,350.00
Assessed Total Value:	$8,710.00
Assessor's Parcel Number:	5595-36-1-05-031
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FOREST GROVES LN 2 DURANGO, CO 81301-8354
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Owner Information

Owner(s):	LEISLE STEVEN R
	LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R437297
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)
Lot Size:	7754
Lot Acreage:	0.1780
Subdivision:	ANIMAS CITY
Legal Description:	SUBDIVISION: ANIMAS CITY (DGO) BLOCK: 1 LOT: 20A PLUS VACATED W 28TH ST ROW PER PLAT 1159651 402 W 28TH ST DURANGO 81301
Block Number:	1
Lot Number:	20A

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$191,100.00
Calculated Improvement Value:	$175,380.00
Calculated Total Value:	$366,480.00
Assessed Land Value:	$13,660.00
Assessed Improvement Value:	$12,540.00
Assessed Total Value:	$26,200.00
Market Land Value:	$191,100.00
Market Improvement Value:	$175,380.00
Market Total Value:	$366,480.00
Valuation Method:	MARKET
Tax Amount:	$907.72

Building/Improvement Characteristics

Total Area:	7754RES IMPRV LAND

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Last Market Sale Information

Sale Date:	05/28/1999
Seller Name:	OWNER RECORD
Sale Price:	$117,500.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	1999
Document Number:	768774

Previous Transaction Information

Number of Parcels:	Y Y

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH
	LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	5595-361-05-030
Property Type:	CONDOMINIUM
Land Use:	CONDOMINIUM
Lot Size:	43560

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Lot Acreage:	1.0000
Subdivision:	SILVER SPRUCE CONDO
Legal Description:	SUBDIVISION: SILVER SPRUCE CONDO UNIT: 1 DESC: ON LOT 6 OF SILVER SPRUCE S/D
Lot Number:	6

Tax Assessment Information

Tax Year:	2011
Calculated Improvement Value:	$176,910.00
Calculated Total Value:	$176,910.00
Assessed Improvement Value:	$14,080.00
Assessed Total Value:	$14,080.00
Market Improvement Value:	$176,910.00
Market Total Value:	$176,910.00
Valuation Method:	MARKET
Tax Amount:	$451.48
Tax Code Area:	1121

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	19460000
Total Area:	43560
Living Square Feet:	1425
Style/Shape:	TRADITIONAL

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2010
Calculated Improvement Value:	$176,910.00
Calculated Total Value:	$176,910.00
Assessed Total Value:	$14,080.00
Assessor's Parcel Number:	5595-361-05-030
Absentee Owner:	SITUS ADDRESS TAKEN FROM MAIL
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	SILVERTON, CO 81433-0444
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2010

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Improvement Value:	$188,230.00
Calculated Total Value:	$188,230.00
Assessed Total Value:	$14,980.00
Assessor's Parcel Number:	5595-361-05-030
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2009
Calculated Improvement Value:	$188,230.00
Calculated Total Value:	$188,230.00
Assessed Total Value:	$14,980.00
Assessor's Parcel Number:	5595-361-05-030
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2008
Calculated Improvement Value:	$190,220.00
Calculated Total Value:	$190,220.00
Assessed Total Value:	$15,140.00
Assessor's Parcel Number:	5595-361-05-030
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2007
Calculated Improvement Value:	$126,020.00
Calculated Total Value:	$126,020.00
Assessed Total Value:	$10,030.00
Assessor's Parcel Number:	5595-36-1-05-030
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical Tax Assessor Record: 6.	
Tax Year:	2006
Calculated Improvement Value:	$126,020.00
Calculated Total Value:	$126,020.00
Assessed Total Value:	$10,030.00
Assessor's Parcel Number:	5595-36-1-05-030
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2003
Calculated Land Value:	$12,780.00
Calculated Improvement Value:	$97,070.00
Calculated Total Value:	$109,850.00
Assessed Total Value:	$8,750.00
Assessor's Parcel Number:	5595-36-1-05-030
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	179 HIGH TRAILS DR DURANGO, CO 81301-8380
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN R

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R420102
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	6621
Lot Acreage:	0.1520
Subdivision:	ANIMAS CITY
Legal Description:	SUBDIVISION: ANIMAS CITY (DGO) BLOCK: 1 LOT: 20A 402 W 28TH ST DURANGO 81301
Block Number:	1
Lot Number:	20A

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$180,080.00
Calculated Improvement Value:	$166,930.00
Calculated Total Value:	$347,010.00
Assessed Land Value:	$12,970.00
Assessed Improvement Value:	$12,020.00
Assessed Total Value:	$24,990.00
Market Land Value:	$180,080.00
Market Improvement Value:	$166,930.00
Market Total Value:	$347,010.00
Valuation Method:	MARKET
Tax Amount:	$907.72
Tax Code Area:	1111

Building/Improvement Characteristics

Building Type:	SINGLE FAMILY
Number of Buildings:	1
Year Built:	19260000
Total Area:	6621RES IMPRV LAND

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Living Square Feet:	1208
Number of Bedrooms:	2
Number of Bathrooms:	1.00
Full Baths:	1
Garage Type:	UNFINISHED DETACHED GARAGE
Style/Shape:	CONVENTIONAL
Heat:	CONVECTION

Last Market Sale Information

Sale Date:	05/28/1999
Seller Name:	OWNER RECORD
Sale Price:	$117,500.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	1999
Document Number:	768774

Previous Transaction Information

Number of Parcels:	Y Y

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2017
Calculated Land Value:	$180,080.00
Calculated Improvement Value:	$166,930.00
Calculated Total Value:	$347,010.00
Assessed Total Value:	$24,990.00
Assessor's Parcel Number:	R420102
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2016
Calculated Land Value:	$155,580.00
Calculated Improvement Value:	$155,660.00
Calculated Total Value:	$311,240.00
Assessed Total Value:	$24,770.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Assessor's Parcel Number:	R420102
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2014
Calculated Land Value:	$155,580.00
Calculated Improvement Value:	$155,660.00
Calculated Total Value:	$311,240.00
Assessed Total Value:	$24,770.00
Assessor's Parcel Number:	R420102
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$149,450.00
Calculated Improvement Value:	$130,660.00
Calculated Total Value:	$280,110.00
Assessed Total Value:	$22,300.00
Assessor's Parcel Number:	R420102
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2013
Calculated Land Value:	$149,450.00
Calculated Improvement Value:	$130,660.00
Calculated Total Value:	$280,110.00
Assessed Total Value:	$22,300.00
Assessor's Parcel Number:	R420102
Owner:	LEISLE STEVEN R, LEISLE DANIEL M

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Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2012
Calculated Land Value:	$149,450.00
Calculated Improvement Value:	$136,470.00
Calculated Total Value:	$285,920.00
Assessed Total Value:	$22,760.00
Assessor's Parcel Number:	R420102
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN R
	LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	SAN JUAN

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Assessor's Parcel Number:	48290150010013
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY
Lot Size:	449975
Lot Acreage:	10.3300
Legal Description:	DANA 13322A

Tax Assessment Information

Tax Year:	2008
Calculated Land Value:	$51,655.00
Calculated Total Value:	$51,655.00
Market Land Value:	$51,655.00
Market Total Value:	$51,655.00
Valuation Method:	MARKET
Tax Amount:	$467.20
Tax Code Area:	101

Building/Improvement Characteristics

Total Area:	449975

Last Market Sale Information

Sale Date:	05/14/2003
Seller Name:	TAYLOR KENT
Sale Price:	$30,800.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	2003
Document Number:	142609

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
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To Summary
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Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN R
	LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290150010012
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY
Lot Size:	444312
Lot Acreage:	10.2000
Legal Description:	HAPPY JACK 8492

Tax Assessment Information

Tax Year:	2008
Calculated Land Value:	$10,200.00
Calculated Total Value:	$10,200.00
Market Land Value:	$10,200.00
Market Total Value:	$10,200.00
Valuation Method:	MARKET
Tax Amount:	$92.26
Tax Code Area:	101

Building/Improvement Characteristics

Total Area:	444312

Last Market Sale Information

Sale Date:	03/27/2006
Seller Name:	AIMONE CHRISTOPHER K & KATHLEEN
Sale Price:	$10,000.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	2006
Document Number:	144785

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TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	11/04/2019
Owner Information Current Through:	06/01/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE DANIEL M
	LEISLE LEIGH
Owner Relationship:	HUSBAND/WIFE
Property Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756

Property Information

County:	ST. JOHNS
Assessor's Parcel Number:	00621410020
Property Type:	VACANT
Land Use:	RESIDENTIAL LOT
Lot Size:	10890
Lot Acreage:	0.2500
Subdivision:	PONTE VEDRA/SEA ESTATES
Legal Description:	43/33-37 PONTE VEDRA BY THE SEA ESTATES LOT 2 OR2002/913
Lot Number:	2
Range:	29
Township:	03
Section:	43

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Tax Assessment Information

Tax Year:	2003
Calculated Land Value:	$180,000.00
Calculated Total Value:	$180,000.00
Assessed Total Value:	$180,000.00
Market Land Value:	$180,000.00
Market Total Value:	$180,000.00
Valuation Method:	MARKET
Tax Amount:	$3,166.58
Tax Code Area:	0300

Building/Improvement Characteristics

Total Area:	10890LT

Last Market Sale Information

Sale Date:	07/14/2003
Seller Name:	BEAZER HOMES CORP
Sale Price:	$660,000.00
Deed Type:	GRANT DEED
Mortgage Amount:	$322,700.00
Mortgage Loan Type:	CONVENTIONAL
Mortgage Term:	30 YEARS
Mortgage Deed Type:	MORTGAGE DEED
Lender Name:	WELLS FARGO HM MTG INC
2nd Mortgage Amount:	$40,000.00
2nd Mortgage Type:	CONVENTIONAL
2nd Deed Type:	MG
Recording Date:	07/22/2003
Document Number:	51526
Recording Book/Page:	BOOK 2002, PAGE 913
Title Company:	FIDELITY TITLE

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH
	LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	5595-361-05-029
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)
Lot Size:	610
Lot Acreage:	0.0140
Legal Description:	SECTION: 36 TOWNSHIP: 36 RANGE: 8 TR LOCATED IN LOT 5 (NW4 NE4)
Lot Number:	5
Range:	08
Township:	36
Section:	36

Tax Assessment Information

Tax Year:	2011
Calculated Land Value:	$980.00
Calculated Total Value:	$980.00
Assessed Land Value:	$280.00
Assessed Total Value:	$280.00
Market Land Value:	$980.00
Market Total Value:	$980.00
Valuation Method:	MARKET

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Tax Amount:	$13.96
Tax Code Area:	1121

Building/Improvement Characteristics

Total Area:	610

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2010
Calculated Land Value:	$980.00
Calculated Total Value:	$980.00
Assessed Total Value:	$280.00
Assessor's Parcel Number:	5595-361-05-029
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2010
Calculated Land Value:	$1,230.00
Calculated Total Value:	$1,230.00
Assessed Total Value:	$360.00
Assessor's Parcel Number:	5595-361-05-029
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2009
Calculated Land Value:	$1,230.00
Calculated Total Value:	$1,230.00
Assessed Total Value:	$360.00
Assessor's Parcel Number:	5595-361-05-029
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2008

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Land Value:	$1,200.00
Calculated Total Value:	$1,200.00
Assessed Total Value:	$350.00
Assessor's Parcel Number:	5595-361-05-029
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2007
Calculated Land Value:	$1,200.00
Calculated Total Value:	$1,200.00
Assessed Total Value:	$350.00
Assessor's Parcel Number:	5595-36-1-05-029
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2006
Calculated Land Value:	$1,200.00
Calculated Total Value:	$1,200.00
Assessed Total Value:	$350.00
Assessor's Parcel Number:	5595-36-1-05-029
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2003
Calculated Land Value:	$680.00
Calculated Total Value:	$680.00
Assessed Total Value:	$200.00
Assessor's Parcel Number:	5595-36-1-05-029
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

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TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Real Property Transactions (19)

To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	11/18/2019
Seller Name:	LEISLE STEVEN R & DANIEL M
Deed Type:	QUIT CLAIM DEED
Document Type:	QUIT CLAIM DEED
Type of Transaction:	NOMINAL
Recording Date:	12/30/2019
Document Number:	1166185
Construction Type:	SALE IS A RE-SALE

Owner Information

Owner(s):	MI CASA ES SU CASA LLC
Ownership Rights:	COMPANY / CORPORATION
Corporate Owner:	CORPORATE OWNER
Property Address:	301 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R015642

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	654

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	06/26/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK

Owner Information

Owner(s):	DANIEL LEISLE
Property Address:	55 SWAN DR MASSAPEQUA, NY 11758-7930

Property Information

County:	NASSAU
Assessor's Parcel Number:	65208 00270
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Building Square Feet:	1506

Transaction Information

Transaction Date:	06/18/1996
Seller Name:	MAHONEY THOMAS & DONNA
Sale Price:	$248,500.00
Deed Type:	GRANT DEED
Type of Transaction:	RESALE
Mortgage Amount:	$223,650.00
Mortgage Type:	CONVENTIONAL
Lender Name:	AMERICAN NATIONAL MORTGAGE COR
Recording Date:	07/02/1996
Recording Book/Page:	BOOK 10667, PAGE 574
Private Party Lender:	YES
Construction Type:	RESALE
Purchase Payment:	MORTGAGE

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	06/29/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	CLERK OF THE CIRCUIT CT

Owner Information

Owner(s):	DANIEL M LEISLE
Owner Relationship:	HUSBAND/WIFE
Additional Owner:	LEISLE DANIEL M & LEIGH
Owner Relationship:	HUSBAND/WIFE
Property Address:	369 SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Mailing Address:	369 SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756

Property Information

County:	ST. JOHNS
Assessor's Parcel Number:	00621410020
Property Type:	VACANT
Land Use:	RESIDENTIAL LOT

Transaction Information

Transaction Date:	07/14/2003
Seller Name:	BEAZER HOMES CORP
Sale Price:	$660,000.00
Deed Type:	GRANT DEED
Type of Transaction:	SUBDIVISION/NEW CONSTRUCTION
Mortgage Amount:	$322,700.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	30 YEARS
Mortgage Deed Type:	MORTGAGE DEED
Mortgage Date:	07/14/2003
Mortgage Due Date:	08/01/2033
Interest Rate:	ADJUSTABLE
Lender Name:	WELLS FARGO HM MTG INC
Address:	DES MOINES, IA 50306-5137
Recording Date:	07/22/2003
Document Number:	51526
Recording Book/Page:	BOOK 2002, PAGE 913
Title Company:	FIDELITY TITLE
Construction Type:	NEW CONSTRUCTION
Purchase Payment:	MORTGAGE
2nd Mortgage Amount:	$40,000.00
2nd Mortgage Type:	CONVENTIONAL
2nd Mortgage Deed Type:	MORTGAGE DEED

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Building Square Feet:	6318

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	06/29/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	CLERK OF THE CIRCUIT CT

Owner Information

Owner(s):	DANIEL M & LEIGH A LEISLE
Owner Relationship:	HUSBAND AND WIFE
Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Property Address:	369 SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Mailing Address:	369 SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756

Transaction Information

Transaction Date:	05/11/2011
Deed Type:	TRUST DEED/ MORTGAGE
Document Type:	MORTGAGE
Type of Transaction:	REFINANCE
Mortgage Amount:	$280,000.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	10 YEARS
Mortgage Deed Type:	MORTGAGE DEED
Mortgage Date:	05/11/2011
Mortgage Due Date:	06/01/2021
Lender Name:	US BK NATIONAL ASSN
Address:	OWENSBORO, KY 42301
Recording Date:	05/24/2011
Document Number:	26081
Recording Book/Page:	BOOK 3439, PAGE 1034
Refinance Loan:	LOAN TO VALUE IS MORE THAN 50%

Property Information

County:	ST. JOHNS
Assessor's Parcel Number:	062141-0020

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	5328

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	10/17/2005
Seller Name:	CAMP SILVER SPRUCE INC
Deed Type:	QUIT CLAIM
Type of Transaction:	RESALE
Recording Date:	11/17/2005
Document Number:	922700
Construction Type:	RESALE
Purchase Payment:	CASH

Owner Information

Owner(s):	STEVEN R & DANIEL M LEISLE
Ownership Rights:	TENANTS IN COMMON
Additional Owner:	LEISLE STEVEN R
Ownership Rights:	TENANTS IN COMMON
Additional Owner:	LEISLE DANIEL M
Ownership Rights:	TENANTS IN COMMON
Property Address:	CO
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Information

County:	LA PLATA
Property Type:	MISCELLANEOUS

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	DANIEL M LEISLE
Owner Relationship:	MARRIED
Ownership Rights:	SEPARATE PROPERTY
Additional Owner:	LEISLE DANIEL M
Owner Relationship:	MARRIED
Ownership Rights:	SEPARATE PROPERTY
Additional Owner:	LEISLE STEVEN R
Owner Relationship:	UNMARRIED
Property Address:	735 3RD ST DURANGO, CO 81301-5758
Mailing Address:	735 3RD ST

Transaction Information

Transaction Date:	07/01/2004
Deed Type:	DEED OF TRUST
Type of Transaction:	REFINANCE
Mortgage Amount:	$80,000.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	15 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	07/01/2004
Mortgage Due Date:	08/01/2019
Interest Rate:	FIXED
Lender Name:	CHARTER BK
Address:	ALBUQUERQUE, NM 87111
Recording Date:	07/15/2004
Document Number:	888900
Title Company:	COLORADO LAND TITLE CO
Refinance Loan:	LOAN TO VALUE IS MORE THAN 50%

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-5758

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R004146
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Real Property Transaction Record

Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	STEVEN R & DANIEL M LEISLE
Property Address:	MINERAL ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Transaction Information

Transaction Date:	06/25/2009
Seller Name:	CAMPBELL MARY A
Sale Price:	$50,300.00
Deed Type:	GRANT DEED
Document Type:	WARRANTY DEED
Type of Transaction:	RESALE
Mortgage Amount:	$40,000.00
Mortgage Type:	PRIVATE PARTY LENDER
Mortgage Term:	5 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	06/25/2009
Mortgage Due Date:	08/01/2013
Lender Name:	MONTANATIMARY A
Address:	LAKEWOOD, CO 80214-5226
Recording Date:	06/26/2009

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Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48291730300010

Document Number:	146939
	LAND TITLE GUARANTEE
Private Party Lender:	YES
Construction Type:	SALE IS A RE-SALE
Purchase Payment:	MORTGAGE
Multiple Parcel Sale:	SPLIT PARCEL SALE

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	12/29/2012
Seller Name:	CFS INVESTMENTS LLC
Deed Type:	GRANT DEED
Document Type:	BARGAIN & SALE DEED
Type of Transaction:	NOMINAL
Recording Date:	01/16/2013
Document Number:	1059298
Construction Type:	SALE IS A RE-SALE
Multiple Parcel Sale:	MULTI / DETAIL PARCEL SALE

Owner Information

Owner(s):	STEVEN R & DANIEL M LEISLE
Ownership Rights:	TENANTS IN COMMON
Property Address:	CO 32082
Mailing Address:	369 SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756

Property Information

County:	LA PLATA

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Assessor's Parcel Number:	559536105028
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	06/29/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	CLERK OF THE CIRCUIT CT

Owner Information

Owner(s):	DANIEL M LEISLE
Owner Relationship:	HUSBAND/WIFE
Additional Owner:	LEISLE DANIEL M & LEIGH
Owner Relationship:	HUSBAND/WIFE
Property Address:	369 SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Mailing Address:	369 SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756

Property Information

Transaction Information

Transaction Date:	07/14/2003
Seller Name:	BEAZER HOMES CORP
Sale Price:	$660,000.00
Deed Type:	GRANT DEED
Type of Transaction:	SUBDIVISION/NEW CONSTRUCTION
Mortgage Amount:	$322,700.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	30 YEARS
Mortgage Deed Type:	MORTGAGE DEED
Mortgage Date:	07/14/2003
Mortgage Due Date:	08/01/2033
Interest Rate:	ADJUSTABLE
Lender Name:	WELLS FARGO HM MTG INC
Address:	DES MOINES, IA 50306-5137
Recording Date:	07/22/2003
Document Number:	51526
Recording Book/Page:	BOOK 2002, PAGE 913
Title Company:	FIDELITY TITLE
Construction Type:	NEW CONSTRUCTION
Purchase Payment:	MORTGAGE

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	ST. JOHNS	**2nd Mortgage Amount:**	$40,000.00
		2nd Mortgage Type:	CONVENTIONAL
		2nd Mortgage Deed Type:	MORTGAGE DEED

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TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	12/29/2012
Seller Name:	CFS INVESTMENTS LLC
Deed Type:	GRANT DEED
Document Type:	BARGAIN & SALE DEED
Type of Transaction:	NOMINAL
Recording Date:	01/16/2013
Document Number:	1059298
Construction Type:	SALE IS A RE-SALE
Multiple Parcel Sale:	MULTIPLE PARCEL SALE

Owner Information

Owner(s):	STEVEN R & DANIEL M LEISLE
Ownership Rights:	TENANTS IN COMMON
Absentee Owner:	SITUS FROM SALE (ABSENTEE)
Property Address:	60 FORREST GROVES LN DURANGO, CO 81301-8354
Mailing Address:	369 SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756

Property Information

County:	LA PLATA

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Assessor's Parcel Number:	R434342
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	1686

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	10/17/2005
Seller Name:	OWNER RECORD
Deed Type:	QUIT CLAIM DEED
Document Type:	QUIT CLAIM DEED
Type of Transaction:	NOMINAL
Recording Date:	2005
Document Number:	922700
Construction Type:	SALE IS A RE-SALE
Multiple Parcel Sale:	MULTI / DETAIL PARCEL SALE

Owner Information

Owner(s):	STEVEN R & DANIEL M LEISLE
Property Address:	CO

Property Information

County:	LA PLATA
Assessor's Parcel Number:	559536105030
Property Type:	RESIDENTIAL CONDOMINIUM
Building Square Feet:	1425

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Real Property Transaction Record

Source Information

Filings Current Through:	06/29/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	CLERK OF THE CIRCUIT CT

Owner Information

Owner(s):	DANIEL M & LEIGH LEISLE
Owner Relationship:	HUSBAND AND WIFE
Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Additional Owner #1:	LEISLE DANIEL M
Owner Relationship:	HUSBAND/WIFE
Additional Owner #2:	LEISLE LEIGH
Property Address:	369 SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Mailing Address:	369 SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756

Transaction Information

Transaction Date:	02/24/2009
Deed Type:	TRUST DEED/ MORTGAGE
Document Type:	MORTGAGE
Type of Transaction:	REFINANCE
Mortgage Amount:	$297,070.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	30 YEARS
Mortgage Deed Type:	MORTGAGE DEED
Mortgage Date:	02/24/2009
Mortgage Due Date:	03/01/2039
Lender Name:	BANK OF AMERICA
Address:	RICHMOND, VA 23227
Recording Date:	03/20/2009
Document Number:	13618
Recording Book/Page:	BOOK 3175, PAGE 1482
	URBAN SETTLEMENT SVCS LLC
Refinance Loan:	LOAN TO VALUE IS MORE THAN 50%

Property Information

County:	ST. JOHNS

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Assessor's Parcel Number:	062141-0020
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	5328

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	STEVEN R LEISLE
Additional Owner:	LEISLE STEVEN R
Additional Owner:	LEISLE DANIEL M
Property Address:	301 32ND ST DURANGO, CO 81301-6011
Mailing Address:	301 32ND ST DURANGO, CO 81301-6011

Transaction Information

Transaction Date:	05/21/2004
Deed Type:	DEED OF TRUST
Type of Transaction:	REFINANCE
Mortgage Amount:	$90,000.00
Mortgage Type:	CONVENTIONAL
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	05/21/2004
Interest Rate:	ADJUSTABLE
Lender Name:	FIRST NAT'L BK/ DURANGO
Address:	DURANGO, CO 81302
Recording Date:	06/02/2004
Document Number:	885851
Equity Loan:	SECOND

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R015642
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	10/17/2005
Seller Name:	OWNER RECORD
Deed Type:	QUIT CLAIM DEED
Document Type:	QUIT CLAIM DEED
Type of Transaction:	NOMINAL
Recording Date:	2005
Document Number:	922700
Construction Type:	SALE IS A RE-SALE
Multiple Parcel Sale:	MULTI / DETAIL PARCEL SALE

Owner Information

Owner(s):	STEVEN R & DANIEL M LEISLE
Property Address:	40 FORREST GROVES LN 2 DURANGO, CO 81301-8354

Property Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	LA PLATA
Assessor's Parcel Number:	559536105031
Property Type:	RESIDENTIAL CONDOMINIUM
Building Square Feet:	1425

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Real Property Transaction Record

Source Information

Filings Current Through:	06/29/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	CLERK OF THE CIRCUIT CT

Transaction Information

Transaction Date:	02/26/2013
Deed Type:	TRUST DEED/ MORTGAGE
Document Type:	MORTGAGE
Type of Transaction:	REFINANCE
Mortgage Amount:	$245,000.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	10 YEARS
Mortgage Deed Type:	MORTGAGE DEED
Mortgage Date:	02/26/2013
Mortgage Due Date:	03/01/2023
Lender Name:	US BK NATIONAL ASSN
Address:	OWENSBORO, KY 42301
Recording Date:	03/06/2013
Document Number:	15374
Recording Book/Page:	BOOK 3696, PAGE 680
Refinance Loan:	LOAN TO VALUE IS MORE THAN 50%

Owner Information

Owner(s):	DANIEL & LEIGH LEISLE
Owner Relationship:	HUSBAND AND WIFE
Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Property Address:	369 SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
Mailing Address:	369 SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756

Property Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	ST. JOHNS
Assessor's Parcel Number:	062141-0020
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	5328

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

End of Document

To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	STEVEN R & DANIEL M LEISLE
Property Address:	1043 MINERAL ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Transaction Information

Transaction Date:	11/29/2011
Seller Name:	FEDERAL HM LN MTG CORP
Sale Price:	$90,000.00
Deed Type:	GRANT DEED
Document Type:	SPECIAL WARRANTY DEED
Type of Transaction:	RESALE
Recording Date:	12/27/2011
Document Number:	148290
	CHICAGO TITLE SERVICELINK DIV
Construction Type:	SALE IS A RE-SALE
Purchase Payment:	CASH
Foreclosure Sale:	REO SALE - SALE FROM GOVERNMENT TO PRIVATE PARTY

Property Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	SAN JUAN
Assessor's Parcel Number:	48291730350011
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	822

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	06/12/2020
County Last Updated:	07/30/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	RECORDER OF DEEDS

Owner Information

Owner(s):	DANIEL M LEISLE
Additional Owner:	LEISLE DANIEL M & LEIGH
Property Address:	12 CHERRY CREEK CV LITTLE ROCK, AR 72212-2005
Mailing Address:	12 CHERRY CREEK CV LITTLE ROCK, AR 72212-2005

Transaction Information

Consideration:	LEASE
Deed Type:	DEED OF TRUST
Type of Transaction:	REFINANCE
Mortgage Amount:	$50,000.00
Mortgage Type:	CONVENTIONAL
Mortgage Deed Type:	EQUITY OR CREDIT LINE
Interest Rate:	FIXED
Lender Name:	PULASKI BK
Recording Date:	02/04/2002
Document Number:	2002112920
Title Company:	OTHER
Equity Loan:	SECOND

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Property Information

County:	PULASKI
Assessor's Parcel Number:	43L-020-01-045-00
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	2914

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	DANIEL M & STEVEN R LEISLE
Owner Relationship:	MARRIED MAN
Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Property Address:	735 3RD ST

Transaction Information

Transaction Date:	11/09/2012
Deed Type:	TRUST DEED/ MORTGAGE
Document Type:	DEED OF TRUST
Type of Transaction:	REFINANCE
Mortgage Amount:	$147,500.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	15 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	11/09/2012
Mortgage Due Date:	12/01/2027
Lender Name:	BANK OF AMERICA
Address:	JACKSONVILLE, FL 32256
Recording Date:	11/13/2012
Document Number:	1055719

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-5758		CLT COLORADO LAND TITLE CO
Mailing Address:	735 3RD ST DURANGO, CO 81301-5758	**Refinance Loan:**	LOAN TO VALUE IS MORE THAN 50%

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R004146
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	1163

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	04/01/1972
Seller Name:	WHITE NORA & CLIFF
Sale Price:	$4,500.00
Deed Type:	GRANT DEED
Document Type:	DEED
Type of Transaction:	RESALE
Construction Type:	SALE IS A RE-SALE

Owner Information

Owner(s):	DANIEL M LEISLE
Property Address:	CO

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48291730350003
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	949

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Vehicle Registrations (4)

To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2001
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF HIGHWAY SAFETY & MOTOR VEHICLES

Vehicle Information

VIN:	19UUA66215A070913
Vehicle Type:	PASSENGER CAR
Model Year:	2005
Make:	ACURA
Body Style:	SEDAN 4D 5P
Model/Series:	TL BASE
Primary Color:	GRAY

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Registration Information

License Plate Number:	GABZ48
Decal Number:	15399200
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	GABZ48
Previous Plate State:	FL
Registration Renewal Date:	10/23/2019
Expiration Date:	12/04/2020
Registrant(s) Since:	11/13/2015
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 1

Registration Renewal Date:	11/28/2018
Expiration Date:	12/04/2019
License Plate Number:	GABZ48
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	GABZ48
Previous Plate State:	FL
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 2

Registration Renewal Date:	11/02/2016
Expiration Date:	12/04/2018
License Plate Number:	GABZ48
Issuing State:	FL
Plate Type:	PRIVATE

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Previous Plate Number:	GABZ48
Previous Plate State:	FL
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 3

Registration Renewal Date:	11/13/2015
Expiration Date:	12/04/2016
License Plate Number:	GABZ48
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	S979DJ
Previous Plate State:	FL
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 4

Registration Renewal Date:	10/31/2014
Expiration Date:	12/04/2015
License Plate Number:	S979DJ
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	S979DJ
Previous Plate State:	FL
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

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Historical DMV Record 5

Registration Renewal Date:	10/22/2013
Expiration Date:	12/04/2014
License Plate Number:	S979DJ
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	S979DJ
Previous Plate State:	FL
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 6

Registration Renewal Date:	11/06/2012
Expiration Date:	12/04/2013
License Plate Number:	S979DJ
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	S979DJ
Previous Plate State:	FL
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 7

Registration Renewal Date:	10/25/2011
Expiration Date:	12/04/2012
License Plate Number:	S979DJ
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	S979DJ
Previous Plate State:	FL

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 8

Registration Renewal Date:	11/16/2010
Expiration Date:	12/04/2011
License Plate Number:	S979DJ
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	S979DJ
Previous Plate State:	FL
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 9

Registration Renewal Date:	12/01/2009
Expiration Date:	12/04/2010
License Plate Number:	S979DJ
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	S979DJ
Previous Plate State:	FL
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 10

Registration Renewal Date:	11/04/2008

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Expiration Date:	12/04/2009
License Plate Number:	S979DJ
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	S979DJ
Previous Plate State:	FL
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 11

Registration Renewal Date:	10/23/2007
Expiration Date:	12/04/2008
License Plate Number:	S979DJ
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	S979DJ
Previous Plate State:	FL
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 12

Registration Renewal Date:	10/24/2006
Expiration Date:	12/04/2007
License Plate Number:	S979DJ
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	S979DJ
Previous Plate State:	FL
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT

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Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 13

Title Transfer Date:	09/20/2005
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	OWNER
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Registration Renewal Date:	09/15/2005
Expiration Date:	12/04/2006
License Plate Number:	S979DJ
Issuing State:	FL
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2001
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF HIGHWAY SAFETY & MOTOR VEHICLES

Vehicle Information

VIN:	1HGCM568X5A132066
Vehicle Type:	PASSENGER CAR
Model Year:	2005

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Make:	HONDA
Body Style:	SEDAN 4D 5P
Model/Series:	ACCORD EX L
Primary Color:	WHITE

Registration Information

License Plate Number:	323NUK
Decal Number:	01308268
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	323NUK
Previous Plate State:	FL
Registration Renewal Date:	09/20/2016
Expiration Date:	11/21/2018
Registrant(s) Since:	04/24/2012
Name:	LEIGH ANN LEISLE
Approximate Date of Birth:	11/XX/1966
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Registration Renewal Date:	09/20/2016
Expiration Date:	11/21/2018
Registrant(s) Since:	04/24/2012
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 1

Registration Renewal Date:	10/08/2014
Expiration Date:	11/21/2016
License Plate Number:	323NUK
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	323NUK
Previous Plate State:	FL

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Name:	LEIGH ANN LEISLE
Approximate Date of Birth:	11/XX/1966
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Registration Renewal Date:	10/08/2014
Expiration Date:	11/21/2016
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 2

Registration Renewal Date:	10/16/2013
Expiration Date:	11/21/2014
License Plate Number:	323NUK
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	323NUK
Previous Plate State:	FL
Name:	LEIGH ANN LEISLE
Approximate Date of Birth:	11/XX/1966
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Registration Renewal Date:	10/16/2013
Expiration Date:	11/21/2014
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 3

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Registration Renewal Date:	04/24/2012
Expiration Date:	11/21/2013
License Plate Number:	323NUK
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	P922KN
Previous Plate State:	FL
Name:	LEIGH ANN LEISLE
Approximate Date of Birth:	11/XX/1966
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Registration Renewal Date:	04/24/2012
Expiration Date:	11/21/2013
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Title Transfer Date:	04/24/2012
Name:	LEIGH ANN LEISLE
Approximate Date of Birth:	11/XX/1966
Interest:	OWNER
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Title Transfer Date:	04/24/2012
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	OWNER
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Registration Renewal Date:	01/31/2012
Expiration Date:	02/11/2013
License Plate Number:	P922KN

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	P922KN
Previous Plate State:	FL
Name:	WILLIAM CARTER ROSS
Approximate Date of Birth:	02/XX/1969
Interest:	REGISTRANT
Mailing Address:	132 SEA LILY LN PONTE VEDRA BEA, FL 32082-4704
County:	SAINT JOHNS

Historical DMV Record 4

Registration Renewal Date:	01/12/2011
Expiration Date:	02/11/2012
License Plate Number:	P922KN
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	P922KN
Previous Plate State:	FL
Name:	WILLIAM CARTER ROSS
Approximate Date of Birth:	02/XX/1969
Interest:	REGISTRANT
Mailing Address:	132 SEA LILY LN PONTE VEDRA BEA, FL 32082-4704
County:	SAINT JOHNS

Historical DMV Record 5

Registration Renewal Date:	01/22/2010
Expiration Date:	02/11/2011
License Plate Number:	P922KN
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	P922KN
Previous Plate State:	FL
Name:	WILLIAM CARTER ROSS
Approximate Date of Birth:	02/XX/1969
Interest:	REGISTRANT
Mailing Address:	132 SEA LILY LN PONTE VEDRA BEA, FL 32082-4704

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County:	SAINT JOHNS

Historical DMV Record 6

Registration Renewal Date:	03/07/2008
Expiration Date:	02/11/2010
License Plate Number:	P922KN
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	P922KN
Previous Plate State:	FL
Name:	WILLIAM ROSS
Approximate Date of Birth:	02/XX/1969
Interest:	REGISTRANT
Mailing Address:	132 SEA LILY LN PONTE VEDRA BEA, FL 32082-4704
County:	SAINT JOHNS

Historical DMV Record 7

Registration Renewal Date:	05/21/2007
Expiration Date:	02/11/2008
License Plate Number:	P922KN
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	P922KN
Previous Plate State:	FL
Name:	WILLIAM CARTER J. ROSS
Approximate Date of Birth:	02/XX/1969
Interest:	REGISTRANT
Mailing Address:	132 SEA LILY LN PONTE VEDRA BEA, FL 32082-4704
County:	SAINT JOHNS

Historical DMV Record 8

Registration Renewal Date:	06/09/2005
Expiration Date:	02/11/2006
License Plate Number:	P922KN
Issuing State:	FL
Plate Type:	PRIVATE
Name:	WILLIAM CARTER J. ROSS

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Approximate Date of Birth:	02/XX/1969
Interest:	REGISTRANT
Mailing Address:	132 SEA LILY LN PONTE VEDRA BEA, FL 32082-4704
County:	SAINT JOHNS
Title Transfer Date:	06/09/2005
Name:	WILLIAM CARTER ROSS, JR.
Approximate Date of Birth:	02/XX/1969
Interest:	OWNER
Mailing Address:	132 SEA LILY LN PONTE VEDRA BEA, FL 32082-4704
County:	SAINT JOHNS
Registration Renewal Date:	06/09/2005
Expiration Date:	02/11/2006
License Plate Number:	P922KN
Issuing State:	FL
Name:	WILLIAM CARTER J. ROSS
Approximate Date of Birth:	02/XX/1969
Interest:	REGISTRANT
Mailing Address:	132 SEA LILY LN PONTE VEDRA BEA, FL 32082-4704
County:	SAINT JOHNS

End of Document

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2001
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF HIGHWAY SAFETY & MOTOR VEHICLES

Vehicle Information

VIN:	5GAER23D49J196412
Vehicle Type:	PASSENGER CAR
Model Year:	2009

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Make:	BUICK
Body Style:	SUV 4D 7P
Model/Series:	ENCLAVE CXL
Primary Color:	GOLD

Registration Information

License Plate Number:	KUKH12
Decal Number:	02385095
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	609LLX
Previous Plate State:	FL
Registration Renewal Date:	11/28/2018
Expiration Date:	12/04/2020
Registrant(s) Since:	11/28/2018
Name:	LEIGH ANN LEISLE
Approximate Date of Birth:	11/XX/1966
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
County:	SAINT JOHNS
Registration Renewal Date:	11/28/2018
Expiration Date:	12/04/2020
Registrant(s) Since:	11/28/2018
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
County:	SAINT JOHNS

Title Information:

Original Title Date:	08/11/2009
Title Number:	0102894851
Name:	LEIGH ANN LEISLE
Interest:	OWNER
Title Transaction Date:	08/11/2009
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	SAINT JOHNS
Name:	DANIEL M. LEISLE
Interest:	OWNER
Title Transaction Date:	08/11/2009
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 1

Registration Renewal Date:	11/02/2016
Expiration Date:	12/04/2018
License Plate Number:	609LLX
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	609LLX
Previous Plate State:	FL
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Registration Renewal Date:	11/02/2016
Expiration Date:	12/04/2018
Name:	LEIGH ANN LEISLE
Approximate Date of Birth:	11/XX/1966
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 2

Registration Renewal Date:	11/13/2015
Expiration Date:	12/04/2016
License Plate Number:	609LLX
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	609LLX
Previous Plate State:	FL

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Name:	LEIGH ANN LEISLE
Approximate Date of Birth:	11/XX/1966
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Registration Renewal Date:	11/13/2015
Expiration Date:	12/04/2016
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 3

Registration Renewal Date:	10/31/2014
Expiration Date:	12/04/2015
License Plate Number:	609LLX
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	609LLX
Previous Plate State:	FL
Name:	LEIGH ANN LEISLE
Approximate Date of Birth:	11/XX/1966
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Registration Renewal Date:	10/31/2014
Expiration Date:	12/04/2015
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 4

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Registration Renewal Date:	10/22/2013
Expiration Date:	12/04/2014
License Plate Number:	609LLX
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	609LLX
Previous Plate State:	FL
Name:	LEIGH ANN LEISLE
Approximate Date of Birth:	11/XX/1966
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Registration Renewal Date:	10/22/2013
Expiration Date:	12/04/2014
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 5

Registration Renewal Date:	11/06/2012
Expiration Date:	12/04/2013
License Plate Number:	609LLX
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	609LLX
Previous Plate State:	FL
Name:	LEIGH ANN LEISLE
Approximate Date of Birth:	11/XX/1966
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Registration Renewal Date:	11/06/2012
Expiration Date:	12/04/2013
Name:	DANIEL M. LEISLE

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 6

Registration Renewal Date:	10/25/2011
Expiration Date:	12/04/2012
License Plate Number:	609LLX
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	609LLX
Previous Plate State:	FL
Name:	LEIGH ANN LEISLE
Approximate Date of Birth:	11/XX/1966
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Registration Renewal Date:	10/25/2011
Expiration Date:	12/04/2012
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 7

Registration Renewal Date:	11/16/2010
Expiration Date:	12/04/2011
License Plate Number:	609LLX
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	609LLX
Previous Plate State:	FL
Name:	LEIGH ANN LEISLE
Approximate Date of Birth:	11/XX/1966

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Registration Renewal Date:	11/16/2010
Expiration Date:	12/04/2011
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 8

Registration Renewal Date:	12/01/2009
Expiration Date:	12/04/2010
License Plate Number:	609LLX
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	609LLX
Previous Plate State:	FL
Name:	LEIGH ANN LEISLE
Approximate Date of Birth:	11/XX/1966
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Registration Renewal Date:	07/31/2009
Expiration Date:	12/04/2009
License Plate Number:	609LLX
Issuing State:	FL
Plate Type:	PRIVATE
Name:	LEIGH ANN LEISLE
Approximate Date of Birth:	11/XX/1966
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Registration Renewal Date:	07/31/2009

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Expiration Date:	12/04/2009
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2001
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF HIGHWAY SAFETY & MOTOR VEHICLES

Vehicle Information

VIN:	1FDRE14L0WHB53812
Vehicle Type:	PASSENGER CAR
Model Year:	1998
Make:	FORD
Body Style:	CARGO VAN 3D
Model/Series:	E150 VANS ECONOLINE
Primary Color:	WHITE

Title Information:

Original Title Date:	07/18/2003
Title Number:	0088402418
Name:	KEY BUICK CO.
Interest:	OWNER
Title Transaction Date:	08/11/2009
Mailing Address:	4660 SOUTHSIDE BLVD JACKSONVILLE, FL 32216-6358
County:	DUVAL

Historical DMV Record 1

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Registration Renewal Date:	11/04/2008
Expiration Date:	12/04/2009
License Plate Number:	609LLX
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	W10TNS
Previous Plate State:	FL
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Registration Renewal Date:	11/04/2008
Expiration Date:	12/04/2009
Name:	LEIGH ANN LEISLE
Approximate Date of Birth:	11/XX/1966
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 2

Registration Renewal Date:	10/23/2007
Expiration Date:	12/04/2008
License Plate Number:	W10TNS
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	W10TNS
Previous Plate State:	FL
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Registration Renewal Date:	10/23/2007
Expiration Date:	12/04/2008
Name:	LEIGH ANN LEISLE

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Approximate Date of Birth:	11/XX/1966
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 3

Registration Renewal Date:	10/24/2006
Expiration Date:	12/04/2007
License Plate Number:	W10TNS
Issuing State:	FL
Plate Type:	PRIVATE
Previous Plate Number:	W10TNS
Previous Plate State:	FL
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Registration Renewal Date:	10/24/2006
Expiration Date:	12/04/2007
Name:	LEIGH ANN LEISLE
Approximate Date of Birth:	11/XX/1966
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 4

Registration Renewal Date:	10/25/2005
Expiration Date:	12/04/2006
License Plate Number:	W10TNS
Issuing State:	FL
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756

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County:	SAINT JOHNS
Registration Renewal Date:	10/25/2005
Expiration Date:	12/04/2006
Name:	LEIGH ANN LEISLE
Approximate Date of Birth:	11/XX/1966
Interest:	REGISTRANT
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

Historical DMV Record 5

Title Transfer Date:	07/18/2003
Name:	DANIEL M. LEISLE
Approximate Date of Birth:	12/XX/1964
Interest:	OWNER
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS
Title Transfer Date:	07/18/2003
Name:	LEIGH ANN LEISLE
Approximate Date of Birth:	11/XX/1966
Interest:	OWNER
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEA, FL 32082-4756
County:	SAINT JOHNS

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Corporate Records & Business Registrations (5)

To Summary

Corporate Records & Business Registrations

Source Information

Information Current Through:	06/03/2020
Database Last Updated:	07/20/2020
Update Frequency:	QUARTERLY
Current Date:	08/12/2020

Registered Agent Information

Name:	C T CORPORATION SYSTEM
Address:	1200 SOUTH PINE ISLAND ROAD PLANTATION, FL 33324

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Source:	AS REPORTED BY THE SECRETARY OF STATE OR OTHER OFFICIAL SOURCE

Company Information

Name:	FNTG NATIONAL RECORD CENTERS, INC.
Address:	C/O MADELINE G. M. LOVEJOY;3210 EL CAMINO REAL STE 200 IRVINE, CA 92602
D&B DUNS:	84-823-6936

Filing Information

Identification Number:	F03000001147
Filing Date:	03/07/2003
State of Incorporation:	DELAWARE
Status:	ACTIVE
Corporation Type:	PROFIT
Business Type:	FOREIGN CORPORATION
Address Type:	MAILING
Federal ID #:	06-1675168
Where Filed:	STATE DEPARTMENT/ CORPORATION DIVISION
	409 E. GAINES ST TALLAHASSEE, FL 32301

Principal Information

Name:	RAYMOND R QUIRK
Title:	D
Address:	601 RIVERSIDE AVE JACKSONVILLE, FL 32204
Name:	DANIEL M LEISLE
Title:	P
Address:	601 RIVERSIDE AVE. JACKSONVILLE, FL 32204
Name:	ANTHONY J PARK
Title:	CFO
Address:	601 RIVERSIDE AVE. JACKSONVILLE, FL 32204
Name:	MARILYN C SUPALO
Title:	VP/A
Address:	1701 VILLAGE CENTER CIRCLE LAS VEGAS, NV 89134
Name:	MARJORIE NEMZURA
Title:	VP/S
Address:	10 S LASALLE ST STE 3100 CHICAGO, IL 60603
Name:	MADELINE R LOVEJOY
Title:	AVP/
Address:	3210 EL CAMINO REAL STE 200 IRVINE, CA 92602

Amendment Information

Amendments:	02/14/2020 MISCELLANEOUS 2020 ANNUAL REPORT FILED.

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	02/14/2019 MISCELLANEOUS 2019 ANNUAL REPORT FILED.

Tax Information

Corporate Tax Details:		
Annual Report Filed:	02/14/2019	
The preceding public record data is for information purposes only and is not the official record. Certified copies can only be obtained from the official source.		
The public record items reported above may have been paid, terminated, vacated or released prior to today's date.		

Order Documents

Call Westlaw CourtExpress at 1-877-DOC-RETR (1-877-362-7387) for on-site manual retrieval of documents related to this or other matters. Additional charges apply.

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To Summary

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Corporate Records & Business Registrations

Source Information

Information Current Through:	07/29/2020
Database Last Updated:	08/12/2020
Update Frequency:	WEEKLY
Current Date:	08/12/2020
Source:	AS REPORTED BY THE SECRETARY OF STATE OR OTHER OFFICIAL SOURCE

Registered Agent Information

Name:	C T CORPORATION SYSTEM
Address:	780 COMMERCIAL ST SE STE 100 SALEM, OR 97301-3465

Name Information

Former Name:	FNF NATIONAL RECORD CENTERS, INC.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Company Information

Name:	FNTG NATIONAL RECORD CENTERS, INC.
Address:	601 RIVERSIDE AVE JACKSONVILLE, FL 32204
D&B DUNS:	16-047-4883

Filing Information

Identification Number:	22656698
Filing Date:	06/21/2004
State of Incorporation:	DELAWARE
Status:	ACTIVE
Corporation Type:	PROFIT
Business Type:	FOREIGN CORPORATION
Address Type:	BUSINESS
Where Filed:	SECRETARY OF STATE/ CORPORATIONS DIVISION
	158 12TH ST NE SALEM, OR 97301

Principal Information

Name:	DANIEL M LEISLE
Title:	PRESIDENT
Name:	MARJORIE NEMZURA
Title:	SECRETARY

Amendment Information

Amendments:	05/20/2020 MISCELLANEOUS AMENDED ANNUAL REPORT
	05/24/2019 MISCELLANEOUS AMENDED ANNUAL REPORT
	05/03/2018 MISCELLANEOUS AMENDED ANNUAL REPORT
	12/01/2017 MISCELLANEOUS CHANGE OF REGISTERED AGENT/ ADDRESS
	06/12/2017 MISCELLANEOUS CHANGE OF REGISTERED AGENT/ ADDRESS
	05/26/2017 MISCELLANEOUS AMENDED ANNUAL REPORT
	05/09/2016 MISCELLANEOUS

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	AMENDED ANNUAL REPORT
	05/05/2015 MISCELLANEOUS AMENDED ANNUAL REPORT
	05/13/2014 MISCELLANEOUS AMENDED ANNUAL REPORT
	06/06/2013 MISCELLANEOUS AMENDED ANNUAL REPORT
	05/22/2012 MISCELLANEOUS AMENDED ANNUAL REPORT
	06/08/2011 MISCELLANEOUS AMENDED ANNUAL REPORT
	06/10/2010 MISCELLANEOUS AMNDMT TO ANNUAL RPT/INFO STATEMENT
	05/26/2010 MISCELLANEOUS ANNUAL REPORT PAYMENT
	05/20/2009 MISCELLANEOUS AMNDMT TO ANNUAL RPT/INFO STATEMENT
	05/15/2009 MISCELLANEOUS ANNUAL REPORT PAYMENT
	05/28/2008 MISCELLANEOUS

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	AMNDMT TO ANNUAL RPT/INFO STATEMENT
	05/19/2008 MISCELLANEOUS ANNUAL REPORT PAYMENT
	06/12/2007 MISCELLANEOUS AMNDMT TO ANNUAL RPT/INFO STATEMENT
	06/06/2007 MISCELLANEOUS ANNUAL REPORT PAYMENT
	06/01/2006 MISCELLANEOUS ANNUAL REPORT PAYMENT
	02/06/2006 MISCELLANEOUS AMENDMENT TO AUTHORITY
	06/14/2005 MISCELLANEOUS ANNUAL REPORT
	06/21/2004 MISCELLANEOUS APPLICATION FOR AUTHORITY
The preceding public record data is for information purposes only and is not the official record. Certified copies can only be obtained from the official source.	
The public record items reported above may have been paid, terminated, vacated or released prior to today's date.	

Order Documents

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

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To Summary

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Corporate Records & Business Registrations

Source Information

Information Current Through:	08/07/2020
Database Last Updated:	08/12/2020
Update Frequency:	DAILY
Current Date:	08/12/2020
Source:	AS REPORTED BY THE SECRETARY OF STATE OR OTHER OFFICIAL SOURCE

Company Information

Name:	FNTG NATIONAL RECORD CENTERS, INC.

Filing Information

Identification Number:	62736631
Filing Date:	03/03/2003
State of Incorporation:	DELAWARE
Duration:	PERPETUAL
Status:	GOOD STANDING
Corporation Type:	PROFIT
Business Type:	FOREIGN CORPORATION
Where Filed:	SECRETARY OF STATE/ CORPORATIONS DIVISION
	350 HOWLETT BLDG SPRINGFIELD, IL 62756

Registered Agent Information

Name:	C T CORPORATION SYSTEM
Address:	208 SO LASALLE ST, SUITE 814 CHICAGO, IL 60604-1101

Name Information

Former Name:	FNF NATIONAL RECORD CENTERS, INC.

Principal Information

Name:	DANIEL M LEISLE 601 RIVERSIDE AVE JACKSONVILLE FL 32204
Title:	PRESIDENT
Name:	MARJORIE NEMZURA 10 S LASALLE ST STE 3100 CHICAGO IL 60603
Title:	SECRETARY

Amendment Information

Amendments:	02/08/2006 NAME CHANGE FROM: FNF NATIONAL RECORD CENTERS, INC.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Stock Information

Authorized Capital:	$1,000.00
Stock:	Common
Dollar Value:	$1,000.00
Authorized Shares:	1,000
Stock Issued:	1,000
Par Value:	$1.00
Voting Rights:	YES
Convertible:	NO

Tax Information

Corporate Tax Details:	
Tax Factor:	1
Total Capital:	$1,000.00
Annual Report Filed:	02/24/2020

Additional Detail Information

Additional Details:	IMPORTANT: FILING IS "NOT IN GOOD STANDING" IF A CURRENT ANNUAL REPORT HAS NOT BEEN FILED
The preceding public record data is for information purposes only and is not the official record. Certified copies can only be obtained from the official source.	
The public record items reported above may have been paid, terminated, vacated or released prior to today's date.	

Order Documents

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Call Westlaw CourtExpress at 1-877-DOC-RETR (1-877-362-7387) for on-site manual retrieval of documents related to this or other matters. Additional charges apply.

End of Document
To Summary

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Corporate Records & Business Registrations

Source Information

Information Current Through:	08/11/2020
Database Last Updated:	08/12/2020
Update Frequency:	DAILY
Current Date:	08/12/2020
Source:	TEXAS SECRETARY OF STATE

Company Information

Name:	FNTG NATIONAL RECORD CENTERS, INC.
Address:	601 RIVERSIDE AVE 5TH FLOOR TAX JACKSONVILLE, FL 32204 USA

Filing Information

Filing Number:	800181046
Filing Date:	03/07/2003
State of Incorporation:	DELAWARE
Country of Incorporation:	UNITED STATES OF AMERICA
Duration:	PERPETUAL
Status:	IN EXISTENCE
Corporation Type:	PROFIT

Registered Agent Information

Name:	C T CORPORATION SYSTEM
Address:	1999 BRYAN ST., STE. 900 DALLAS, TX 75201-3136 USA

Name Information

Legal Name:	FNTG NATIONAL RECORD CENTERS, INC.
Status:	IN USE
Filing Date:	02/08/2006

Name Information

Legal Name:	FNF NATIONAL RECORD CENTERS, INC.
Status:	PRIOR
Filing Date:	03/07/2003
Inactive Date:	02/08/2006

Principal Information

Name:	DANIEL M LEISLE
Title:	PRESIDENT
Address:	601 RIVERSIDE AVE JACKSONVILLE, FL 32204 USA

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Business Type:	FOREIGN FOR-PROFIT CORPORATION
State Tax ID:	10616751680
Where Filed:	SECRETARY OF STATE
	1019 BRAZOS ST AUSTIN, TX 78701

Name:	ANTHONY JOHN PARK
Title:	CHIEF FINANCIAL OFFICER, DIRECTOR
Address:	601 RIVERSIDE AVE JACKSONVILLE, FL 32204 USA
Name:	MICHAEL LOUIS GRAVELLE
Title:	SECRETARY
Address:	601 RIVERSIDE AVE JACKSONVILLE, FL 32204 USA

Amendment Information

Amendments:	01/11/2016 PUBLIC INFORMATION REPORT (PIR); DOCUMENT NUMBER - 649620800001
	02/08/2006 APPLICATION FOR AMENDED CERTIFICATE OF AUTHORITY; DOCUMENT NUMBER - 116873190002
	01/15/2015 PUBLIC INFORMATION REPORT (PIR); DOCUMENT NUMBER - 586755740001
	12/06/2005 PUBLIC INFORMATION REPORT (PIR); DOCUMENT NUMBER - 110874040001
	09/21/2010 PUBLIC INFORMATION REPORT (PIR); DOCUMENT NUMBER - 329018290001

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	06/06/2009 PUBLIC INFORMATION REPORT (PIR); DOCUMENT NUMBER - 260851690001
	03/14/2011 PUBLIC INFORMATION REPORT (PIR); DOCUMENT NUMBER - 359129430001
	04/19/2010 CHANGE OF NAME OR ADDRESS BY REGISTERED AGENT; DOCUMENT NUMBER - 304545947851
	12/27/2004 PUBLIC INFORMATION REPORT (PIR); DOCUMENT NUMBER - 78124240001
	10/05/2006 PUBLIC INFORMATION REPORT (PIR); DOCUMENT NUMBER - 146670560001
	12/02/2013 CHANGE OF NAME OR ADDRESS BY REGISTERED AGENT; DOCUMENT NUMBER - 518827960292
	01/07/2014 PUBLIC INFORMATION REPORT (PIR); DOCUMENT NUMBER - 523203870001
	03/07/2003 APPLICATION FOR CERTIFICATE OF AUTHORITY; DOCUMENT NUMBER - 28709760002
	02/17/2008 PUBLIC INFORMATION REPORT (PIR); DOCUMENT NUMBER - 203961890001

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	01/22/2013 PUBLIC INFORMATION REPORT (PIR); DOCUMENT NUMBER - 462257200001
	01/06/2019 PUBLIC INFORMATION REPORT (PIR); DOCUMENT NUMBER - 859416730001
	04/02/2018 PUBLIC INFORMATION REPORT (PIR); DOCUMENT NUMBER - 804208840001
	05/19/2017 PUBLIC INFORMATION REPORT (PIR); DOCUMENT NUMBER - 738798750001
	03/29/2020 PUBLIC INFORMATION REPORT (PIR); DOCUMENT NUMBER - 959517340001
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The public record items reported above may have been paid, terminated, vacated or released prior to today's date.	

Order Documents

Call Westlaw CourtExpress at 1-877-DOC-RETR (1-877-362-7387) for on-site manual retrieval of documents related to this or other matters. Additional charges apply.

End of Document

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To Summary

Corporate Records & Business Registrations

Source Information

Registered Agent Information

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Information Current Through:	08/06/2020
Database Last Updated:	08/12/2020
Update Frequency:	WEEKLY
Current Date:	08/12/2020
Source:	CALIFORNIA SECRETARY OF STATE

THIS DATA IS FOR INFORMATION PURPOSES ONLY. CERTIFICATION CAN ONLY BE OBTAINED THROUGH THE SACRAMENTO OFFICE OF THE CALIFORNIA SECRETARY OF STATE.

Company Information

Name:	FNTG NATIONAL RECORD CENTERS, INC.
Address:	3210 EL CAMINO REAL, STE. 200 IRVINE, CA 92602

Filing Information

Identification Number:	C2500967
Filing Date:	03/07/2003
State of Incorporation:	DELAWARE
Status:	ACTIVE
Corporation Type:	PROFIT
Business Type:	CORPORATION
Where Filed:	SECRETARY OF STATE/ CORPORATIONS DIVISION
	1500-11TH STREET SACRAMENTO, CA 95814

Name:	C T CORPORATION SYSTEM
Address:	818 WEST SEVENTH ST STE 930 LOS ANGELES, CA 90017

Name Information

Former Name:	FNF NATIONAL RECORD CENTERS, INC.

Principal Information

Name:	DANIEL M. LEISLE
Address:	601 RIVERSIDE AVE. JACKSONVILLE, FL 32204

Amendment Information

Amendments:	03/20/2006 AMENDED STATEMENT AND DESIGNATION BY FOREIGN CORPORATION NAME CHANGE FROM: FNF NATIONAL RECORD CENTERS, INC.

The preceding public record data is for information purposes only and is not the official record. Certified copies can only be obtained from the official source.

The public record items reported above may have been paid, terminated, vacated or released prior to today's date.

Order Documents

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Household Records (4)

To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	402 W 28TH ST DURANGO, CO 81301-4108
County:	LA PLATA
Latitude/Longitude:	37.29557/-107.878159
Residence Type:	SINGLE FAMILY DWELLING
Address First Reported:	2004

Head of Household Information

Head of Household:	MR DANIEL M LEISLE
Gender:	MALE
Name/Address Confirmed:	08/2011
Marital Status:	SINGLE

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To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	735 E 3RD ST DURANGO, CO 81301-5758
County:	LA PLATA
Latitude/Longitude:	37.265312/-107.874069
Residence Type:	SINGLE FAMILY DWELLING
Address First Reported:	2001

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Head of Household Information

Head of Household:	MR DANIEL M LEISLE
Gender:	MALE
Name/Address Confirmed:	11/2012
Marital Status:	SINGLE

End of Document

To Summary

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People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	369 N SEA LAKE LN PONTE VEDRA, FL 32082-4756
County:	ST. JOHNS
Latitude/Longitude:	-81.375738/30.213917
Residence Type:	SINGLE FAMILY DWELLING
Address First Reported:	2003
Telephone:	904-285-4747

Head of Household Information

Head of Household:	MR DANIEL M LEISLE
Gender:	MALE
Date of Birth:	12/XX/1964
Name/Address Confirmed:	11/2016
Marital Status:	MARRIED

Additional Individuals In This Household

Name:	MS LEIGH A LEISLE (Spouse)
Gender:	FEMALE
Date of Birth:	11/XX/1966
Name/Address Confirmed:	11/2016
Marital Status:	MARRIED
Name:	MR NICHOLAS H LEISLE
Gender:	MALE
Date of Birth:	03/XX/1996
Name/Address Confirmed:	11/2016
Name:	MR MICHAEL C LEISLE
Gender:	MALE

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Date of Birth:	08/XX/1998
Name/Address Confirmed:	11/2016

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To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	301 E 32ND ST DURANGO, CO 81301-6011
County:	LA PLATA
Latitude/Longitude:	37.300068/-107.867859
Residence Type:	SINGLE FAMILY DWELLING
Address First Reported:	1991

Head of Household Information

Head of Household:	MR DANIEL M LEISLE
Gender:	MALE
Name/Address Confirmed:	11/2014
Marital Status:	SINGLE

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Possible Relatives & Household Members

Household Records

402 W 28TH ST DURANGO, CO 81301-4108 | Full-Text

Address First Reported:	2004	**Confidence Score:**	85
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MR DANIEL M LEISLE	Head of Household	N/A	08/2011

735 E 3RD ST DURANGO, CO 81301-5758 | Full-Text

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Address First Reported:	2001	Confidence Score:	85
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MR DANIEL M LEISLE	Head of Household	N/A	11/2012

369 N SEA LAKE LN PONTE VEDRA, FL 32082-4756 | Full-Text

Address First Reported:	2003	Phone:	904-285-4747	Confidence Score:	99
Name	**Role**		**Date of Birth**	**Name/Address Confirmed:**	
MR DANIEL M LEISLE	Head of Household		12/XX/1964	11/2016	
MS LEIGH A LEISLE	Spouse		11/XX/1966	11/2016	
MR NICHOLAS H LEISLE	Other		03/XX/1996	11/2016	
MR MICHAEL C LEISLE	Other		08/XX/1998	11/2016	

301 E 32ND ST DURANGO, CO 81301-6011 | Full-Text

Address First Reported:	1991	Confidence Score:	99
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MR DANIEL M LEISLE	Head of Household	N/A	11/2014

Possible Named Parties

People Associations

CHRISTOPHER S RENZ	ROBERTO G REYNOSO
KAUSHALYA SIRIWARDANA	DANIEL HEIM
DENISE D DAWSON	RAYMOND R QUIRK
SALVADOR GARCIA	GLORIA ELGAN
AURA CASTANEDA	PATSY J LOGSDON
AMILLIO PATINO	SARA POST LEE
IRA O KIRKSEY	KOFI KYEREMATEN
MICHAEL L GRAVELLE	BEVERLY GULLETT
DANA L HADDOCK	GABRIELLE ALDOUPOLIS
DANIEL K MURPHY	CHRISTINE M STRAHAN
JASON M PITTS	ILANA R YOFFE
JACQUELINE SMITH	JULIE BECKER
EDWARD W DEWEY	ESCUBAR MOORE
TIMOTHY J KAURICH	CHRISTINE A BOSY

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KEITH R ISAACS	SARA J LEE
JOHN L LOHR	LORRAINE G KROLAK
ANNA L RELORCAZA	MICHAEL LEE GRAVELLE
KATARINA K MURILLO	YULE T MITCHELL JR
GREGORY J BONAM	MEGAN S HOLLAND
JAMES E SLAWINSKI	ROBERT C MATHEWS
TODD C JOHNSON	FRANK J CAPPELLUTI JR
PRIYADARSHAN GUPTA	NICHOLAS H LEISLE
MICHAEL S GRAVELLE	MICHAEL GRAVELLE
SARAH K LEE	PATRICK G FARENGA
FRANCINE DONOVAN	THERESA CORONA
CAMERON VARGAS	ALAN T LAWRENCE
NINA L FAHIMI	ROBERT J BOYLE
MARILYN C SUPALO	THERESA H DUNNE
AMY N ANDERSEN	ESCUBAR MOORE
KELLY SHEWMAN	LINDA R WILSON
KATIA C BEZERRA	CHERYL L SMITH
JACOB E DEBERRY	CAROL J CIMETTI
GARY E FINCH	KAREN SREBACIC
DAVID DAHLSTROM	BRITANY MATLOCK
STEVEN R LEISLE	MICHAEL GRAVELLE
JOHN D SITES	MARGARET OBRIEN
ROBERT CLARKE	SARAH M LEE
DAVID DAHLSTROM	COLLEEN CANNIZZO
BRITTANY BILLINGS	MICHEL L GRAVELLE
MARIA A NAVAS	JOHN R PEEBLES
ROCIO V ALZER	STEVEN F FEJDASZ
DANETTE M LEISLE	CRISTINA LEHMAN
JACQUELINE L SIGETI	RYAN TESSMER
CANDACIE C COLEMAN	JOSEPH J PANTE
LEIGH LEISLE	EVAN R LUBERDA
WILLIAM C ROSS JR	LYNDON L GRAVELLE
JAMES P MICHALEK	CAROL J ABURTO
HEATHER A CONLEY	DANIEL R FAVELA
CARLTON COPE	DANIEL M LEISLE
KENDAL SMITH	MARJORIE NEMZURA
BRIAN R BARTSCH	ROBERTO G REYNOSO
RACHEL A PETERSON	ROBERT M RODRIGUEZ

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CATHERINE S REILLY	DEVIN G STRUTTMANN
EDWARD J DEWEY	MICHAEL L GRAVELLE
DALE P HUFFMAN	ANTHONY J PARK
SONIA E KLUNK	CARA ARNTSON
CARL R TSCHIRHART	PATRICK J TYRRELL
HARRY WEISS	KAREN L JOHNSON
ADAM MOORE	JOSE I RODRIGUEZ
JOHNNY D PAGE JR	GREGORY CAMPI

Business Associations

DURANGO SILVERTON REALTY, INC	BANK OF AMERICA
OLD HOME BAKERY	SARALEE
WELLS FARGO HM MTG	

No Documents Found

No Documents Were Found In These Sources

Aircraft Records	Bankruptcy Records
BusFindUS	Conceal & Carry Weapons Permits
Death Records	Divorce Records
DMI	Email Address Records
Executive Bios	FBN/DBA
FEIN	Healthcare Licenses
Lawsuit Records	Liens & Judgments
Marriage Records	New Movers Records
Political Donors	Professional Licenses
Real Property Pre-Foreclosure Records	Stock
UCC Records	Unclaimed Assets
Watercraft Records	

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DPPA - For use in connection with a civil, criminal, or arbitral legal proceeding or legal research.
GLB - For use in complying with a properly authorized civil, criminal, or regulatory investigation, subpoena, or summons by federal, state, or local authorities.
VOTERS - Use in connection with a non-commercial purpose.
Skip Tracing for Consumer Collections Declaration - Are you using this product for skip tracing related to consumer debt collection? - No

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Possible People Information 2
Person Overview 2
Date of Birth Summary 2
SSN Summary 2
Name Variations 2
Addresses 3
Voter Registrations 4
Phone Numbers 4
Possible Asset Information 4
Real Property Tax Assessor Records 4
Real Property Transactions 5
Vehicle Registrations 5
Possible Business & Employment 5
Corporate Records & Business Registrations 5
Full-Text Documents 5
All Full-Text Documents 6
Possible Relatives & Household Members 89
Household Records 89
Possible Named Parties 90
People Associations 90
Business Associations 91
No Documents Found 91
No Documents Were Found In These Sources 91
Permissible Uses and FCRA Disclaimer 91
Permissible Uses 91

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Possible People Information

Person Overview

DEAN COX

95 CLOVER LN

PAGOSA SPGS, CO 81147-7738 | ARCHULETA County

Phone Number(s):

970-264-2012

970-731-0902

SSN:

523-48-XXXX - issued in CO in 1955-1956

DOB:

10/XX/1940 (Age: 79)

Date of Birth Summary

Date of Birth	Source
10/XX/1940 (Age: 79)	Address Historical #1 | Address Historical #2 | People Find | People Household #1 | People Household #2
09/XX/1941 (Age: 78)	People Find | People Historical
12/1952	People Household

SSN Summary

SSN	Source
523-48-XXXX - issued in CO in 1955-1956	People Find | People Historical #1 | People Historical #2

Name Variations

Name	Source
GARY D COX	Address Historical #1 | Address Historical #2 | People Find
MR GARY D COX	People Find | People Household #1 | People Household #2
MR DEAN G COX	People Find | People Household #1 | People Household #2
G DEAN COX	Voters Registration
DEAN G COX	People Historical
D COX	People Find
DEAN D COX	People Find

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GARY COX	People Find

Addresses

Address	
95 CLOVER LN, PAGOSA SPGS, CO 81147-7738 | ARCHULETA County	
Reported 01/01/1999 - 05/04/2020	
By People Household 01/01/1999 - 10/31/2019	People Household #1 | People Household #2
By Motor Vehicle 10/05/2007 - 04/24/2019	Motor Vehicle #1 | Motor Vehicle #2 | Motor Vehicle #3 | Motor Vehicle #4 | Motor Vehicle #5 | Motor Vehicle #6 | Motor Vehicle #7 | Motor Vehicle #8 | Motor Vehicle #9
By People Find 01/24/2003 - 01/24/2003	People Find
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2
By Real Property Tax Assessor	Real Property Tax Assessor #1 | Real Property Tax Assessor #2
By Voters Registration	Voters Registration
119 BASTILLE DR, PAGOSA SPRINGS, CO 81147-9388 | ARCHULETA County	
Reported 01/01/2013 - 08/31/2013	
By People Household 01/01/2013 - 06/30/2013	People Household
12224 W VILLA CHULA LN, SUN CITY, AZ 85373-5625 | MARICOPA County	
Reported 01/01/2011 - 10/31/2012	
By People Household 01/01/2011 - 10/31/2012	People Household
By Real Property Deeds	Real Property Deeds
86 23 MILES HW, TEN SLEEP, WY 82442	
Reported 01/24/2003 - 01/24/2003	
By People Find 01/24/2003 - 01/24/2003	People Find
PO BOX 86, TEN SLEEP, WY 82442-0086 | WASHAKIE County	
Reported 01/01/1993 - 01/24/2003	
By People Find 11/13/2000 - 11/13/2000	People Find
By People Historical 01/01/1993 - 12/31/1993	People Historical
23 E MILES HWY UNIT 86, TEN SLEEP, WY 82442 | WASHAKIE County	
Reported 12/01/1998 - 12/01/1998	
By People Find 12/01/1998 - 12/01/1998	People Find
86 23 E MILES HW, TEN SLEEP, WY 82442 | WASHAKIE County	
Reported 12/01/1998 - 12/01/1998	
By People Find 12/01/1998 - 12/01/1998	People Find
PO BOX 63, GEORGETOWN, CO 80444-0063 | CLEAR CREEK County	
Reported 01/01/1989 - 12/31/1989	
By People Historical 01/01/1989 - 12/31/1989	People Historical
1 STAR 1, NEDERLAND, CO 80466 | BOULDER County	

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Reported 01/01/1988 - 12/31/1988	
By People Historical 01/01/1988 - 12/31/1988	People Historical
480 S BEAVER CREEK RD, BLACK HAWK, CO 80422-4557 | GILPIN County	
Reported N/A	
By People Historical	People Historical
22 MILES TENSLEEP E, TEN SLEEP, WY 82442 | WASHAKIE County	
Reported N/A	
By Address Historical	Address Historical
124 FAIRWAY LN, GLENWOOD SPRINGS, CO 81601-9515 | GARFIELD County	
Reported N/A	
By Address Historical	Address Historical
721 CLINT CIR, PAGOSA SPRINGS, CO 81147 | ARCHULETA County	
Reported N/A	
By Real Property Tax Assessor	Real Property Tax Assessor
96 CLOVER LN, PAGOSA SPRINGS, CO 81147 | ARCHULETA County	
Reported N/A	
By Real Property Tax Assessor	Real Property Tax Assessor
PAGOSA SPRINGS, CO 81147 | ARCHULETA County	
Reported N/A	
By Real Property Deeds	Real Property Deeds

Voter Registrations

Political Party	Last Voted Date	Confidence Score	View Full Text
NON DECLARED	11/06/2018	78%	Full-Text

Phone Numbers

Phone	Source
970-264-2012	People Find | People Household #1 | People Household #2
970-731-0902	People Household

Possible Asset Information

Real Property Tax Assessor Records

Property Address	Assessed Total Value	Tax Year	Confidence Score	View Full Text
95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738	$17,730.00	2019	99%	Full-Text

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Property Address	Assessed Total Value	Tax Year	Confidence Score	View Full Text
721 CLINT CIR PAGOSA SPRINGS, CO 81147	$9,460.00	2019	78%	Full-Text
	$9,687.00		96%	Full-Text

Real Property Transactions

Property Address	Sale Price	Mortgage Amount	Recording Date	Confidence Score	View Full Text
CO			04/11/2014	89%	Full-Text
PAGOSA SPRINGS, CO 81147	$78,700.00	$53,113.00	05/12/2005	62%	Full-Text

Vehicle Registrations

Year	Make	Model	Registration Date	Confidence Score	View Full Text
Current Motor Vehicles					
1994	HMD		10/13/2005	99%	Full-Text
Historical Motor Vehicles					
2018	TOYOTA	TACOMA	06/11/2019	99%	Full-Text
2004	MERCURY	MOUNTAINEER	01/02/2019	99%	Full-Text
2012	CHEVROLET	SILVERADO 1500	07/20/2018	97%	Full-Text
2007	CHEVROLET	SILVERADO CLASSIC 2500	07/21/2017	99%	Full-Text
2014	BIGT		05/02/2014	99%	Full-Text
1998	CHEVROLET	C/K1500	12/01/2000	97%	Full-Text
2014	KIA	SORENTO		97%	Full-Text
1993	SARC			99%	Full-Text

Possible Business & Employment

Corporate Records & Business Registrations

Business Name	Business Address	Confidence Score	View Full Text
MEADOWLARK LAKE RESORT CORP.	%DEAN COX;P.O. BOX 86 TEN SLEEP, WY 82442	85%	Full-Text

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Full-Text Documents

All Full-Text Documents

Voter Registrations (1)

To Summary

Voter Registration Record

Source Information

Information Current Through:	01/07/2020
Database Last Updated:	05/22/2020
Update Frequency:	ANNUAL
Current Date:	08/12/2020

Voter History

General 2012	VOTED
Other 2011	VOTED
General 2010	VOTED
Primary 2008	VOTED
Other 2008	VOTED
Last Date Voted:	11/06/2018

Name and Personal Information

Name:	G DEAN COX
Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Home Phone:	970-264-2012

Demographic Information

Date of Birth:	/XX1940
Age:	65+
Gender:	MALE
Political Party:	NON DECLARED

Registration Information

Voter Identification Number:	4756761
Motor Voter Identification Number:	830788
Registration Date:	07/31/2000

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Historical People Records (2)

To Summary

People Historical

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Individual Information

Name:	COX, DEAN G
SSN:	523-48-XXXX
Date of Birth:	09/XX/1941
On File Since:	07/01/1992

Historical Address Information

Address 1:	PO BOX 86 TEN SLEEP, WY 82442-0086
Address Last Reported:	1993
Address Type:	PO BOX ADDRESS

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To Summary

People Historical

Individual Information

Name:	COX, DEAN
SSN:	523-48-XXXX
On File Since:	12/01/1976

Historical Address Information

Address 1:	PO BOX 63 GEORGETOWN, CO 80444-0063
Address Last Reported:	1989
Address Type:	PO BOX ADDRESS
Address 2:	1 STAR 1 NEDERLAND, CO 80466
Address Last Reported:	1988
Address 3:	480 S BEAVER CREEK RD BLACK HAWK, CO 80422

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Historical Address Records (2)

To Summary

Address Historical

Individual Information

Name:	COX, GARY D
Date of Birth:	10/XX/1940

Historical Address Information

Address:	22 MILES TENSLEEP E TEN SLEEP, WY 82442

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To Summary

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Address Historical

Individual Information

Name:	COX, GARY D
Date of Birth:	10/XX/1940

Historical Address Information

Address:	124 FAIRWAY LN GLENWOOD SPRINGS, CO 81601-9515

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People Find Records (1)

To Summary

People Finder - Historic Tracker Record

Source Information

Information Current Through:	06/30/2020
Database Last Updated:	07/07/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	TRANS UNION

Last Known Address Information

Current Address:	PO BOX 86 TEN SLEEP, WY 82442-0086
Phone Number 1:	970-264-2012
Address First Reported:	09/01/1999

Individual Information

Name:	COX, DEAN G
Also Known As:	COX, DEAN COX, GARY D COX, D COX, DEAN D COX, GARY
SSN:	523-48-XXXX
Date of Birth:	10/XX/1940
On File Since:	07/01/1992

Other Address Information

Previous Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Address First Reported:	08/01/1999
Previous Address:	23 E MILES HW 86 TEN SLEEP, WY 82442
Address First Reported:	12/01/1998

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Real Property Tax Assessor Records (3)

To Summary

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	02/01/2019
Owner Information Current Through:	06/24/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	COX KAREN POMA
	COX GARY DEAN
Absentee Owner:	OWNER OCCUPIED
Property Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

Property Information

County:	ARCHULETA
Assessor's Parcel Number:	570131306007
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	127631
Lot Acreage:	2.9300
Municipality:	PAG AREA WATER
Subdivision:	HOLIDAY ACRES 1
Legal Description:	SUBDIVISION: HOLIDAY ACRES 1 BLOCK: 1 LOT: 9 HA 1 SEC: 31 TWN: 35 RNG: 1W
Block Number:	1
Lot Number:	9
Range:	01W
Township:	35
Section:	31

Tax Assessment Information

Tax Year:	2019
Calculated Land Value:	$43,360.00
Calculated Improvement Value:	$204,610.00

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Calculated Total Value:	$247,970.00
Assessed Land Value:	$3,100.00
Assessed Improvement Value:	$14,630.00
Assessed Total Value:	$17,730.00
Market Land Value:	$43,360.00
Market Improvement Value:	$204,610.00
Market Total Value:	$247,970.00
Valuation Method:	MARKET
Tax Amount:	$656.64
Tax Code Area:	50W

Building/Improvement Characteristics

Building Type:	SINGLE FAMILY
Number of Buildings:	2
Year Built:	19850000
Total Area:	127631HOLIDAY ACRES AVERAG
Living Square Feet:	1260
Total Number of Rooms:	6
Number of Bedrooms:	2
Number of Bathrooms:	2.00
Full Baths:	1
Number of Stories:	1.00
Construction Quality:	AVERAGE
Exterior Wall Type:	LOG
Roof Type:	GABLE/HIP

Last Market Sale Information

Seller Name:	ISERMAN KAREN P
Deed Type:	QUIT CLAIM
Type of Sale:	RESALE
Recording Date:	11/09/2004
Document Number:	10335

Previous Transaction Information

Sale Price:	$4,000.00
Type of Sale:	RESALE
Number of Parcels:	Y Y
Recording Date:	08/01/1981
Recording Book/Page:	BOOK 182, PAGE 682

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2018
Calculated Land Value:	$41,610.00
Calculated Improvement Value:	$184,710.00
Calculated Total Value:	$226,320.00
Assessed Total Value:	$16,300.00
Assessor's Parcel Number:	570131306007
Absentee Owner:	OWNER OCCUPIED
Owner:	COX KAREN POMA, COX GARY DEAN
Property Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 2.	
Tax Year:	2017
Calculated Land Value:	$41,610.00
Calculated Improvement Value:	$184,710.00
Calculated Total Value:	$226,320.00
Assessed Total Value:	$16,300.00
Assessor's Parcel Number:	570131306007
Absentee Owner:	OWNER OCCUPIED
Owner:	COX KAREN POMA, COX GARY DEAN
Property Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 3.	
Tax Year:	2016
Calculated Land Value:	$30,470.00
Calculated Improvement Value:	$144,840.00
Calculated Total Value:	$175,310.00
Assessed Total Value:	$13,960.00
Assessor's Parcel Number:	570131306007
Absentee Owner:	OWNER OCCUPIED
Owner:	COX KAREN POMA, COX GARY DEAN
Property Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 4.	
Tax Year:	2015
Calculated Land Value:	$30,470.00
Calculated Improvement Value:	$144,840.00
Calculated Total Value:	$175,310.00
Assessed Total Value:	$13,960.00
Assessor's Parcel Number:	570131306007
Absentee Owner:	OWNER OCCUPIED
Owner:	COX KAREN POMA, COX GARY DEAN
Property Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$80,580.00
Calculated Improvement Value:	$95,380.00
Calculated Total Value:	$175,960.00
Assessed Total Value:	$14,000.00
Assessor's Parcel Number:	570131306007
Absentee Owner:	OWNER OCCUPIED
Owner:	ISERMAN KAREN POMA
Property Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 6.	
Tax Year:	2013
Calculated Land Value:	$80,580.00
Calculated Improvement Value:	$95,380.00
Calculated Total Value:	$175,960.00
Assessed Total Value:	$14,000.00
Assessor's Parcel Number:	570131306007
Absentee Owner:	OWNER OCCUPIED
Owner:	ISERMAN KAREN POMA
Property Address:	95 CLOVER LN

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	PAGOSA SPRINGS, CO 81147-7738
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 7.	
Tax Year:	2012
Calculated Land Value:	$56,550.00
Calculated Improvement Value:	$132,630.00
Calculated Total Value:	$189,180.00
Assessed Total Value:	$15,060.00
Assessor's Parcel Number:	570131306007
Absentee Owner:	OWNER OCCUPIED
Owner:	ISERMAN KAREN POMA
Property Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 8.	
Tax Year:	2011
Calculated Land Value:	$56,550.00
Calculated Improvement Value:	$132,630.00
Calculated Total Value:	$189,180.00
Assessed Total Value:	$15,060.00
Assessor's Parcel Number:	570131306007
Absentee Owner:	OWNER OCCUPIED
Owner:	ISERMAN KAREN POMA
Property Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 9.	
Tax Year:	2010
Calculated Land Value:	$113,980.00
Calculated Improvement Value:	$204,550.00
Calculated Total Value:	$318,530.00
Assessed Total Value:	$25,350.00
Assessor's Parcel Number:	570131306007
Absentee Owner:	OWNER OCCUPIED
Owner:	ISERMAN KAREN POMA

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 10.	
Tax Year:	2009
Calculated Land Value:	$113,980.00
Calculated Improvement Value:	$204,560.00
Calculated Total Value:	$318,540.00
Assessed Total Value:	$25,350.00
Assessor's Parcel Number:	570131306007
Absentee Owner:	OWNER OCCUPIED
Owner:	ISERMAN KAREN POMA
Property Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 11.	
Tax Year:	2009
Calculated Land Value:	$113,980.00
Calculated Improvement Value:	$204,560.00
Calculated Total Value:	$318,540.00
Assessed Total Value:	$25,350.00
Assessor's Parcel Number:	570131306007
Absentee Owner:	OWNER OCCUPIED
Owner:	ISERMAN KAREN POMA
Property Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 12.	
Tax Year:	2008
Calculated Land Value:	$65,925.00
Calculated Improvement Value:	$127,199.00
Calculated Total Value:	$193,124.00
Assessed Total Value:	$15,373.00
Assessor's Parcel Number:	570131306007
Absentee Owner:	OWNER OCCUPIED

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Owner:	ISERMAN KAREN POMA
Property Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 13.	
Tax Year:	2006
Calculated Land Value:	$24,905.00
Calculated Improvement Value:	$82,489.00
Calculated Total Value:	$107,394.00
Assessed Total Value:	$8,549.00
Assessor's Parcel Number:	570131306007
Absentee Owner:	OWNER OCCUPIED
Owner:	ISERMAN KAREN POMA
Property Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 14.	
Tax Year:	2004
Calculated Land Value:	$24,905.00
Calculated Improvement Value:	$82,489.00
Calculated Total Value:	$107,394.00
Assessed Total Value:	$8,549.00
Assessor's Parcel Number:	570131306007
Absentee Owner:	OWNER OCCUPIED
Owner:	ISERMAN KAREN POMA
Property Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

End of Document

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To Summary

Real Property Tax Assessor Record

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Source Information

Tax Roll Certification Date:	02/01/2019
Owner Information Current Through:	06/24/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	COX G DEAN
	COX KAREN M
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

Property Information

County:	ARCHULETA
Assessor's Parcel Number:	558324401131
Property Type:	VACANT
Land Use:	RESIDENTIAL LOT
Lot Size:	18731
Lot Acreage:	0.4300
Municipality:	PAWS
Subdivision:	RESERVE PAG PEAK PH4
Legal Description:	SUBDIVISION: RESERVE PAG PEAK PH4 LOT: 131 RPP 4 SEC: 24 TWN: 36 RNG: 2.5W
Lot Number:	131
Range:	02
Township:	36
Section:	24

Tax Assessment Information

Tax Year:	2019
Calculated Land Value:	$32,620.00
Calculated Total Value:	$32,620.00
Assessed Land Value:	$9,460.00
Assessed Total Value:	$9,460.00

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Market Land Value:	$32,620.00
Market Total Value:	$32,620.00
Valuation Method:	MARKET
Tax Amount:	$649.60
Tax Code Area:	50P

Building/Improvement Characteristics

Total Area:	18731RPP4

Last Market Sale Information

Sale Date:	05/09/2005
Seller Name:	RESERVE OF PAGOSA PEAK LLC
Sale Price:	$78,700.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Mortgage Amount:	$53,113.00
Mortgage Loan Type:	CONVENTIONAL
Mortgage Term:	15 YEARS
Mortgage Deed Type:	DEED OF TRUST
Lender Name:	BANK OF CO
Recording Date:	05/12/2005
Document Number:	4563
Title Company:	HIGH COUNTRY TITLE

Previous Transaction Information

Previous Document Number:	1430
Type of Sale:	RESALE
Multiple Parcel Sale:	MULTI - DETAIL PARCEL SALE
Number of Parcels:	Y
Recording Date:	02/17/2005

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2018
Calculated Land Value:	$22,750.00
Calculated Total Value:	$22,750.00
Assessed Total Value:	$6,600.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Owner:	COX KAREN M, COX G DEAN
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 2.	
Tax Year:	2017
Calculated Land Value:	$22,750.00
Calculated Total Value:	$22,750.00
Assessed Total Value:	$6,600.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 3.	
Tax Year:	2016
Calculated Land Value:	$66,330.00
Calculated Total Value:	$66,330.00
Assessed Total Value:	$19,240.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 4.	
Tax Year:	2015
Calculated Land Value:	$66,330.00
Calculated Total Value:	$66,330.00
Assessed Total Value:	$19,240.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$56,210.00
Calculated Total Value:	$56,210.00
Assessed Total Value:	$16,300.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 6.	
Tax Year:	2013
Calculated Land Value:	$56,210.00
Calculated Total Value:	$56,210.00
Assessed Total Value:	$16,300.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 7.	
Tax Year:	2012
Calculated Land Value:	$56,210.00
Calculated Total Value:	$56,210.00
Assessed Total Value:	$16,300.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 8.	
Tax Year:	2011
Calculated Land Value:	$56,210.00
Calculated Total Value:	$56,210.00
Assessed Total Value:	$16,300.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 9.	
Tax Year:	2010
Calculated Land Value:	$102,200.00
Calculated Total Value:	$102,200.00
Assessed Total Value:	$29,640.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 10.	
Tax Year:	2010
Calculated Land Value:	$102,200.00
Calculated Total Value:	$102,200.00
Assessed Total Value:	$29,640.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical Tax Assessor Record: 11.	
Tax Year:	2009
Calculated Land Value:	$102,200.00
Calculated Total Value:	$102,200.00
Assessed Total Value:	$29,640.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 12.	
Tax Year:	2009
Calculated Land Value:	$102,200.00
Calculated Total Value:	$102,200.00
Assessed Total Value:	$29,640.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 13.	
Tax Year:	2008
Calculated Land Value:	$77,400.00
Calculated Total Value:	$77,400.00
Assessed Total Value:	$22,446.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 14.	
Tax Year:	2006

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Land Value:	$121,317.00
Calculated Total Value:	$121,317.00
Assessed Total Value:	$35,182.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 15.	
Tax Year:	2004
Calculated Land Value:	$109,697.00
Calculated Total Value:	$109,697.00
Assessed Total Value:	$31,812.00
Assessor's Parcel Number:	558324401131
Owner:	RESERVE AT PAGOSA PEAK LLC
Property Address:	721 CLINT CIR
Mailing Address:	PO BOX 3310 PAGOSA SPRINGS, CO 81147-3310

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	COX GARY DEAN
	COX KAREN M

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	96 CLOVER LN PAGOSA SPRINGS, CO 81147

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290100010044
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	449975
Lot Acreage:	10.3300
Legal Description:	NEW YORK 15112 10.33 AC.

Tax Assessment Information

Estimated Tax Year:	2011
Calculated Land Value:	$75,000.00
Calculated Improvement Value:	$46,698.00
Calculated Total Value:	$121,698.00
Assessed Total Value:	$9,687.00
Market Land Value:	$75,000.00
Market Improvement Value:	$46,698.00
Market Total Value:	$121,698.00
Valuation Method:	MARKET
Tax Code Area:	101

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	20080000
Total Area:	449975
Living Square Feet:	481
Total Number of Rooms:	4
Number of Bedrooms:	2
Number of Bathrooms:	1.00
Full Baths:	1
Number of Stories:	2.00
Style/Shape:	CABIN
Construction Quality:	AVERAGE
Exterior Wall Type:	ALUMINUM
Foundation Type:	CONCRETE

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Last Market Sale Information

Sale Date:	01/30/2004
Seller Name:	ASARCO INC
Sale Price:	$27,900.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	2004
Document Number:	143242

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2008
Calculated Land Value:	$75,000.00
Calculated Improvement Value:	$18,010.00
Calculated Total Value:	$93,010.00
Assessor's Parcel Number:	48290100010044
Owner:	COX GARY DEAN, COX KAREN M
Property Address:	CO
Mailing Address:	96 CLOVER LN PAGOSA SPRINGS, CO 81147

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

End of Document

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Real Property Transactions (2)

To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	07/15/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020

Transaction Information

Transaction Date:	05/09/2005
Seller Name:	RESERVE OF PAGOSA PEAK LLC
Sale Price:	$78,700.00
Deed Type:	GRANT DEED

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Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	G D COX
Property Address:	PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

Property Information

County:	ARCHULETA
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE

Document Type:	WARRANTY DEED
Type of Transaction:	SUBDIVISION/NEW CONSTRUCTION
Mortgage Amount:	$53,113.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	15 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	05/11/2005
Mortgage Due Date:	05/11/2020
Lender Name:	BANK OF CO
Address:	PAGOSA SPRINGS, CO 81147
Recording Date:	05/12/2005
Document Number:	4563
	HIGH COUNTRY TITLE
Construction Type:	SALE IS FOR NEW CONSTRUCTION
Equity Loan:	YES

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

End of Document

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To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	04/11/2013
Seller Name:	DEAN GARY
Deed Type:	QUIT CLAIM DEED
Document Type:	QUIT CLAIM DEED
Type of Transaction:	NOMINAL
Recording Date:	04/11/2014
Document Number:	149483
Construction Type:	SALE IS A RE-SALE

Owner Information

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Owner(s):	GARYE D COX	**InterFamily Transaction:**	RELEASE OF DEED OF TRUST/MTG
Ownership Rights:	TENANTS IN COMMON		
Property Address:	CO		
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738		

Property Information

County:	SAN JUAN
Property Type:	MISCELLANEOUS

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

End of Document

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Vehicle Registrations (9)

To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	5XYKTCA69EG452731
Vehicle Type:	PASSENGER CAR
Model Year:	2014
Make:	KIA
Body Style:	SUV 4D 5P
Model/Series:	SORENTO LX

Title Information:

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Original Title Date:	03/18/2020
Title Number:	003517717
Name:	USAA
Interest:	OWNER
Title Transaction Date:	03/18/2020
Mailing Address:	8300 BLAKELAND DR LITTLETON, CO 80125-9741
County:	DOUGLAS
Physical Address:	8300 BLAKELAND DR LITTLETON, CO 80125-9741
County:	DOUGLAS
Name:	ASHLEY MCDONALD
Interest:	OWNER
Title Transaction Date:	02/26/2020
Mailing Address:	PO BOX 604 604 KIOWA, CO 80117-0604
County:	ELBERT
Physical Address:	100 UTE AVE C4 KIOWA, CO 80117-9370
County:	ELBERT

Lien Holder Information

Name:	ENT. CREDIT UNION
Interest:	LIEN HOLDER
Mailing Address:	PO BOX 15819 15819 COLORADO SPRINGS, CO 80935-5819
County:	EL PASO

Historical DMV Record 1

Registration Renewal Date:	08/29/2019
Expiration Date:	08/31/2020
License Plate Number:	LYO923
Issuing State:	CO
Previous Plate Number:	LYO923
Previous Plate State:	CO
Name:	ASHLEY MCDONALD
Interest:	REGISTRANT

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	PO BOX 604 604 KIOWA, CO 80117-0604
County:	ELBERT
Physical Address:	100 UTE AVE KIOWA, CO 80117-9370
County:	ELBERT

Historical DMV Record 2

Registration Renewal Date:	08/14/2018
Expiration Date:	08/31/2019
License Plate Number:	LYO923
Issuing State:	CO
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	ASHLEY MCDONALD
Interest:	REGISTRANT
Mailing Address:	PO BOX 604 604 KIOWA, CO 80117-0604
County:	ELBERT
Physical Address:	100 UTE AVE KIOWA, CO 80117-9370
County:	ELBERT
Title Transfer Date:	08/01/2018
Name:	ENT. CREDIT UNION
Interest:	LIEN HOLDER
Mailing Address:	PO BOX 15819 15819 COLORADO SPRINGS, CO 80935-5819
County:	EL PASO
Title Transfer Date:	08/01/2018
Name:	ASHLEY MCDONALD
Interest:	OWNER
Mailing Address:	PO BOX 604 604 KIOWA, CO 80117-0604
County:	ELBERT
Physical Address:	100 UTE AVE

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	KIOWA, CO 80117-9370
County:	ELBERT
Title Transfer Date:	08/01/2018
Name:	ENT. CREDIT UINON
Interest:	LIEN HOLDER
Mailing Address:	PO BOX 15819 15819 COLORADO SPRINGS, CO 80935-5819
County:	EL PASO

Historical DMV Record 3

Registration Renewal Date:	09/06/2017
Expiration Date:	08/31/2018
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	09/06/2017
Expiration Date:	08/31/2018
Name:	DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 4

Registration Renewal Date:	08/29/2016

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Expiration Date:	08/31/2017
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	08/29/2016
Expiration Date:	08/31/2017
Name:	DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 5

Registration Renewal Date:	07/30/2015
Expiration Date:	08/31/2016
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	COX KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN

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	PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 6

Registration Renewal Date:	08/06/2014
Expiration Date:	08/31/2015
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Name:	KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	08/06/2014
Expiration Date:	08/31/2015
Name:	DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	03/14/2014
Name:	KAREN COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	03/14/2014
Name:	DEAN COX
Interest:	OWNER

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Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 7

Title Transfer Date:	08/22/2013
Name:	DEAN COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

End of Document

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	1GCEK19M4WE118625
Vehicle Type:	PASSENGER CAR
Model Year:	1998
Make:	CHEVROLET
Body Style:	EXTENDED CAB 2D
Model/Series:	C/K1500 CHEYENNE SILVERADO

Registration Information

License Plate Number:	18756D

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Registration Renewal Date:	05/04/2020
Expiration Date:	05/31/2021
Registrant(s) Since:	12/01/2000
Name:	KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	05/04/2020
Expiration Date:	05/31/2021
Registrant(s) Since:	12/01/2000
Name:	GARY D. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Title Information:

Original Title Date:	04/21/2014
Title Number:	48E137597
Name:	KAREN COX
Interest:	OWNER
Title Transaction Date:	04/28/2014
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Name:	GARY D. COX
Interest:	OWNER
Title Transaction Date:	04/28/2014
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 1

Registration Renewal Date:	04/24/2019
Expiration Date:	05/31/2020
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Name:	GARY D. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/24/2019
Expiration Date:	05/31/2020
Name:	KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 2

Registration Renewal Date:	05/07/2018

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Expiration Date:	05/31/2019
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Name:	KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	05/07/2018
Expiration Date:	05/31/2019
Name:	GARY D. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 3

Registration Renewal Date:	05/12/2017
Expiration Date:	05/31/2018
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Name:	KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN

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	PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	05/12/2017
Expiration Date:	05/31/2018
Name:	GARY D. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 4

Registration Renewal Date:	04/21/2014
Expiration Date:	04/30/2015
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Name:	KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/21/2014
Expiration Date:	04/30/2015
Name:	GARY COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Title Transfer Date:	04/21/2014
Name:	GARY COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/03/2014
Expiration Date:	04/30/2015
Name:	MEADOWLARK LAKE RESORT
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/03/2014
Expiration Date:	04/30/2015
Name:	GMAC
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 5

Registration Renewal Date:	04/08/2013
Expiration Date:	04/30/2014
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Name:	MEADOWLARK LAKE RESORT

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Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/08/2013
Expiration Date:	04/30/2014
Name:	GMAC
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 6

Registration Renewal Date:	04/03/2012
Expiration Date:	04/30/2013
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Name:	MEADOWLARK LAKE RESORT
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/03/2012
Expiration Date:	04/30/2013
Name:	GMAC
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 7

Registration Renewal Date:	03/31/2010
Expiration Date:	04/30/2011
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Name:	MEADOWLARK LAKE RESORT
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	03/31/2010
Expiration Date:	04/30/2011
Name:	GMAC
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 8

Registration Renewal Date:	04/13/2009
Expiration Date:	04/30/2010
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Previous Plate Number:	18756D
Previous Plate State:	CO
Name:	MEADOWLARK LAKE RESORT
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/13/2009
Expiration Date:	04/30/2010
Name:	GMAC
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 9

Registration Renewal Date:	10/31/2007
Expiration Date:	11/30/2008
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Name:	GMAC
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	10/31/2007
Expiration Date:	11/30/2008

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Name:	LAKE MEADOWLARK
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 10

Registration Renewal Date:	11/14/2006
Expiration Date:	11/30/2007
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Name:	GMAC
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	11/14/2006
Expiration Date:	11/30/2007
License Plate Number:	18756D
Issuing State:	CO
Name:	GMAC
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	11/14/2006
Expiration Date:	11/30/2007

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Name:	LAKE MEADOWLARK
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 11

Title Transfer Date:	12/01/1999
Name:	GMAC
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	12/01/1999
Name:	LAKE MEADOWLARK
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

End of Document

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	4M2ZU86W54ZJ36271
Vehicle Type:	PASSENGER CAR
Model Year:	2004
Make:	MERCURY
Body Style:	SUV WAGON 4D
Model/Series:	MOUNTAINEER BASE

Registration Information

License Plate Number:	GOT868
Issuing State:	CO
Previous Plate Number:	491LDQ
Previous Plate State:	CO
Registration Renewal Date:	01/02/2019
Expiration Date:	01/31/2020
Registrant(s) Since:	01/02/2019
Name:	TILDEN BRANDON
Interest:	REGISTRANT
Mailing Address:	25369 ROAD L CORTEZ, CO 81321-8808
County:	MONTEZUMA
Physical Address:	25369 ROAD L CORTEZ, CO 81321-8808
County:	MONTEZUMA

Title Information:

Original Title Date:	01/02/2019
Title Number:	001171024
Name:	TILDEN BRANDON
Interest:	OWNER
Title Transaction Date:	01/02/2019
Mailing Address:	25369 ROAD L CORTEZ, CO 81321-8808
County:	MONTEZUMA
Physical Address:	25369 ROAD L CORTEZ, CO 81321-8808
County:	MONTEZUMA

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical DMV Record 1

Registration Renewal Date:	04/06/2018
Expiration Date:	04/30/2019
License Plate Number:	491LDQ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	491LDQ
Previous Plate State:	CO
Name:	EXCLUSIVE REMODEL & HOME REPAIR
Interest:	REGISTRANT
Mailing Address:	10 TOWN PLZ DURANGO, CO 81301-5104
County:	LA PLATA
Physical Address:	120 BIG PINE TRL DURANGO, CO 81301-7788
County:	LA PLATA

Historical DMV Record 2

Registration Renewal Date:	01/31/2017
Expiration Date:	01/31/2018
License Plate Number:	491LDQ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	491LDQ
Previous Plate State:	CO
Name:	EXCLUSIVE REMODEL & HOME REPAIR
Interest:	REGISTRANT
Mailing Address:	10 TOWN PLZ DURANGO, CO 81301-5104
County:	LA PLATA
Physical Address:	120 BIG PINE TRL DURANGO, CO 81301-7788
County:	LA PLATA

Historical DMV Record 3

Registration Renewal Date:	12/21/2015
Expiration Date:	01/31/2017
License Plate Number:	491LDQ

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	491LDQ
Previous Plate State:	CO
Name:	EXCLUSIVE REMODEL & HOME REPAIR
Interest:	REGISTRANT
Mailing Address:	10 TOWN PLZ DURANGO, CO 81301-5104
County:	LA PLATA
Physical Address:	120 BIG PINE TRL DURANGO, CO 81301-7788
County:	LA PLATA

Historical DMV Record 4

Registration Renewal Date:	01/28/2014
Expiration Date:	01/31/2015
License Plate Number:	491LDQ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	EXCLUSIVE REMODEL & HOME REPAIR
Interest:	REGISTRANT
Mailing Address:	120 BIG PINE TRL DURANGO, CO 81301-7788
County:	LA PLATA
Physical Address:	120 BIG PINE TRL DURANGO, CO 81301-7788
County:	LA PLATA
Title Transfer Date:	01/28/2014
Name:	EXCLUSIVE REMODEL & HOME REPAIR
Interest:	OWNER
Mailing Address:	120 BIG PINE TRL DURANGO, CO 81301-7788
County:	LA PLATA
Physical Address:	120 BIG PINE TRL DURANGO, CO 81301-7788
County:	LA PLATA

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Historical DMV Record 5

Title Transfer Date:	07/02/2013
Name:	KAREN MARIE COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	07/02/2013
Name:	GARY DEAN COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	01/30/2013
Expiration Date:	01/31/2014
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	KAREN MARIE COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	01/30/2013
Expiration Date:	01/31/2014
Name:	GARY DEAN COX
Interest:	REGISTRANT

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 6

Registration Renewal Date:	01/10/2012
Expiration Date:	01/31/2013
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	KAREN MARIE COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	01/10/2012
Expiration Date:	01/31/2013
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 7

Registration Renewal Date:	02/25/2011
Expiration Date:	01/31/2012
License Plate Number:	969AXS
Issuing State:	CO

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	KAREN MARIE COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	02/25/2011
Expiration Date:	01/31/2012
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 8

Registration Renewal Date:	01/06/2010
Expiration Date:	01/31/2011
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	KAREN MARIE COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	01/06/2010

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Expiration Date:	01/31/2011
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 9

Registration Renewal Date:	01/20/2009
Expiration Date:	01/31/2010
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	KAREN MARIE COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	01/20/2009
Expiration Date:	01/31/2010
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 10

Registration Renewal Date:	04/19/2007

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Expiration Date:	05/31/2008
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/19/2007
Expiration Date:	05/31/2008
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/19/2007
Expiration Date:	05/31/2008
Name:	KAREN MARIE COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/19/2007
Expiration Date:	05/31/2008
Name:	GARY D. COX
Interest:	REGISTRANT

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 11

Registration Renewal Date:	04/27/2006
Expiration Date:	05/31/2007
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/27/2006
Expiration Date:	05/31/2007
License Plate Number:	969AXS
Issuing State:	CO
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 12

Registration Renewal Date:	06/01/2005
Expiration Date:	05/31/2006

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License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	06/01/2005
Expiration Date:	05/31/2006
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 13

Title Transfer Date:	05/19/2004
Name:	KAREN MARIE COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	05/19/2004
Name:	GARY D. COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

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County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	05/19/2004
Name:	KAREN M. COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	05/19/2004
Name:	FORD MOTOR CREDIT CO.
Interest:	LIEN HOLDER
Mailing Address:	7900 TRAID CENTER BLVD ATLANTA, GA 30348
County:	FULTON
Title Transfer Date:	05/19/2004
Name:	GARY DEAN COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

End of Document

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	16VAX121XE2A27253
Vehicle Type:	UNKNOWN
Model Year:	2014
Make:	BIGT
Body Style:	TRAILER UTILIT

Registration Information

License Plate Number:	502IBQ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	502IBQ
Previous Plate State:	CO
Registration Renewal Date:	05/04/2020
Expiration Date:	05/31/2021
Registrant(s) Since:	05/02/2014
Name:	GARY D. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Title Information:

Original Title Date:	05/02/2014
Title Number:	48E137759
Name:	GARY D. COX
Interest:	OWNER
Title Transaction Date:	05/12/2014
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

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Historical DMV Record 1

Registration Renewal Date:	04/24/2019
Expiration Date:	05/31/2020
License Plate Number:	502IBQ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	502IBQ
Previous Plate State:	CO
Name:	GARY D. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 2

Registration Renewal Date:	05/07/2018
Expiration Date:	05/31/2019
License Plate Number:	502IBQ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	502IBQ
Previous Plate State:	CO
Name:	GARY D. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 3

Registration Renewal Date:	04/20/2017
Expiration Date:	05/31/2018
License Plate Number:	502IBQ

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	502IBQ
Previous Plate State:	CO
Name:	GARY D. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 4

Registration Renewal Date:	05/02/2016
Expiration Date:	05/31/2017
License Plate Number:	502IBQ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	502IBQ
Previous Plate State:	CO
Name:	GARY D. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 5

Registration Renewal Date:	06/22/2015
Expiration Date:	05/31/2016
License Plate Number:	502IBQ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	502IBQ
Previous Plate State:	CO
Name:	GARY D. COX

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Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 6

Registration Renewal Date:	05/02/2014
Expiration Date:	05/31/2015
License Plate Number:	502IBQ
Issuing State:	CO
Plate Type:	TRAILER
Name:	GARY D. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	1GCHK29U27E124511
Vehicle Type:	PASSENGER CAR
Model Year:	2007
Make:	CHEVROLET

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Body Style:	EXTENDED CAB 4D
Model/Series:	SILVERADO CLASSIC 2500 LS LT W/T

Registration Information

License Plate Number:	DOW513
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	DOW513
Previous Plate State:	CO
Registration Renewal Date:	08/29/2019
Expiration Date:	07/31/2020
Registrant(s) Since:	07/21/2017
Name:	JAMIE WOOD
Interest:	REGISTRANT
Mailing Address:	698 FOXFARM CIR BAYFIELD, CO 81122-8846
County:	LA PLATA
Physical Address:	698 FOXFARM CIR BAYFIELD, CO 81122-8846
County:	LA PLATA
Registration Renewal Date:	08/29/2019
Expiration Date:	07/31/2020
Registrant(s) Since:	07/21/2017
Name:	CARLA D. WOOD
Interest:	REGISTRANT
Mailing Address:	698 FOXFARM CIR BAYFIELD, CO 81122-8846
County:	LA PLATA
Physical Address:	698 FOXFARM CIR BAYFIELD, CO 81122-8846
County:	LA PLATA

Title Information:

Name:	JAMIE WOOD
Interest:	OWNER
Title Transaction Date:	06/05/2017
Mailing Address:	698 FOXFARM CIR BAYFIELD, CO 81122-8846
County:	LA PLATA

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Physical Address:	698 FOXFARM CIR BAYFIELD, CO 81122-8846
County:	LA PLATA
Name:	CARLA D. WOOD
Interest:	OWNER
Title Transaction Date:	06/05/2017
Mailing Address:	698 FOXFARM CIR BAYFIELD, CO 81122-8846
County:	LA PLATA
Physical Address:	698 FOXFARM CIR BAYFIELD, CO 81122-8846
County:	LA PLATA

Lien Holder Information

Name:	CREDIT ACCEPTANCE CORP.
Interest:	LIEN HOLDER
Mailing Address:	25505 W 12 MILE RD SOUTHFIELD, MI 48034-1846
County:	OAKLAND

Historical DMV Record 1

Registration Renewal Date:	10/04/2018
Expiration Date:	07/31/2019
License Plate Number:	DOW513
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	DOW513
Previous Plate State:	CO
Name:	JAMIE WOOD
Interest:	REGISTRANT
Mailing Address:	698 FOXFARM CIR BAYFIELD, CO 81122-8846
County:	LA PLATA
Physical Address:	698 FOXFARM CIR BAYFIELD, CO 81122-8846
County:	LA PLATA
Registration Renewal Date:	10/04/2018
Expiration Date:	07/31/2019
Name:	CARLA D. WOOD

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Interest:	REGISTRANT
Mailing Address:	698 FOXFARM CIR BAYFIELD, CO 81122-8846
County:	LA PLATA
Physical Address:	698 FOXFARM CIR BAYFIELD, CO 81122-8846
County:	LA PLATA

Historical DMV Record 2

Registration Renewal Date:	07/21/2017
Expiration Date:	07/31/2018
License Plate Number:	DOW513
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	409ZHW
Previous Plate State:	CO
Name:	JAMIE WOOD
Interest:	REGISTRANT
Mailing Address:	698 FOXFARM CIR BAYFIELD, CO 81122-8846
County:	LA PLATA
Physical Address:	698 FOXFARM CIR BAYFIELD, CO 81122-8846
County:	LA PLATA
Registration Renewal Date:	07/21/2017
Expiration Date:	07/31/2018
Name:	CARLA D. WOOD
Interest:	REGISTRANT
Mailing Address:	698 FOXFARM CIR BAYFIELD, CO 81122-8846
County:	LA PLATA
Physical Address:	698 FOXFARM CIR BAYFIELD, CO 81122-8846
County:	LA PLATA
Title Transfer Date:	05/19/2017
Name:	CREDIT ACCEPTANCE CORPORA
Interest:	LIEN HOLDER
Mailing Address:	25505 W 12 MILE RD SOUTHFIELD, MI 48034-1846

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	OAKLAND

Historical DMV Record 3

Registration Renewal Date:	05/23/2016
Expiration Date:	06/30/2017
License Plate Number:	409ZHW
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	409ZHW
Previous Plate State:	CO
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 4

Registration Renewal Date:	06/22/2015
Expiration Date:	06/30/2016
License Plate Number:	409ZHW
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	409ZHW
Previous Plate State:	CO
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 5

Registration Renewal Date:	04/21/2014
Expiration Date:	04/30/2015

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

License Plate Number:	409ZHW
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	452EVN
Previous Plate State:	CO
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	04/21/2014
Name:	GARY DEAN COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 6

Registration Renewal Date:	10/28/2013
Expiration Date:	10/31/2014
License Plate Number:	452EVN
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	452EVN
Previous Plate State:	CO
Name:	RAYMOND HINOJOSA
Interest:	REGISTRANT
Mailing Address:	152 DUTTON DR PAGOSA SPGS, CO 81147-8369
County:	ARCHULETA
Physical Address:	152 DUTTON DR PAGOSA SPGS, CO 81147-8369
County:	ARCHULETA

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Registration Renewal Date:	10/28/2013
Expiration Date:	10/31/2014
Name:	JUDY A. HINOJOSA
Interest:	REGISTRANT
Mailing Address:	152 DUTTON DR PAGOSA SPGS, CO 81147-8369
County:	ARCHULETA
Physical Address:	152 DUTTON DR PAGOSA SPGS, CO 81147-8369
County:	ARCHULETA

Historical DMV Record 7

Registration Renewal Date:	11/26/2012
Expiration Date:	10/31/2013
License Plate Number:	452EVN
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	452EVN
Previous Plate State:	CO
Name:	JUDY A. HINOJOSA
Interest:	REGISTRANT
Mailing Address:	152 DUTTON DR PAGOSA SPGS, CO 81147-8369
County:	ARCHULETA
Physical Address:	152 DUTTON DR PAGOSA SPGS, CO 81147-8369
County:	ARCHULETA
Registration Renewal Date:	11/26/2012
Expiration Date:	10/31/2013
Name:	RAYMOND HINOJOSA
Interest:	REGISTRANT
Mailing Address:	152 DUTTON DR PAGOSA SPGS, CO 81147-8369
County:	ARCHULETA
Physical Address:	152 DUTTON DR PAGOSA SPGS, CO 81147-8369
County:	ARCHULETA

Historical DMV Record 8

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Registration Renewal Date:	11/29/2011
Expiration Date:	10/31/2012
License Plate Number:	452EVN
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	452EVN
Previous Plate State:	CO
Name:	JUDY A. HINOJOSA
Interest:	REGISTRANT
Mailing Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA
Physical Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA
Registration Renewal Date:	11/29/2011
Expiration Date:	10/31/2012
Name:	RAYMOND HINOJOSA
Interest:	REGISTRANT
Mailing Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA
Physical Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA

Historical DMV Record 9

Registration Renewal Date:	11/08/2010
Expiration Date:	10/31/2011
License Plate Number:	452EVN
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	452EVN
Previous Plate State:	CO
Name:	RAYMOND HINOJOSA
Interest:	REGISTRANT
Mailing Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Physical Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA
Registration Renewal Date:	11/08/2010
Expiration Date:	10/31/2011
Name:	JUDY A. HINOJOSA
Interest:	REGISTRANT
Mailing Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA
Physical Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA

Historical DMV Record 10

Registration Renewal Date:	11/02/2009
Expiration Date:	10/31/2010
License Plate Number:	452EVN
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	452EVN
Previous Plate State:	CO
Name:	RAYMOND HINOJOSA
Interest:	REGISTRANT
Mailing Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA
Physical Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA
Registration Renewal Date:	11/02/2009
Expiration Date:	10/31/2010
Name:	JUDY A. HINOJOSA
Interest:	REGISTRANT
Mailing Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA
Physical Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	ARCHULETA

Historical DMV Record 11

Registration Renewal Date:	10/25/2007
Expiration Date:	10/31/2008
License Plate Number:	452EVN
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	452EVN
Previous Plate State:	CO
Name:	RAYMOND HINOJOSA
Interest:	REGISTRANT
Mailing Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA
Physical Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA
Registration Renewal Date:	10/25/2007
Expiration Date:	10/31/2008
Name:	JUDY A. HINOJOSA
Interest:	REGISTRANT
Mailing Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA
Physical Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA

Historical DMV Record 12

Registration Renewal Date:	10/09/2006
Expiration Date:	10/31/2007
License Plate Number:	452EVN
Issuing State:	CO
Plate Type:	PRIVATE
Name:	JUDY A. HINOJOSA
Interest:	REGISTRANT
Mailing Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	ARCHULETA
Physical Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA
Title Transfer Date:	10/09/2006
Name:	J P MORGAN CHASE BANK NA
Interest:	LIEN HOLDER
Mailing Address:	PO BOX 901098 901098 FORT WORTH, TX 76101-2098
County:	TARRANT
Title Transfer Date:	10/09/2006
Name:	RAYMOND HINOJOSA
Interest:	OWNER
Mailing Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA
Physical Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA
Title Transfer Date:	10/09/2006
Name:	JUDY A. HINOJOSA
Interest:	OWNER
Mailing Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA
Physical Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA
Registration Renewal Date:	10/09/2006
Expiration Date:	10/31/2007
License Plate Number:	452EVN
Issuing State:	CO
Name:	JUDY A. HINOJOSA
Interest:	REGISTRANT
Mailing Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA
Physical Address:	81 SUMAC CT

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	PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA
Registration Renewal Date:	10/09/2006
Expiration Date:	10/31/2007
Name:	RAYMOND HINOJOSA
Interest:	REGISTRANT
Mailing Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA
Physical Address:	81 SUMAC CT PAGOSA SPGS, CO 81147-8885
County:	ARCHULETA

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	5TFCZ5AN6JX150195
Vehicle Type:	PASSENGER CAR
Model Year:	2018
Make:	TOYOTA
Body Style:	DOUBLE CAB 4D 4
Model/Series:	TACOMA SR SR5 TRD OFFROAD TRD PR

Registration Information

License Plate Number:	BFNZ20
Issuing State:	CO
Previous Plate Number:	DTW112
Previous Plate State:	CO
Registration Renewal Date:	06/11/2019

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Expiration Date:	06/30/2020
Registrant(s) Since:	06/11/2019
Name:	PAVIA EUNICE FLORES
Interest:	REGISTRANT
Mailing Address:	5547 CROWN BLVD DENVER, CO 80239-3752
County:	DENVER
Physical Address:	5547 CROWN BLVD DENVER, CO 80239-3752
County:	DENVER
Registration Renewal Date:	06/11/2019
Expiration Date:	06/30/2020
Registrant(s) Since:	06/11/2019
Name:	QUINONES GERARDO
Interest:	REGISTRANT
Mailing Address:	5547 CROWN BLVD DENVER, CO 80239-3752
County:	DENVER
Physical Address:	5547 CROWN BLVD DENVER, CO 80239-3752
County:	DENVER
License Plate Number:	BFNZ20
Issuing State:	CO
Previous Plate Number:	921570U
Previous Plate State:	CO
Registration Renewal Date:	06/11/2019
Expiration Date:	06/30/2020
Registrant(s) Since:	06/11/2019
Name:	QUINONES GERARDO
Interest:	REGISTRANT
Mailing Address:	5547 CROWN BLVD DENVER, CO 80239-3752
County:	DENVER
Physical Address:	5547 CROWN BLVD DENVER, CO 80239-3752
County:	DENVER

Title Information:

Original Title Date:	05/07/2019

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Title Number:	001820301
Name:	QUINONES GERARDO
Interest:	OWNER
Title Transaction Date:	05/07/2019
Mailing Address:	5547 CROWN BLVD DENVER, CO 80239-3752
County:	DENVER
Physical Address:	5547 CROWN BLVD DENVER, CO 80239-3752
County:	DENVER
Name:	PAVIA EUNICE FLORES
Interest:	OWNER
Title Transaction Date:	05/07/2019
Mailing Address:	5547 CROWN BLVD DENVER, CO 80239-3752
County:	DENVER
Physical Address:	5547 CROWN BLVD DENVER, CO 80239-3752
County:	DENVER

Lien Holder Information

Name:	TOYOTA MOTOR CREDIT CO.
Interest:	LIEN HOLDER
Mailing Address:	PO BOX 105386 105386 ATLANTA, GA 30348-5386
County:	FULTON

Historical DMV Record 1

Title Transfer Date:	01/06/2020
Name:	FARMERS INSURANCE EXCHANGE
Interest:	OWNER
Mailing Address:	8300 BLAKELAND DR LITTLETON, CO 80125-9741
County:	DOUGLAS
Physical Address:	8300 BLAKELAND DR LITTLETON, CO 80125-9741
County:	DOUGLAS

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical DMV Record 2

Registration Renewal Date:	07/17/2018
Expiration Date:	07/31/2019
License Plate Number:	921570U
Issuing State:	CO
Plate Type:	PRIVATE
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	06/19/2018
Name:	GARY DEAN COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	3GCPKSE74CG196731
Vehicle Type:	PASSENGER CAR

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Model Year:	2012
Make:	CHEVROLET
Body Style:	CREW CAB 4D
Model/Series:	SILVERADO 1500 LT
Primary Color:	WHITE

Registration Information

License Plate Number:	BPJ954
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	OPH268
Previous Plate State:	CO
Registration Renewal Date:	07/20/2018
Expiration Date:	07/31/2019
Registrant(s) Since:	07/20/2018
Name:	SILAS SUSIE SILAS
Interest:	REGISTRANT
Mailing Address:	2304 COUNTY ROAD 203 DURANGO, CO 81301-8920
County:	LA PLATA
Physical Address:	2304 COUNTY ROAD 203 DURANGO, CO 81301-8920
County:	LA PLATA
Registration Renewal Date:	07/20/2018
Expiration Date:	07/31/2019
Registrant(s) Since:	07/20/2018
Name:	SUSIE SILAS
Interest:	REGISTRANT
Mailing Address:	2304 COUNTY ROAD 203 DURANGO, CO 81301-8920
County:	LA PLATA
Physical Address:	2304 COUNTY ROAD 203 DURANGO, CO 81301-8920
County:	LA PLATA
Registration Renewal Date:	07/20/2018
Expiration Date:	07/31/2019
Registrant(s) Since:	07/20/2018
Name:	JANET SILAS
Interest:	REGISTRANT

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	2304 COUNTY ROAD 203 DURANGO, CO 81301-8920
County:	LA PLATA
Physical Address:	2304 COUNTY ROAD 203 DURANGO, CO 81301-8920
County:	LA PLATA

Title Information:

Original Title Date:	07/20/2018
Title Number:	20E656442
Name:	JANET SILAS
Interest:	OWNER
Title Transaction Date:	07/20/2018
Mailing Address:	2304 COUNTY ROAD 203 DURANGO, CO 81301-8920
County:	LA PLATA
Physical Address:	2304 COUNTY ROAD 203 DURANGO, CO 81301-8920
County:	LA PLATA
Name:	SILAS SUSIE SILAS
Interest:	OWNER
Title Transaction Date:	07/20/2018
Mailing Address:	2304 COUNTY ROAD 203 DURANGO, CO 81301-8920
County:	LA PLATA
Physical Address:	2304 COUNTY ROAD 203 DURANGO, CO 81301-8920
County:	LA PLATA

Lien Holder Information

Name:	CREDIT ACCEPTANCE COROP
Interest:	LIEN HOLDER
Mailing Address:	25505 W 12 MILE RD SOUTHFIELD, MI 48034-1846
County:	OAKLAND

Historical DMV Record 1

Registration Renewal Date:	06/13/2017
Expiration Date:	06/30/2018

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

License Plate Number:	OPH268
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	BU52724
Previous Plate State:	TX
Name:	DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	06/13/2017
Name:	DEAN COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	1SAAS01E1P1AL1123
Vehicle Type:	UNKNOWN
Model Year:	1993

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Make:	SARC
Body Style:	CAMP TRAILER

Title Information:

Original Title Date:	06/07/2019
Title Number:	001788726
Name:	MIKE ANDREATTA
Interest:	OWNER
Title Transaction Date:	06/07/2019
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Name:	CHARLA ANDREATTA
Interest:	OWNER
Title Transaction Date:	06/07/2019
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 1

Registration Renewal Date:	07/25/2017
Expiration Date:	08/31/2018
License Plate Number:	655QGV
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	655QGV
Previous Plate State:	CO
Name:	MIKE ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	07/25/2017
Expiration Date:	08/31/2018
Name:	CHARLA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 2

Registration Renewal Date:	07/21/2016
Expiration Date:	08/31/2017
License Plate Number:	655QGV
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	655QGV
Previous Plate State:	CO
Name:	MIKE ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	07/21/2016
Expiration Date:	08/31/2017
Name:	CHARLA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 3

Registration Renewal Date:	07/31/2015
Expiration Date:	08/31/2016
License Plate Number:	655QGV
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	655QGV
Previous Plate State:	CO
Name:	MIKE ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 4

Registration Renewal Date:	08/12/2014
Expiration Date:	08/31/2015
License Plate Number:	655QGV
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	816MCZ
Previous Plate State:	CO
Name:	MIKE ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	08/12/2014
Expiration Date:	08/31/2015
Name:	CHARLA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Title Transfer Date:	08/12/2014
Name:	MIKE ANDREATTA
Interest:	OWNER
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Title Transfer Date:	08/12/2014
Name:	CHARLA ANDREATTA
Interest:	OWNER
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Title Transfer Date:	03/14/2014
Name:	GARY D. COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

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County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	03/14/2014
Name:	KAREN MARIE COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 5

Registration Renewal Date:	06/18/2008
Expiration Date:	09/30/2008
License Plate Number:	816MCZ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	816MCZ
Previous Plate State:	CO
Name:	KAREN MARIE COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	06/18/2008
Expiration Date:	09/30/2008
Name:	KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

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County:	ARCHULETA
Registration Renewal Date:	06/18/2008
Expiration Date:	09/30/2008
Name:	GARY D. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 6

Registration Renewal Date:	09/20/2007
Expiration Date:	09/30/2008
License Plate Number:	816MCZ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	816MCZ
Previous Plate State:	CO
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	09/20/2007
Expiration Date:	09/30/2008
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

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Historical DMV Record 7

Registration Renewal Date:	08/21/2006
Expiration Date:	09/30/2007
License Plate Number:	816MCZ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	816MCZ
Previous Plate State:	CO
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	08/21/2006
Expiration Date:	09/30/2007
License Plate Number:	816MCZ
Issuing State:	CO
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	08/21/2006
Expiration Date:	09/30/2007
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

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Historical DMV Record 8

Registration Renewal Date:	09/22/2005
Expiration Date:	09/30/2006
License Plate Number:	816MCZ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	E065527
Previous Plate State:	CO
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	09/22/2005
Expiration Date:	09/30/2006
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	04/05/2005
Name:	KAREN MARIE COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	04/05/2005
Name:	GARY D. COX
Interest:	OWNER

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Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	ID21142696CO
Vehicle Type:	UNKNOWN
Model Year:	1994
Make:	HMD
Body Style:	TU

Registration Information

License Plate Number:	685MLJ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	685MLJ
Previous Plate State:	CO
Registration Renewal Date:	10/05/2007
Expiration Date:	10/31/2008
Registrant(s) Since:	10/13/2005
Name:	KAREN MARIE COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	10/05/2007
Expiration Date:	10/31/2008
Registrant(s) Since:	10/13/2005
Name:	GARY D. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	10/05/2007
Expiration Date:	10/31/2008
Registrant(s) Since:	10/13/2005
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	10/05/2007
Expiration Date:	10/31/2008
Registrant(s) Since:	10/13/2005
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 1

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Title Transfer Date:	03/31/2005
Name:	GARY DEAN COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	03/31/2005
Name:	KAREN M. COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

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Corporate Records & Business Registrations (1)

To Summary

Corporate Records & Business Registrations

Source Information

Information Current Through:	08/09/2020
Database Last Updated:	08/12/2020
Update Frequency:	WEEKLY
Current Date:	08/12/2020
Source:	AS REPORTED BY THE SECRETARY OF STATE OR OTHER OFFICIAL SOURCE

Registered Agent Information

Name:	DEAN COX
Address:	MEADOWLARK RESORT;U.S.HIGHWAY 16 TEN SLEEP, WY 82442

Additional Detail Information

Additional Details:	THE LAST ANNUAL REPORT SUBMITTED TO THE STATE WAS FOR 1999 STATE REFERENCE # 418521

Company Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Name:	MEADOWLARK LAKE RESORT CORP.
Address:	%DEAN COX;P.O. BOX 86 TEN SLEEP, WY 82442

The preceding public record data is for information purposes only and is not the official record. Certified copies can only be obtained from the official source.

The public record items reported above may have been paid, terminated, vacated or released prior to today's date.

Filing Information

Identification Number:	1992002737211
Filing Date:	05/18/1992
State of Incorporation:	WYOMING
Date Incorporated:	05/18/1992
Expiration Date:	05/18/9092
Status:	INACTIVE-AMIN DISS(TAX)
Status Attained Date:	06/18/2001
Corporation Type:	PROFIT
Business Type:	CORPORATION
Address Type:	MAILING
Where Filed:	SECRETARY OF STATE/ CORPORATIONS DIVISION
	200 W 24TH ST STATE CAPITOL CHEYENNE, WY 82002

Order Documents

Call Westlaw CourtExpress at 1-877-DOC-RETR (1-877-362-7387) for on-site manual retrieval of documents related to this or other matters. Additional charges apply.

End of Document

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Household Records (4)

To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020

Household Information:

Address:	95 CLOVER LN PAGOSA SPGS, CO 81147-7738
County:	ARCHULETA
Latitude/Longitude:	-106.992906/37.225519

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Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.	**Residence Type:**	SINGLE FAMILY DWELLING
		Address First Reported:	1999
		Telephone:	970-264-2012

Head of Household Information

Head of Household:	MR GARY D COX
Gender:	MALE
Date of Birth:	10/XX/1940
Name/Address Confirmed:	11/2018
Marital Status:	MARRIED

Additional Individuals In This Household

Name:	MS CAROL M COX (Spouse)
Gender:	FEMALE
Date of Birth:	10/XX/1951
Name/Address Confirmed:	09/2019
Marital Status:	MARRIED
Name:	MR DEAN G COX
Gender:	MALE
Date of Birth:	10/XX/1940
Name/Address Confirmed:	10/2019
Name:	MS KAREN M COX
Gender:	FEMALE
Date of Birth:	02/XX/1944
Name/Address Confirmed:	10/2019

End of Document

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To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	119 BASTILLE DR PAGOSA SPGS, CO 81147-9388
County:	ARCHULETA
Latitude/Longitude:	37.25531/-107.082849
Residence Type:	NURSING HOME
Address First Reported:	2013

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Head of Household Information

Head of Household:	MR DEAN COX
Gender:	MALE
Name/Address Confirmed:	08/2013
Marital Status:	SINGLE

End of Document

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To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	12224 W VILLA CHULA LN SUN CITY, AZ 85373-5625
County:	MARICOPA
Latitude/Longitude:	-112.324226/33.69404
Residence Type:	SINGLE FAMILY DWELLING
Address First Reported:	2011

Head of Household Information

Head of Household:	MR GARY D COX
Gender:	MALE
Date of Birth:	12/XX/1952
Name/Address Confirmed:	05/2017
Marital Status:	MARRIED

Additional Individuals In This Household

Name:	MS LAURIE M COX (Spouse)
Gender:	FEMALE
Date of Birth:	10/XX/1953
Name/Address Confirmed:	05/2017
Marital Status:	MARRIED
Name:	MS KELLI D COX
Gender:	FEMALE
Date of Birth:	04/XX/1986
Name/Address Confirmed:	05/2017
Name:	MS LAURIE COX
Gender:	FEMALE
Date of Birth:	04/XX/1986

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Name/Address Confirmed:	05/2017

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To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	95 CLOVER LN PAGOSA SPGS, CO 81147-7738
County:	ARCHULETA
Latitude/Longitude:	37.225374/-106.993064
Residence Type:	SINGLE FAMILY DWELLING
Address First Reported:	1999
Telephone:	970-264-2012
Service Type:	VOICE LINE

Head of Household Information

Head of Household:	MS KAREN M COX
Gender:	FEMALE
Date of Birth:	02/XX/1944
Name/Address Confirmed:	10/2015
Marital Status:	MARRIED

Additional Individuals In This Household

Name:	MR DEAN G COX (Spouse)
Gender:	MALE
Date of Birth:	10/XX/1940
Name/Address Confirmed:	10/2015
Marital Status:	MARRIED

End of Document

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Possible Relatives & Household Members

Household Records

95 CLOVER LN PAGOSA SPGS, CO 81147-7738 | Full-Text

Address First Reported:	1999	**Phone:**	970-264-2012	**Confidence Score:**	99

Name	Role	Date of Birth	Name/Address Confirmed:
MR GARY D COX	Head of Household	10/XX/1940	11/2018

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Name	Role	Date of Birth	Name/Address Confirmed:
MS CAROL M COX	Spouse	10/XX/1951	09/2019
MR DEAN G COX	Other	10/XX/1940	10/2019
MS KAREN M COX	Other	02/XX/1944	10/2019

119 BASTILLE DR PAGOSA SPGS, CO 81147-9388 | Full-Text

Address First Reported:	2013	Confidence Score:	85
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MR DEAN COX	Head of Household	N/A	08/2013

12224 W VILLA CHULA LN SUN CITY, AZ 85373-5625 | Full-Text

Address First Reported:	2011	Confidence Score:	85
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MR GARY D COX	Head of Household	12/XX/1952	05/2017
MS LAURIE M COX	Spouse	10/XX/1953	05/2017
MS KELLI D COX	Other	04/XX/1986	05/2017
MS LAURIE COX	Other	04/XX/1986	05/2017

95 CLOVER LN PAGOSA SPGS, CO 81147-7738 | Full-Text

Address First Reported:	1999	Phone:	970-264-2012	Confidence Score:	87
Name	**Role**		**Date of Birth**		**Name/Address Confirmed:**
MS KAREN M COX	Head of Household		02/XX/1944		10/2015
MR DEAN G COX	Spouse		10/XX/1940		10/2015

Possible Named Parties

People Associations

SUZANNE SILAS	JAMIE WOOD
JAIME WOOD	RAYMOND HINOJOSA
DEAN COX	JANET SILAS
CARY M COX	LAURIE COX
KELLI D COX	KATHERINE COX
JOYCE A COX	CARLA D WOOD

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SUE SILAS	CAROL M COX
GARY NICHOLS	ASHLEY MCDONALD
BRANDON TILDEN	SUE SILAS
DANIEL P JARVIE	EUNICE FLORES
CHARLA ANDREATTA	MICHAEL P MANOR
KAREN COX	WILLIAM M JARBOE
GERARDO QUINONES	GARY NICHOLS
GARY D COX	GARY COX
MICHAEL F ANDREATTA	IONE L PATTERSON
MEADOWLARK LAKE RESORT	JAMIE WOOD
PEGGY A MANOR	GARRY D COX
JUDY A HINOJOSA	

Business Associations

BANK OF	ENT FEDERAL CREDIT UNION

No Documents Found

No Documents Were Found In These Sources

Aircraft Records	Bankruptcy Records
BusFindUS	Conceal & Carry Weapons Permits
Death Records	Divorce Records
DMI	Email Address Records
Executive Bios	FBN/DBA
FEIN	Healthcare Licenses
Hunting & Fishing Licenses	Lawsuit Records
Liens & Judgments	Marriage Records
New Movers Records	Political Donors
Professional Licenses	Real Property Pre-Foreclosure Records
Stock	UCC Records
Unclaimed Assets	Watercraft Records

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Possible People Information 2
Person Overview 2
Date of Birth Summary 2
SSN Summary 2
Name Variations 2
Addresses 3
Voter Registrations 4
Political Donors 5
Phone Numbers 5
Possible Asset Information 5
Real Property Tax Assessor Records 5
Real Property Transactions 5
Vehicle Registrations 6
Possible Business & Employment 6
Executive Profile 6
Corporate Records & Business Registrations 7
Full-Text Documents 7
All Full-Text Documents 7
Possible Relatives & Household Members 104
Household Records 104
Possible Named Parties 105
People Associations 105
Business Associations 105
No Documents Found 106
No Documents Were Found In These Sources 106
Permissible Uses and FCRA Disclaimer 106
Permissible Uses 106

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Possible People Information

Person Overview

KAREN COX

95 CLOVER LN

PAGOSA SPRINGS, CO 81147-7738 | ARCHULETA County

Phone Number(s):

970-264-2012

480-396-2355

970-731-5746

SSN:

522-56-XXXX - issued in CO in 1960-1961

DOB:

02/XX/1944 (Age: 76)

Date of Birth Summary

Date of Birth	Source
02/XX/1944 (Age: 76)	Address Historical | People Find | People Historical | People Household #1 | People Household #2

SSN Summary

SSN	Source
522-56-XXXX - issued in CO in 1960-1961	People Find | People Historical #1 | People Historical #2 | People Historical #3

Name Variations

Name	Source
KAREN M COX	Address Historical | People Find | People Historical | People Household | Voters Registration
KAREN P COX	People Historical
MS KAREN M COX	People Household #1 | People Household #2
KAREN MARIE COX	People Find | People Historical #1 | People Historical #2
K COX	People Find

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Addresses

Address	
95 CLOVER LN, PAGOSA SPRINGS, CO 81147-7738 | ARCHULETA County	
Reported 01/01/1999 - 07/14/2020	
By Motor Vehicle 01/30/2013 - 05/04/2020	Motor Vehicle #1 | Motor Vehicle #2 | Motor Vehicle #3 | Motor Vehicle #4 | Motor Vehicle #5 | Motor Vehicle #6 | Motor Vehicle #7
By People Household 01/01/1999 - 10/31/2015	People Household #1 | People Household #2
By People Find 01/24/2003 - 01/24/2003	People Find
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2 | Real Property Deeds #3 | Real Property Deeds #4
By Real Property Tax Assessor	Real Property Tax Assessor
By Voters Registration	Voters Registration
MESA, AZ 85205 | MARICOPA County	
Reported 01/01/2018 - 10/31/2018	
By People Household 01/01/2018 - 10/31/2018	People Household
PO BOX 550, PAGOSA SPRINGS, CO 81147-0550 | ARCHULETA County	
Reported 06/29/2011 - 06/29/2011	
By Motor Vehicle 06/29/2011 - 06/29/2011	Motor Vehicle
1681 E HIGHWAY 160, PAGOSA SPRINGS, CO 81147-9740 | ARCHULETA County	
Reported 06/29/2011 - 06/29/2011	
By Motor Vehicle 06/29/2011 - 06/29/2011	Motor Vehicle
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2
By Real Property Tax Assessor	Real Property Tax Assessor
1681 W HIGHWAY 160, PAGOSA SPRINGS, CO 81147 | ARCHULETA County	
Reported 07/08/2010 - 07/08/2010	
By Motor Vehicle 07/08/2010 - 07/08/2010	Motor Vehicle
1681 E HIGHWAY 160 PO BOX 550, PAGOSA SPRINGS, CO 81147-0550 | ARCHULETA County	
Reported 06/21/2006 - 06/21/2006	
By Motor Vehicle 06/21/2006 - 06/21/2006	Motor Vehicle
6835 HWY 16, TEN SLEEP, WY 82442	
Reported 01/24/2003 - 01/24/2003	
By People Find 01/24/2003 - 01/24/2003	People Find
PO BOX 86, TEN SLEEP, WY 82442-0086 | WASHAKIE County	
Reported 01/01/1993 - 01/24/2003	
By People Find 11/01/1999 - 11/01/1999	People Find
By People Historical 01/01/1993 - 12/31/1993	People Historical
6835 HIGHWAY 16 UNIT 16, TEN SLEEP, WY 82442-8864 | WASHAKIE County	

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Reported 11/13/2000 - 11/13/2000

By People Find 11/13/2000 - 11/13/2000 People Find

1 STAR 1, NEDERLAND, CO 80466 | BOULDER County

Reported 01/01/1988 - 12/31/1993

By People Historical 01/01/1993 - 12/31/1993 People Historical #1 | People Historical #2

3395 RR 1, DRIGGS, ID 83422 | TETON County

Reported 01/01/1992 - 12/31/1993

By People Historical 01/01/1992 - 12/31/1992 People Historical

PO BOX 63, GEORGETOWN, CO 80444-0063 | CLEAR CREEK County

Reported 01/01/1989 - 12/31/1989

By People Historical 01/01/1989 - 12/31/1989 People Historical #1 | People Historical #2

PO BOX 4487, PAGOSA SPRINGS, CO 81157-4487 | ARCHULETA County

Reported N/A

By Real Property Deeds Real Property Deeds #1 | Real Property Deeds #2

6835 US HWY UNIT 16, TEN SLEEP, WY 82442 | WASHAKIE County

Reported N/A

By Address Historical Address Historical

480 S BEAVER CREEK RD, BLACK HAWK, CO 80422-4557 | GILPIN County

Reported N/A

By People Historical People Historical

96 CLOVER LN, PAGOSA SPRINGS, CO 81147 | ARCHULETA County

Reported N/A

By Real Property Tax Assessor Real Property Tax Assessor

721 CLINT CIR, PAGOSA SPRINGS, CO 81147 | ARCHULETA County

Reported N/A

By Real Property Tax Assessor Real Property Tax Assessor

1195 COUNTY ROAD 130, NEDERLAND, CO 80466-9525 | BOULDER County

Reported N/A

By Address Historical Address Historical

ALEXANDER BLVD RT 1 40, DRIGGS, ID 83422 | TETON County

Reported N/A

By Address Historical Address Historical

BARR LAKE CIR, PAGOSA SPRINGS, CO 81147 | ARCHULETA County

Reported N/A

By Address Historical Address Historical

RR ELDORA STAR, NEDERLAND, CO 80466 | BOULDER County

Reported N/A

By People Historical People Historical

Voter Registrations

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Political Party	Last Voted Date	Confidence Score	View Full Text
DEMOCRAT	11/06/2018	95%	Full-Text

Political Donors

Last Party Contributed To	Date of Last Contribution	Confidence Score	View Full Text
	06/30/2001	65%	Full-Text
	05/01/2000	65%	Full-Text

Phone Numbers

Phone	Source
970-264-2012	Executive Profile #1 | Executive Profile #2 | Executive Profile #3 | Executive Profile #4 | Executive Profile #5 | Executive Profile #6 | People Find | People Household #1 | People Household #2
480-396-2355	People Household
970-731-5746	Executive Profile #1 | Executive Profile #2 | Executive Profile #3 | Executive Profile #4 | Executive Profile #5 | Executive Profile #6
366-2424	People Find | People Historical
258-3358	People Historical

Possible Asset Information

Real Property Tax Assessor Records

Property Address	Assessed Total Value	Tax Year	Confidence Score	View Full Text
1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147-9740	$16,810.00	2019	65%	Full-Text
721 CLINT CIR PAGOSA SPRINGS, CO 81147	$9,460.00	2019	95%	Full-Text
	$9,687.00		94%	Full-Text

Real Property Transactions

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Property Address	Sale Price	Mortgage Amount	Recording Date	Confidence Score	View Full Text
1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147	$225,000.00		06/22/2016	65%	Full-Text
CO			04/28/2016	95%	Full-Text
CO			04/28/2016	98%	Full-Text
1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147			03/16/2012	98%	Full-Text
95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738			11/09/2004	98%	Full-Text

Vehicle Registrations

Year	Make	Model	Registration Date	Confidence Score	View Full Text
Current Motor Vehicles					
2018	JEEP	CHEROKEE	07/06/2018	95%	Full-Text
1994	HMD		10/13/2005	98%	Full-Text
1998	CHEVROLET	C/K1500	12/01/2000	90%	Full-Text
Historical Motor Vehicles					
2004	MERCURY	MOUNTAINEER	01/02/2019	98%	Full-Text
1994	BUICK	LESABRE	03/31/2017	95%	Full-Text
2002	CHEVROLET	SILVERADO 1500	02/27/2013	98%	Full-Text
2014	KIA	SORENTO		90%	Full-Text
1993	SARC			98%	Full-Text

Possible Business & Employment

Executive Profile

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Business Name	Business Address	Confidence Score	View Full Text
V A POMA RANCH	PO BOX 550 PAGOSA SPRINGS, CO 81147-0550	95%	Full-Text
VA POMA RANCH	PO BOX 550 PAGOSA SPRINGS, CO 81147-0550	95%	Full-Text
VA POMA RANCH	PO BOX 550 PAGOSA SPRINGS, CO 81147-0550	97%	Full-Text
VA POMA RANCH	PO BOX 550 PAGOSA SPRINGS, CO 81147-0550	90%	Full-Text
VA POMA RANCH	PO BOX 550 PAGOSA SPRINGS, CO 81147-0550	96%	Full-Text
VA POMA RANCH	PO BOX 550 PAGOSA SPRINGS, CO 81147-0550	95%	Full-Text

Corporate Records & Business Registrations

Business Name	Business Address	Confidence Score	View Full Text
COX DYNAMICS, INC.	%KAREN COX;95 CLOVER LANE PEGOSA SPRINGS, CO 81147	85%	Full-Text
COX DYNAMICS, INC., DISSOLVED MARCH 20, 2012	P.O. BOX 4487 PAGOSA SPRINGS, CO 81157	96%	Full-Text

Full-Text Documents

All Full-Text Documents

Voter Registrations (1)

To Summary

Voter Registration Record

Source Information

Information Current Through:	01/07/2020
Database Last Updated:	05/22/2020
Update Frequency:	ANNUAL

Voter History

General 2006	VOTED
General 2012	VOTED
Other 2011	VOTED
General 2010	VOTED

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Current Date:	08/12/2020	**Other 2008**	VOTED
		Last Date Voted:	11/06/2018

Name and Personal Information

Name:	KAREN M COX
Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Home Phone:	970-264-2012

Demographic Information

Date of Birth:	/XX1944
Age:	65+
Gender:	FEMALE
Political Party:	DEMOCRAT

Registration Information

Voter Identification Number:	4756773
Motor Voter Identification Number:	830788
Registration Date:	08/08/2000

End of Document

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Political Donors (2)

To Summary

Political Donor Record

Source Information

Date Acquired:	09/21/2015
Database Last Updated:	05/22/2018
Update Frequency:	EVERY OTHER YEAR
Current Date:	08/12/2020

Name and Personal Information

Name:	KAREN COX
Address:	2383 HWY 160 WEST PAGOSA, CO 81147

Donation Information

First Contribution Date:	06/30/2001
Amount:	$7.00
Last Contribution Date:	06/30/2001
Amount:	$7.00
Candidate/Committee/ PAC:	REALTOR ISSUES POLITICAL PAC (FKA) COLO. ASSOC. OF REALTORS ISSUES PAC (IPAC)

Contribution Totals

Total:	$7.00

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To Summary

Political Donor Record

Source Information

Date Acquired:	09/21/2015
Database Last Updated:	05/22/2018
Update Frequency:	EVERY OTHER YEAR
Current Date:	08/12/2020

Name and Personal Information

Name:	COX KAREN
Address:	2383 HIGHWAY 84 PAGOSA SPRINGS, CO 81147-9858

Donation Information

First Contribution Date:	05/01/2000
Amount:	$5.00
Last Contribution Date:	05/01/2000
Amount:	$5.00
Candidate/Committee/ PAC:	REALTOR CANDIDATE POLITICAL ACTION COMMITTEE (RCPAC) - FKA: COLORADO ASSOCIATION OF REALTO

Contribution Totals

Total:	$5.00

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Historical People Records (4)

To Summary

People Historical

Individual Information

Name:	COX, KAREN MARIE
SSN:	522-56-XXXX
On File Since:	12/01/1990

Historical Address Information

Address 1:	RR 1 POB 3395 DRIGGS, ID 83422
Address Last Reported:	1993
Address 2:	RR 1 POB 3602 DRIGGS, ID 83422
Address Last Reported:	1992

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To Summary

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People Historical

Individual Information

Name:	COX, KAREN P
On File Since:	12/01/1976

Historical Address Information

Address 1:	PO BOX 63 GEORGETOWN, CO 80444-0063
Address Last Reported:	1989
Address Type:	PO BOX ADDRESS
Address 2:	1 STAR 1 NEDERLAND, CO 80466
Address Last Reported:	1988
Address 3:	480 S BEAVER CREEK RD BLACK HAWK, CO 80422

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To Summary

People Historical

Individual Information

Name:	COX, KAREN MARIE
SSN:	522-56-XXXX
Date of Birth:	02/XX/1944
On File Since:	07/01/1992
Phone Number 1:	366-2424

Historical Address Information

Address 1:	PO BOX 86 TEN SLEEP, WY 82442-0086
Address Last Reported:	1993
Address Type:	PO BOX ADDRESS

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To Summary

People Historical

Individual Information

Name:	COX, KAREN M
SSN:	522-56-XXXX
On File Since:	12/01/1976
Phone Number 1:	258-3358

Historical Address Information

Address 1:	1 STAR 1 NEDERLAND, CO 80466
Address Last Reported:	1993
Address 2:	PO BOX 63

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	GEORGETOWN, CO 80444-0063
Address Type:	PO BOX ADDRESS
Address 3:	RR ELDORA STAR NEDERLAND, CO 80466

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Historical Address Records (4)

To Summary

Address Historical

Individual Information

Name:	COX, KAREN M
Date of Birth:	02/XX/1944

Historical Address Information

Address:	6835 US HWY 16 TEN SLEEP, WY 82442

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To Summary

Address Historical

Individual Information

Name:	COX, KAREN

Historical Address Information

Address:	1195 COUNTY 130 RD NEDERLAND, CO 80466

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To Summary

Address Historical

Individual Information

Name:	COX, KAREN

Historical Address Information

Address:	ALEXANDER BLVD RT 1 40 DRIGGS, ID 83422

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To Summary

Address Historical

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Individual Information

Name:	COX, KAREN

Historical Address Information

Address:	BARR LAKE CR PAGOSA SPRINGS, CO 81147

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People Find Records (1)

To Summary

People Finder - Historic Tracker Record

Source Information

Information Current Through:	06/30/2020
Database Last Updated:	07/07/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	TRANS UNION

Last Known Address Information

Current Address:	6835 HIGHWAY 16 16 TEN SLEEP, WY 82442
Phone Number 1:	970-264-2012
Address First Reported:	01/24/2003

Other Address Information

Previous Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Address First Reported:	01/24/2003
Previous Address:	PO BOX 86 TEN SLEEP, WY 82442-0086
Address First Reported:	01/24/2003

Individual Information

Name:	COX, KAREN MARIE
Also Known As:	COX, KAREN M COX, KAREN COX, K
SSN:	522-56-XXXX
Date of Birth:	02/XX/1944
Historic Phone Number:	366-2424
On File Since:	07/01/1992

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Real Property Tax Assessor Records (3)

To Summary

Real Property Tax Assessor Record

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Source Information

Tax Roll Certification Date:	02/01/2019
Owner Information Current Through:	06/24/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	BLAKEMORE MARK R
	BLAKEMORE SARA K
Absentee Owner:	OWNER OCCUPIED
Property Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147-9740
Mailing Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147-9740

Property Information

County:	ARCHULETA
Assessor's Parcel Number:	570107400008
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	43560
Lot Acreage:	1.0000
Municipality:	P FIRE & PAWS 2, GID
Legal Description:	RURAL SEC: 7 TWN: 35 RNG: 1W A TRACT OF LAND THAT IS A PORTION OF THE SE4SE4
Range:	01W
Township:	35
Section:	7

Tax Assessment Information

Tax Year:	2019
Calculated Land Value:	$33,350.00
Calculated Improvement Value:	$201,770.00
Calculated Total Value:	$235,120.00
Assessed Land Value:	$2,380.00
Assessed Improvement Value:	$14,430.00
Assessed Total Value:	$16,810.00

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Market Land Value:	$33,350.00
Market Improvement Value:	$201,770.00
Market Total Value:	$235,120.00
Valuation Method:	MARKET
Tax Amount:	$1,058.56
Tax Code Area:	5TD

Building/Improvement Characteristics

Building Type:	SINGLE FAMILY
Number of Buildings:	2
Year Built:	19500000
Total Area:	43560RURAL
Living Square Feet:	2286
Total Number of Rooms:	7
Number of Bedrooms:	4
Number of Bathrooms:	2.00
Full Baths:	2
Fireplace:	YES
Number of Stories:	1.00
Construction Quality:	AVERAGE
Exterior Wall Type:	BOARD & BATTEN
Roof Type:	GABLE/HIP
Heat:	HOT WATER

Last Market Sale Information

Sale Date:	06/22/2016
Seller Name:	COX KAREN M
Sale Price:	$225,000.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	06/22/2016
Document Number:	3968
Title Company:	HIGH COUNTRY TITLE

Previous Transaction Information

Previous Document Number:	6083
Type of Sale:	RESALE
Number of Parcels:	Y Y
Recording Date:	07/05/2002

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Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2018
Calculated Land Value:	$31,900.00
Calculated Improvement Value:	$194,950.00
Calculated Total Value:	$226,850.00
Assessed Total Value:	$16,340.00
Assessor's Parcel Number:	570107400008
Absentee Owner:	OWNER OCCUPIED
Owner:	BLAKEMORE SARA K, BLAKEMORE MARK R
Property Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147-9740
Mailing Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147-9740
Historical Tax Assessor Record: 2.	
Tax Year:	2017
Calculated Land Value:	$31,900.00
Calculated Improvement Value:	$194,950.00
Calculated Total Value:	$226,850.00
Assessed Total Value:	$16,340.00
Assessor's Parcel Number:	570107400008
Absentee Owner:	OWNER OCCUPIED
Owner:	BLAKEMORE MARK R, BLAKEMORE SARA K
Property Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147-9740
Mailing Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147-9740
Historical Tax Assessor Record: 3.	
Tax Year:	2016
Calculated Land Value:	$36,000.00
Calculated Improvement Value:	$193,910.00
Calculated Total Value:	$229,910.00
Assessed Total Value:	$18,310.00
Assessor's Parcel Number:	570107400008
Absentee Owner:	OWNER OCCUPIED
Owner:	BLAKEMORE MARK R, BLAKEMORE SARA K
Property Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147-9740

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Mailing Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147-9740
Historical Tax Assessor Record: 4.	
Tax Year:	2015
Calculated Land Value:	$36,000.00
Calculated Improvement Value:	$193,910.00
Calculated Total Value:	$229,910.00
Assessed Total Value:	$18,310.00
Assessor's Parcel Number:	570107400008
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX KAREN MARIE
Property Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 5.	
Tax Year:	2015
Calculated Land Value:	$36,000.00
Calculated Improvement Value:	$193,910.00
Calculated Total Value:	$229,910.00
Assessed Total Value:	$18,310.00
Assessor's Parcel Number:	570107400008
Owner:	BLAKEMORE MARK R, BLAKEMORE SARA K
Property Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147
Mailing Address:	PO BOX 1043 CHAMA, NM 87520-1043
Historical Tax Assessor Record: 6.	
Tax Year:	2014
Calculated Land Value:	$36,000.00
Calculated Improvement Value:	$210,810.00
Calculated Total Value:	$246,810.00
Assessed Total Value:	$19,650.00
Assessor's Parcel Number:	570107400008
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX KAREN MARIE
Property Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147

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Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 7.	
Tax Year:	2013
Calculated Land Value:	$36,000.00
Calculated Improvement Value:	$210,810.00
Calculated Total Value:	$246,810.00
Assessed Total Value:	$19,650.00
Assessor's Parcel Number:	570107400008
Owner:	POMA ETHEL I
Property Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147
Mailing Address:	PO BOX 550 PAGOSA SPRINGS, CO 81147-0550
Historical Tax Assessor Record: 8.	
Tax Year:	2012
Calculated Land Value:	$35,000.00
Calculated Improvement Value:	$218,180.00
Calculated Total Value:	$253,180.00
Assessed Total Value:	$20,160.00
Assessor's Parcel Number:	570107400008
Owner:	POMA ETHEL I
Property Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147
Mailing Address:	PO BOX 550 PAGOSA SPRINGS, CO 81147-0550
Historical Tax Assessor Record: 9.	
Tax Year:	2011
Calculated Land Value:	$35,000.00
Calculated Improvement Value:	$218,180.00
Calculated Total Value:	$253,180.00
Assessed Total Value:	$20,160.00
Assessor's Parcel Number:	570107400008
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX KAREN M
Property Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN

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	PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 10.	
Tax Year:	2010
Calculated Land Value:	$40,000.00
Calculated Improvement Value:	$303,720.00
Calculated Total Value:	$343,720.00
Assessed Total Value:	$27,360.00
Assessor's Parcel Number:	570107400008
Owner:	POMA ETHEL I
Property Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147
Mailing Address:	PO BOX 550 PAGOSA SPRINGS, CO 81147-0550
Historical Tax Assessor Record: 11.	
Tax Year:	2009
Calculated Land Value:	$40,000.00
Calculated Improvement Value:	$303,730.00
Calculated Total Value:	$343,730.00
Assessed Total Value:	$27,360.00
Assessor's Parcel Number:	570107400008
Owner:	POMA ETHEL I
Property Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147
Mailing Address:	PO BOX 550 PAGOSA SPRINGS, CO 81147-0550
Historical Tax Assessor Record: 12.	
Tax Year:	2009
Calculated Land Value:	$40,000.00
Calculated Improvement Value:	$303,730.00
Calculated Total Value:	$343,730.00
Assessed Total Value:	$27,360.00
Assessor's Parcel Number:	570107400008
Owner:	POMA ETHEL I
Property Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147
Mailing Address:	PO BOX 550 PAGOSA SPRINGS, CO 81147-0550

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Historical Tax Assessor Record: 13.	
Tax Year:	2008
Calculated Land Value:	$28,000.00
Calculated Improvement Value:	$196,549.00
Calculated Total Value:	$224,549.00
Assessed Total Value:	$17,874.00
Assessor's Parcel Number:	570107400008
Owner:	POMA ETHEL I
Property Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147
Mailing Address:	PO BOX 550 PAGOSA SPRINGS, CO 81147-0550
Historical Tax Assessor Record: 14.	
Tax Year:	2006
Calculated Land Value:	$15,000.00
Calculated Improvement Value:	$165,027.00
Calculated Total Value:	$180,027.00
Assessed Total Value:	$14,330.00
Assessor's Parcel Number:	570107400008
Owner:	POMA ETHEL I
Property Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147-9740
Mailing Address:	PO BOX 550 PAGOSA SPRINGS, CO 81147-0550
Historical Tax Assessor Record: 15.	
Tax Year:	2004
Calculated Land Value:	$15,000.00
Calculated Improvement Value:	$165,027.00
Calculated Total Value:	$180,027.00
Assessed Total Value:	$14,330.00
Assessor's Parcel Number:	570107400008
Owner:	POMA ETHEL I
Property Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147-9740
Mailing Address:	PO BOX 550 PAGOSA SPRINGS, CO 81147-0550

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	02/01/2019
Owner Information Current Through:	06/24/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	COX G DEAN
	COX KAREN M
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

Property Information

County:	ARCHULETA
Assessor's Parcel Number:	558324401131
Property Type:	VACANT
Land Use:	RESIDENTIAL LOT
Lot Size:	18731
Lot Acreage:	0.4300
Municipality:	PAWS
Subdivision:	RESERVE PAG PEAK PH4
Legal Description:	SUBDIVISION: RESERVE PAG PEAK PH4 LOT: 131 RPP 4 SEC: 24 TWN: 36 RNG: 2.5W
Lot Number:	131
Range:	02
Township:	36
Section:	24

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Tax Assessment Information

Tax Year:	2019
Calculated Land Value:	$32,620.00
Calculated Total Value:	$32,620.00
Assessed Land Value:	$9,460.00
Assessed Total Value:	$9,460.00
Market Land Value:	$32,620.00
Market Total Value:	$32,620.00
Valuation Method:	MARKET
Tax Amount:	$649.60
Tax Code Area:	50P

Building/Improvement Characteristics

Total Area:	18731RPP4

Last Market Sale Information

Sale Date:	05/09/2005
Seller Name:	RESERVE OF PAGOSA PEAK LLC
Sale Price:	$78,700.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Mortgage Amount:	$53,113.00
Mortgage Loan Type:	CONVENTIONAL
Mortgage Term:	15 YEARS
Mortgage Deed Type:	DEED OF TRUST
Lender Name:	BANK OF CO
Recording Date:	05/12/2005
Document Number:	4563
Title Company:	HIGH COUNTRY TITLE

Previous Transaction Information

Previous Document Number:	1430
Type of Sale:	RESALE
Multiple Parcel Sale:	MULTI - DETAIL PARCEL SALE
Number of Parcels:	Y
Recording Date:	02/17/2005

Historical Tax Assessor Information

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Historical Tax Assessor Record: 1.	
Tax Year:	2018
Calculated Land Value:	$22,750.00
Calculated Total Value:	$22,750.00
Assessed Total Value:	$6,600.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX KAREN M, COX G DEAN
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 2.	
Tax Year:	2017
Calculated Land Value:	$22,750.00
Calculated Total Value:	$22,750.00
Assessed Total Value:	$6,600.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 3.	
Tax Year:	2016
Calculated Land Value:	$66,330.00
Calculated Total Value:	$66,330.00
Assessed Total Value:	$19,240.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 4.	
Tax Year:	2015

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Land Value:	$66,330.00
Calculated Total Value:	$66,330.00
Assessed Total Value:	$19,240.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$56,210.00
Calculated Total Value:	$56,210.00
Assessed Total Value:	$16,300.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 6.	
Tax Year:	2013
Calculated Land Value:	$56,210.00
Calculated Total Value:	$56,210.00
Assessed Total Value:	$16,300.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 7.	
Tax Year:	2012
Calculated Land Value:	$56,210.00
Calculated Total Value:	$56,210.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Assessed Total Value:	$16,300.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 8.	
Tax Year:	2011
Calculated Land Value:	$56,210.00
Calculated Total Value:	$56,210.00
Assessed Total Value:	$16,300.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 9.	
Tax Year:	2010
Calculated Land Value:	$102,200.00
Calculated Total Value:	$102,200.00
Assessed Total Value:	$29,640.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 10.	
Tax Year:	2010
Calculated Land Value:	$102,200.00
Calculated Total Value:	$102,200.00
Assessed Total Value:	$29,640.00
Assessor's Parcel Number:	558324401131

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 11.	
Tax Year:	2009
Calculated Land Value:	$102,200.00
Calculated Total Value:	$102,200.00
Assessed Total Value:	$29,640.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 12.	
Tax Year:	2009
Calculated Land Value:	$102,200.00
Calculated Total Value:	$102,200.00
Assessed Total Value:	$29,640.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 13.	
Tax Year:	2008
Calculated Land Value:	$77,400.00
Calculated Total Value:	$77,400.00
Assessed Total Value:	$22,446.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 14.	
Tax Year:	2006
Calculated Land Value:	$121,317.00
Calculated Total Value:	$121,317.00
Assessed Total Value:	$35,182.00
Assessor's Parcel Number:	558324401131
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	COX G DEAN, COX KAREN M
Property Address:	721 CLINT CIR PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
Historical Tax Assessor Record: 15.	
Tax Year:	2004
Calculated Land Value:	$109,697.00
Calculated Total Value:	$109,697.00
Assessed Total Value:	$31,812.00
Assessor's Parcel Number:	558324401131
Owner:	RESERVE AT PAGOSA PEAK LLC
Property Address:	721 CLINT CIR
Mailing Address:	PO BOX 3310 PAGOSA SPRINGS, CO 81147-3310

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	COX GARY DEAN
	COX KAREN M
Mailing Address:	96 CLOVER LN PAGOSA SPRINGS, CO 81147

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290100010044
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	449975
Lot Acreage:	10.3300
Legal Description:	NEW YORK 15112 10.33 AC.

Tax Assessment Information

Estimated Tax Year:	2011
Calculated Land Value:	$75,000.00
Calculated Improvement Value:	$46,698.00
Calculated Total Value:	$121,698.00
Assessed Total Value:	$9,687.00
Market Land Value:	$75,000.00
Market Improvement Value:	$46,698.00
Market Total Value:	$121,698.00
Valuation Method:	MARKET
Tax Code Area:	101

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	20080000
Total Area:	449975
Living Square Feet:	481
Total Number of Rooms:	4
Number of Bedrooms:	2
Number of Bathrooms:	1.00
Full Baths:	1

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Number of Stories:	2.00
Style/Shape:	CABIN
Construction Quality:	AVERAGE
Exterior Wall Type:	ALUMINUM
Foundation Type:	CONCRETE

Last Market Sale Information

Sale Date:	01/30/2004
Seller Name:	ASARCO INC
Sale Price:	$27,900.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	2004
Document Number:	143242

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2008
Calculated Land Value:	$75,000.00
Calculated Improvement Value:	$18,010.00
Calculated Total Value:	$93,010.00
Assessor's Parcel Number:	48290100010044
Owner:	COX GARY DEAN, COX KAREN M
Property Address:	CO
Mailing Address:	96 CLOVER LN PAGOSA SPRINGS, CO 81147

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Real Property Transactions (5)

To Summary

Real Property Transaction Record

Source Information **Transaction Information**

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Filings Current Through:	07/15/2020	**Transaction Date:**	02/02/2012
County Last Updated:	08/06/2020	**Seller Name:**	POMA ETHEL I
Frequency of Update:	WEEKLY	**Deed Type:**	GRANT DEED
Current Date:	08/12/2020	**Document Type:**	DEED OF DISTRIBUTION
Source:	COUNTY CLERK AND RECORDER	**Type of Transaction:**	NOMINAL
		Recording Date:	03/16/2012
		Document Number:	1708
		Construction Type:	SALE IS A RE-SALE
		Purchase Payment:	CASH

Owner Information

Owner(s):	KAREN M COX
Absentee Owner:	SITUS FROM SALE (ABSENTEE)
Property Address:	1681 HIGHWAY 160 PAGOSA SPRINGS, CO 81147
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

Property Information

County:	ARCHULETA
Assessor's Parcel Number:	R012965
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	2286

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Source Information

Filings Current Through:	07/15/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	MARK R & SARA K BLAKEMORE
Ownership Rights:	JOINT TENANTS
Property Address:	1681 HIGHWAY 160 PAGOSA SPRINGS, CO 81147
Mailing Address:	PO BOX 1043 CHAMA, NM 87520-1043

Transaction Information

Transaction Date:	06/22/2016
Seller Name:	COX KAREN M
Sale Price:	$225,000.00
Deed Type:	GRANT DEED
Document Type:	WARRANTY DEED
Type of Transaction:	RESALE
Recording Date:	06/22/2016
Document Number:	3968
	HIGH COUNTRY TITLE
Construction Type:	SALE IS A RE-SALE
Purchase Payment:	CASH

Property Information

County:	ARCHULETA
Assessor's Parcel Number:	R012965
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	2286

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	04/28/2016
Seller Name:	POMA VICTOR A
Deed Type:	GRANT DEED
Document Type:	PERSONAL REP'S DEED
Type of Transaction:	NOMINAL
Recording Date:	04/28/2016
Document Number:	1111058
Construction Type:	SALE IS A RE-SALE
InterFamily Transaction:	RELEASE OF DEED OF TRUST/MTG

Owner Information

Owner(s):	KAREN M COX
Ownership Rights:	UNDIVIDED INTEREST/ UNDIVIDED INDIVIDUAL
Property Address:	CO
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

Property Information

County:	LA PLATA
Property Type:	MISCELLANEOUS

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020

Transaction Information

Transaction Date:	04/28/2016

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County Last Updated:	08/06/2020	**Seller Name:**	POMA ETHEL I
Frequency of Update:	WEEKLY	**Deed Type:**	GRANT DEED
Current Date:	08/12/2020	**Document Type:**	PERSONAL REP'S DEED
Source:	COUNTY CLERK AND RECORDER	**Type of Transaction:**	NOMINAL
		Recording Date:	04/28/2016
		Document Number:	1111059
		Construction Type:	SALE IS A RE-SALE
		InterFamily Transaction:	RELEASE OF DEED OF TRUST/MTG

Owner Information

Owner(s):	KAREN M COX
Ownership Rights:	UNDIVIDED INTEREST/ UNDIVIDED INDIVIDUAL
Property Address:	CO
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

Property Information

County:	LA PLATA
Property Type:	MISCELLANEOUS

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	07/15/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Seller Name:	ISERMAN KAREN P
Deed Type:	QUIT CLAIM DEED
Document Type:	JOINT TENANT QUIT CLAIM DEED
Type of Transaction:	RESALE
Recording Date:	11/09/2004
Document Number:	10335

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Construction Type:	SALE IS A RE-SALE

Owner Information

Owner(s):	KAREN P COX
Property Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

Property Information

County:	ARCHULETA
Assessor's Parcel Number:	R013410
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	1260

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Vehicle Registrations (8)

To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	5XYKTCA69EG452731

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Vehicle Type:	PASSENGER CAR
Model Year:	2014
Make:	KIA
Body Style:	SUV 4D 5P
Model/Series:	SORENTO LX

Title Information:

Original Title Date:	03/18/2020
Title Number:	003517717
Name:	USAA
Interest:	OWNER
Title Transaction Date:	03/18/2020
Mailing Address:	8300 BLAKELAND DR LITTLETON, CO 80125-9741
County:	DOUGLAS
Physical Address:	8300 BLAKELAND DR LITTLETON, CO 80125-9741
County:	DOUGLAS
Name:	ASHLEY MCDONALD
Interest:	OWNER
Title Transaction Date:	02/26/2020
Mailing Address:	PO BOX 604 604 KIOWA, CO 80117-0604
County:	ELBERT
Physical Address:	100 UTE AVE C4 KIOWA, CO 80117-9370
County:	ELBERT

Lien Holder Information

Name:	ENT. CREDIT UNION
Interest:	LIEN HOLDER
Mailing Address:	PO BOX 15819 15819 COLORADO SPRINGS, CO 80935-5819
County:	EL PASO

Historical DMV Record 1

Registration Renewal Date:	08/29/2019

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Expiration Date:	08/31/2020
License Plate Number:	LYO923
Issuing State:	CO
Previous Plate Number:	LYO923
Previous Plate State:	CO
Name:	ASHLEY MCDONALD
Interest:	REGISTRANT
Mailing Address:	PO BOX 604 604 KIOWA, CO 80117-0604
County:	ELBERT
Physical Address:	100 UTE AVE KIOWA, CO 80117-9370
County:	ELBERT

Historical DMV Record 2

Registration Renewal Date:	08/14/2018
Expiration Date:	08/31/2019
License Plate Number:	LYO923
Issuing State:	CO
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	ASHLEY MCDONALD
Interest:	REGISTRANT
Mailing Address:	PO BOX 604 604 KIOWA, CO 80117-0604
County:	ELBERT
Physical Address:	100 UTE AVE KIOWA, CO 80117-9370
County:	ELBERT
Title Transfer Date:	08/01/2018
Name:	ENT. CREDIT UNION
Interest:	LIEN HOLDER
Mailing Address:	PO BOX 15819 15819 COLORADO SPRINGS, CO 80935-5819
County:	EL PASO
Title Transfer Date:	08/01/2018

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Name:	ASHLEY MCDONALD
Interest:	OWNER
Mailing Address:	PO BOX 604 604 KIOWA, CO 80117-0604
County:	ELBERT
Physical Address:	100 UTE AVE KIOWA, CO 80117-9370
County:	ELBERT
Title Transfer Date:	08/01/2018
Name:	ENT. CREDIT UINON
Interest:	LIEN HOLDER
Mailing Address:	PO BOX 15819 15819 COLORADO SPRINGS, CO 80935-5819
County:	EL PASO

Historical DMV Record 3

Registration Renewal Date:	09/06/2017
Expiration Date:	08/31/2018
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	09/06/2017
Expiration Date:	08/31/2018
Name:	DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 4

Registration Renewal Date:	08/29/2016
Expiration Date:	08/31/2017
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	08/29/2016
Expiration Date:	08/31/2017
Name:	DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 5

Registration Renewal Date:	07/30/2015
Expiration Date:	08/31/2016
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Previous Plate State:	CO
Name:	COX KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 6

Registration Renewal Date:	08/06/2014
Expiration Date:	08/31/2015
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Name:	KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	08/06/2014
Expiration Date:	08/31/2015
Name:	DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	03/14/2014
Name:	KAREN COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	03/14/2014
Name:	DEAN COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 7

Title Transfer Date:	08/22/2013
Name:	DEAN COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

End of Document

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	1GCEK19M4WE118625
Vehicle Type:	PASSENGER CAR

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Model Year:	1998
Make:	CHEVROLET
Body Style:	EXTENDED CAB 2D
Model/Series:	C/K1500 CHEYENNE SILVERADO

Registration Information

License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Registration Renewal Date:	05/04/2020
Expiration Date:	05/31/2021
Registrant(s) Since:	12/01/2000
Name:	KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	05/04/2020
Expiration Date:	05/31/2021
Registrant(s) Since:	12/01/2000
Name:	GARY D. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Title Information:

Original Title Date:	04/21/2014
Title Number:	48E137597
Name:	KAREN COX
Interest:	OWNER

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Title Transaction Date:	04/28/2014
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Name:	GARY D. COX
Interest:	OWNER
Title Transaction Date:	04/28/2014
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 1

Registration Renewal Date:	04/24/2019
Expiration Date:	05/31/2020
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Name:	GARY D. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/24/2019
Expiration Date:	05/31/2020
Name:	KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 2

Registration Renewal Date:	05/07/2018
Expiration Date:	05/31/2019
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Name:	KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	05/07/2018
Expiration Date:	05/31/2019
Name:	GARY D. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 3

Registration Renewal Date:	05/12/2017
Expiration Date:	05/31/2018
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Previous Plate State:	CO
Name:	KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	05/12/2017
Expiration Date:	05/31/2018
Name:	GARY D. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 4

Registration Renewal Date:	04/21/2014
Expiration Date:	04/30/2015
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Name:	KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/21/2014
Expiration Date:	04/30/2015
Name:	GARY COX

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	04/21/2014
Name:	GARY COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/03/2014
Expiration Date:	04/30/2015
Name:	MEADOWLARK LAKE RESORT
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/03/2014
Expiration Date:	04/30/2015
Name:	GMAC
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 5

Registration Renewal Date:	04/08/2013

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Expiration Date:	04/30/2014
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Name:	MEADOWLARK LAKE RESORT
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/08/2013
Expiration Date:	04/30/2014
Name:	GMAC
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 6

Registration Renewal Date:	04/03/2012
Expiration Date:	04/30/2013
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Name:	MEADOWLARK LAKE RESORT
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/03/2012
Expiration Date:	04/30/2013
Name:	GMAC
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 7

Registration Renewal Date:	03/31/2010
Expiration Date:	04/30/2011
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Name:	MEADOWLARK LAKE RESORT
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	03/31/2010
Expiration Date:	04/30/2011
Name:	GMAC
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

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Historical DMV Record 8

Registration Renewal Date:	04/13/2009
Expiration Date:	04/30/2010
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Name:	MEADOWLARK LAKE RESORT
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/13/2009
Expiration Date:	04/30/2010
Name:	GMAC
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 9

Registration Renewal Date:	10/31/2007
Expiration Date:	11/30/2008
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Name:	GMAC
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	10/31/2007
Expiration Date:	11/30/2008
Name:	LAKE MEADOWLARK
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 10

Registration Renewal Date:	11/14/2006
Expiration Date:	11/30/2007
License Plate Number:	18756D
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	18756D
Previous Plate State:	CO
Name:	GMAC
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	11/14/2006
Expiration Date:	11/30/2007
License Plate Number:	18756D
Issuing State:	CO
Name:	GMAC
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	11/14/2006
Expiration Date:	11/30/2007
Name:	LAKE MEADOWLARK
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 11

Title Transfer Date:	12/01/1999
Name:	GMAC
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	12/01/1999
Name:	LAKE MEADOWLARK
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

End of Document

To Summary

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Motor Vehicle Record

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	4M2ZU86W54ZJ36271
Vehicle Type:	PASSENGER CAR
Model Year:	2004
Make:	MERCURY
Body Style:	SUV WAGON 4D
Model/Series:	MOUNTAINEER BASE

Registration Information

License Plate Number:	GOT868
Issuing State:	CO
Previous Plate Number:	491LDQ
Previous Plate State:	CO
Registration Renewal Date:	01/02/2019
Expiration Date:	01/31/2020
Registrant(s) Since:	01/02/2019
Name:	TILDEN BRANDON
Interest:	REGISTRANT
Mailing Address:	25369 ROAD L CORTEZ, CO 81321-8808
County:	MONTEZUMA
Physical Address:	25369 ROAD L CORTEZ, CO 81321-8808
County:	MONTEZUMA

Title Information:

Original Title Date:	01/02/2019
Title Number:	001171024
Name:	TILDEN BRANDON
Interest:	OWNER

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Title Transaction Date:	01/02/2019
Mailing Address:	25369 ROAD L CORTEZ, CO 81321-8808
County:	MONTEZUMA
Physical Address:	25369 ROAD L CORTEZ, CO 81321-8808
County:	MONTEZUMA

Historical DMV Record 1

Registration Renewal Date:	04/06/2018
Expiration Date:	04/30/2019
License Plate Number:	491LDQ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	491LDQ
Previous Plate State:	CO
Name:	EXCLUSIVE REMODEL & HOME REPAIR
Interest:	REGISTRANT
Mailing Address:	10 TOWN PLZ DURANGO, CO 81301-5104
County:	LA PLATA
Physical Address:	120 BIG PINE TRL DURANGO, CO 81301-7788
County:	LA PLATA

Historical DMV Record 2

Registration Renewal Date:	01/31/2017
Expiration Date:	01/31/2018
License Plate Number:	491LDQ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	491LDQ
Previous Plate State:	CO
Name:	EXCLUSIVE REMODEL & HOME REPAIR
Interest:	REGISTRANT
Mailing Address:	10 TOWN PLZ DURANGO, CO 81301-5104
County:	LA PLATA
Physical Address:	120 BIG PINE TRL

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-7788
County:	LA PLATA

Historical DMV Record 3

Registration Renewal Date:	12/21/2015
Expiration Date:	01/31/2017
License Plate Number:	491LDQ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	491LDQ
Previous Plate State:	CO
Name:	EXCLUSIVE REMODEL & HOME REPAIR
Interest:	REGISTRANT
Mailing Address:	10 TOWN PLZ DURANGO, CO 81301-5104
County:	LA PLATA
Physical Address:	120 BIG PINE TRL DURANGO, CO 81301-7788
County:	LA PLATA

Historical DMV Record 4

Registration Renewal Date:	01/28/2014
Expiration Date:	01/31/2015
License Plate Number:	491LDQ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	EXCLUSIVE REMODEL & HOME REPAIR
Interest:	REGISTRANT
Mailing Address:	120 BIG PINE TRL DURANGO, CO 81301-7788
County:	LA PLATA
Physical Address:	120 BIG PINE TRL DURANGO, CO 81301-7788
County:	LA PLATA
Title Transfer Date:	01/28/2014
Name:	EXCLUSIVE REMODEL & HOME REPAIR
Interest:	OWNER

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	120 BIG PINE TRL DURANGO, CO 81301-7788
County:	LA PLATA
Physical Address:	120 BIG PINE TRL DURANGO, CO 81301-7788
County:	LA PLATA

Historical DMV Record 5

Title Transfer Date:	07/02/2013
Name:	KAREN MARIE COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	07/02/2013
Name:	GARY DEAN COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	01/30/2013
Expiration Date:	01/31/2014
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	KAREN MARIE COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	01/30/2013
Expiration Date:	01/31/2014
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 6

Registration Renewal Date:	01/10/2012
Expiration Date:	01/31/2013
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	KAREN MARIE COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	01/10/2012
Expiration Date:	01/31/2013
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical DMV Record 7

Registration Renewal Date:	02/25/2011
Expiration Date:	01/31/2012
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	KAREN MARIE COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	02/25/2011
Expiration Date:	01/31/2012
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 8

Registration Renewal Date:	01/06/2010
Expiration Date:	01/31/2011
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	KAREN MARIE COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	01/06/2010
Expiration Date:	01/31/2011
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 9

Registration Renewal Date:	01/20/2009
Expiration Date:	01/31/2010
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	KAREN MARIE COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	01/20/2009
Expiration Date:	01/31/2010
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 10

Registration Renewal Date:	04/19/2007
Expiration Date:	05/31/2008
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/19/2007
Expiration Date:	05/31/2008
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/19/2007
Expiration Date:	05/31/2008
Name:	KAREN MARIE COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	ARCHULETA
Registration Renewal Date:	04/19/2007
Expiration Date:	05/31/2008
Name:	GARY D. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 11

Registration Renewal Date:	04/27/2006
Expiration Date:	05/31/2007
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	04/27/2006
Expiration Date:	05/31/2007
License Plate Number:	969AXS
Issuing State:	CO
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

Thomson Reuters. No claim to original U.S. Government Works.

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County:	ARCHULETA

Historical DMV Record 12

Registration Renewal Date:	06/01/2005
Expiration Date:	05/31/2006
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	06/01/2005
Expiration Date:	05/31/2006
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 13

Title Transfer Date:	05/19/2004
Name:	KAREN MARIE COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

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Title Transfer Date:	05/19/2004
Name:	GARY D. COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	05/19/2004
Name:	KAREN M. COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	05/19/2004
Name:	FORD MOTOR CREDIT CO.
Interest:	LIEN HOLDER
Mailing Address:	7900 TRAID CENTER BLVD ATLANTA, GA 30348
County:	FULTON
Title Transfer Date:	05/19/2004
Name:	GARY DEAN COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

End of Document

To Summary

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Motor Vehicle Record

Source Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	1SAAS01E1P1AL1123
Vehicle Type:	UNKNOWN
Model Year:	1993
Make:	SARC
Body Style:	CAMP TRAILER

Title Information:

Original Title Date:	06/07/2019
Title Number:	001788726
Name:	MIKE ANDREATTA
Interest:	OWNER
Title Transaction Date:	06/07/2019
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Name:	CHARLA ANDREATTA
Interest:	OWNER
Title Transaction Date:	06/07/2019
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 1

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Registration Renewal Date:	07/25/2017
Expiration Date:	08/31/2018
License Plate Number:	655QGV
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	655QGV
Previous Plate State:	CO
Name:	MIKE ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	07/25/2017
Expiration Date:	08/31/2018
Name:	CHARLA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 2

Registration Renewal Date:	07/21/2016
Expiration Date:	08/31/2017
License Plate Number:	655QGV
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	655QGV
Previous Plate State:	CO
Name:	MIKE ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	07/21/2016
Expiration Date:	08/31/2017
Name:	CHARLA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 3

Registration Renewal Date:	07/31/2015
Expiration Date:	08/31/2016
License Plate Number:	655QGV
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	655QGV
Previous Plate State:	CO
Name:	MIKE ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 4

Registration Renewal Date:	08/12/2014
Expiration Date:	08/31/2015

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

License Plate Number:	655QGV
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	816MCZ
Previous Plate State:	CO
Name:	MIKE ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	08/12/2014
Expiration Date:	08/31/2015
Name:	CHARLA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Title Transfer Date:	08/12/2014
Name:	MIKE ANDREATTA
Interest:	OWNER
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Title Transfer Date:	08/12/2014
Name:	CHARLA ANDREATTA
Interest:	OWNER
Mailing Address:	PO BOX 682

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Title Transfer Date:	03/14/2014
Name:	GARY D. COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	03/14/2014
Name:	KAREN MARIE COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 5

Registration Renewal Date:	06/18/2008
Expiration Date:	09/30/2008
License Plate Number:	816MCZ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	816MCZ
Previous Plate State:	CO
Name:	KAREN MARIE COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	06/18/2008
Expiration Date:	09/30/2008
Name:	KAREN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	06/18/2008
Expiration Date:	09/30/2008
Name:	GARY D. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 6

Registration Renewal Date:	09/20/2007
Expiration Date:	09/30/2008
License Plate Number:	816MCZ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	816MCZ
Previous Plate State:	CO
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Registration Renewal Date:	09/20/2007
Expiration Date:	09/30/2008
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 7

Registration Renewal Date:	08/21/2006
Expiration Date:	09/30/2007
License Plate Number:	816MCZ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	816MCZ
Previous Plate State:	CO
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	08/21/2006
Expiration Date:	09/30/2007
License Plate Number:	816MCZ
Issuing State:	CO
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Registration Renewal Date:	08/21/2006
Expiration Date:	09/30/2007
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 8

Registration Renewal Date:	09/22/2005
Expiration Date:	09/30/2006
License Plate Number:	816MCZ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	E065527
Previous Plate State:	CO
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	09/22/2005
Expiration Date:	09/30/2006
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	04/05/2005
Name:	KAREN MARIE COX

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	04/05/2005
Name:	GARY D. COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	1G4HP52L3RH434989
Vehicle Type:	PASSENGER CAR
Model Year:	1994
Make:	BUICK
Body Style:	SEDAN 4D 5P
Model/Series:	LESABRE CUSTOM

Registration Information

License Plate Number:	DOU010
Issuing State:	CO

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Plate Type:	PRIVATE
Previous Plate Number:	DOU010
Previous Plate State:	CO
Registration Renewal Date:	04/10/2020
Expiration Date:	03/31/2021
Registrant(s) Since:	03/31/2017
Name:	MAXIMIANO VEGA
Interest:	REGISTRANT
Mailing Address:	15682 HWY 172 16 IGNACIO, CO 81137
County:	LA PLATA
Physical Address:	15682 HWY 172 16 IGNACIO, CO 81137
County:	LA PLATA

Title Information:

Original Title Date:	03/23/2017
Title Number:	20B065661
Name:	MAXIMIANO VEGA
Interest:	OWNER
Title Transaction Date:	03/23/2017
Mailing Address:	15682 HWY 172 16 IGNACIO, CO 81137
County:	LA PLATA
Physical Address:	15682 HWY 172 16 IGNACIO, CO 81137
County:	LA PLATA

Historical DMV Record 1

Registration Renewal Date:	03/19/2019
Expiration Date:	03/31/2020
License Plate Number:	DOU010
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	DOU010
Previous Plate State:	CO
Name:	MAXIMIANO VEGA
Interest:	REGISTRANT
Mailing Address:	15682 HWY 172

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	IGNACIO, CO 81137
County:	LA PLATA
Physical Address:	15682 HWY 172 IGNACIO, CO 81137
County:	LA PLATA

Historical DMV Record 2

Registration Renewal Date:	03/12/2018
Expiration Date:	03/31/2019
License Plate Number:	DOU010
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	DOU010
Previous Plate State:	CO
Name:	MAXIMIANO VEGA
Interest:	REGISTRANT
Mailing Address:	15682 HWY 172 IGNACIO, CO 81137
County:	LA PLATA
Physical Address:	15682 HWY 172 IGNACIO, CO 81137
County:	LA PLATA

Historical DMV Record 3

Registration Renewal Date:	03/31/2017
Expiration Date:	03/31/2018
License Plate Number:	DOU010
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	554RZI
Previous Plate State:	CO
Name:	MAXIMIANO VEGA
Interest:	REGISTRANT
Mailing Address:	15682 HWY 172 IGNACIO, CO 81137
County:	LA PLATA
Physical Address:	15682 HWY 172 IGNACIO, CO 81137
County:	LA PLATA

Thomson Reuters. No claim to original U.S. Government Works.

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Historical DMV Record 4

Registration Renewal Date:	03/31/2016
Expiration Date:	03/31/2017
License Plate Number:	554RZI
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	389ZHX
Previous Plate State:	CO
Name:	OSCAR VEGA BOJORQUEZ
Interest:	REGISTRANT
Mailing Address:	378 VISTA DE LA PLATA CIR IGNACIO, CO 81137-9747
County:	LA PLATA
Physical Address:	378 VISTA DE LA PLATA CIR IGNACIO, CO 81137-9747
County:	LA PLATA

Historical DMV Record 5

Title Transfer Date:	12/08/2015
Name:	OSCAR VEGA BOJORQUEZ
Interest:	OWNER
Mailing Address:	378 VISTA DE LA PLATA CIR IGNACIO, CO 81137-9747
County:	LA PLATA
Physical Address:	378 VISTA DE LA PLATA CIR IGNACIO, CO 81137-9747
County:	LA PLATA
Registration Renewal Date:	01/02/2015
Expiration Date:	01/31/2016
License Plate Number:	389ZHX
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	389ZHX
Previous Plate State:	CO
Name:	RIGOBERTO GARCIA
Interest:	REGISTRANT
Mailing Address:	PO BOX 1881 1881

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	IGNACIO, CO 81137-1881
County:	LA PLATA
Physical Address:	378 VISTA DE LA PLATA CIR IGNACIO, CO 81137-9747
County:	LA PLATA
Registration Renewal Date:	01/02/2015
Expiration Date:	01/31/2016
Name:	RIGOBERTO GARCIA BOJORQUEZ
Interest:	REGISTRANT
Mailing Address:	PO BOX 1881 1881 IGNACIO, CO 81137-1881
County:	LA PLATA
Physical Address:	378 VISTA DE LA PLATA CIR IGNACIO, CO 81137-9747
County:	LA PLATA

Historical DMV Record 6

Registration Renewal Date:	10/11/2013
Expiration Date:	10/31/2014
License Plate Number:	389ZHX
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	128YLN
Previous Plate State:	CO
Name:	RIGOBERTO GARCIA BOJORQUEZ
Interest:	REGISTRANT
Mailing Address:	PO BOX 1881 1881 IGNACIO, CO 81137-1881
County:	LA PLATA
Physical Address:	378 VISTA DE LA PLATA CIR IGNACIO, CO 81137-9747
County:	LA PLATA
Title Transfer Date:	10/11/2013
Name:	RIGOBERTO GARCIA
Interest:	OWNER
Mailing Address:	PO BOX 1881 1881

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	IGNACIO, CO 81137-1881
County:	LA PLATA
Physical Address:	378 VISTA DE LA PLATA CIR IGNACIO, CO 81137-9747
County:	LA PLATA
Title Transfer Date:	10/11/2013
Name:	RIGOBERTO GARCIA BOJORQUEZ
Interest:	OWNER
Mailing Address:	PO BOX 1881 1881 IGNACIO, CO 81137-1881
County:	LA PLATA
Physical Address:	378 VISTA DE LA PLATA CIR IGNACIO, CO 81137-9747
County:	LA PLATA

Historical DMV Record 7

Registration Renewal Date:	11/02/2012
Expiration Date:	11/30/2013
License Plate Number:	128YLN
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	YU3703
Previous Plate State:	CO
Name:	RICHARD S. KENT
Interest:	REGISTRANT
Mailing Address:	PO BOX 1472 1472 IGNACIO, CO 81137-1472
County:	LA PLATA
Physical Address:	169 COUNTY RD 320 IGNACIO, CO 81137
County:	LA PLATA
Registration Renewal Date:	11/02/2012
Expiration Date:	11/30/2013
Name:	KATHERYN K. KENT
Interest:	REGISTRANT
Mailing Address:	PO BOX 1472 1472

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	IGNACIO, CO 81137-1472
County:	LA PLATA
Physical Address:	169 COUNTY RD 320 IGNACIO, CO 81137
County:	LA PLATA
Title Transfer Date:	11/02/2012
Name:	RICHARD S. KENT
Interest:	OWNER
Mailing Address:	PO BOX 1472 1472 IGNACIO, CO 81137-1472
County:	LA PLATA
Physical Address:	169 COUNTY RD 320 IGNACIO, CO 81137
County:	LA PLATA
Title Transfer Date:	11/02/2012
Name:	KATHERYN K. KENT
Interest:	OWNER
Mailing Address:	PO BOX 1472 1472 IGNACIO, CO 81137-1472
County:	LA PLATA
Physical Address:	169 COUNTY RD 320 IGNACIO, CO 81137
County:	LA PLATA

Historical DMV Record 8

Registration Renewal Date:	06/29/2011
Expiration Date:	07/31/2012
License Plate Number:	YU3703
Issuing State:	CO
Previous Plate Number:	YU3703
Previous Plate State:	CO
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	PO BOX 550 550 PAGOSA SPRINGS, CO 81147-0550
County:	ARCHULETA

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Physical Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147-9740
County:	ARCHULETA
Registration Renewal Date:	06/29/2011
Expiration Date:	07/31/2012
Name:	ETHEL I. POMA
Interest:	REGISTRANT
Mailing Address:	PO BOX 550 550 PAGOSA SPRINGS, CO 81147-0550
County:	ARCHULETA
Physical Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147-9740
County:	ARCHULETA

Historical DMV Record 9

Registration Renewal Date:	07/08/2010
Expiration Date:	07/31/2011
License Plate Number:	YU3703
Issuing State:	CO
Previous Plate Number:	YU3703
Previous Plate State:	CO
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	PO BOX 550 550 PAGOSA SPRINGS, CO 81147-0550
County:	ARCHULETA
Physical Address:	1681 W HIGHWAY 160 PAGOSA SPRINGS, CO 81147
County:	ARCHULETA
Registration Renewal Date:	07/08/2010
Expiration Date:	07/31/2011
Name:	ETHEL I. POMA
Interest:	REGISTRANT
Mailing Address:	PO BOX 550 550 PAGOSA SPRINGS, CO 81147-0550
County:	ARCHULETA

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Physical Address:	1681 W HIGHWAY 160 PAGOSA SPRINGS, CO 81147
County:	ARCHULETA

Historical DMV Record 10

Registration Renewal Date:	06/22/2009
Expiration Date:	07/31/2010
License Plate Number:	YU3703
Issuing State:	CO
Previous Plate Number:	YU3703
Previous Plate State:	CO
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	PO BOX 550 550 PAGOSA SPRINGS, CO 81147-0550
County:	ARCHULETA
Physical Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147-9740
County:	ARCHULETA
Registration Renewal Date:	06/22/2009
Expiration Date:	07/31/2010
Name:	ETHEL I. POMA
Interest:	REGISTRANT
Mailing Address:	PO BOX 550 550 PAGOSA SPRINGS, CO 81147-0550
County:	ARCHULETA
Physical Address:	7474 COUNTY ROAD 600 PAGOSA SPGS, CO 81147-9370
County:	ARCHULETA

Historical DMV Record 11

Registration Renewal Date:	06/16/2008
Expiration Date:	07/31/2009
License Plate Number:	YU3703
Issuing State:	CO
Previous Plate Number:	YU3703
Previous Plate State:	CO

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Name:	ETHEL I. POMA
Interest:	REGISTRANT
Mailing Address:	PO BOX 550 550 PAGOSA SPRINGS, CO 81147-0550
County:	ARCHULETA
Physical Address:	1681 W HIGHWAY 160 PAGOSA SPRINGS, CO 81147
County:	ARCHULETA
Registration Renewal Date:	06/16/2008
Expiration Date:	07/31/2009
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	PO BOX 550 550 PAGOSA SPRINGS, CO 81147-0550
County:	ARCHULETA
Physical Address:	1681 W HIGHWAY 160 PAGOSA SPRINGS, CO 81147
County:	ARCHULETA

Historical DMV Record 12

Registration Renewal Date:	06/28/2007
Expiration Date:	07/31/2008
License Plate Number:	YU3703
Issuing State:	CO
Previous Plate Number:	YU3703
Previous Plate State:	CO
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	PO BOX 550 550 PAGOSA SPRINGS, CO 81147-0550
County:	ARCHULETA
Physical Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147-9740
County:	ARCHULETA
Registration Renewal Date:	06/28/2007
Expiration Date:	07/31/2008

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Name:	ETHEL I. POMA
Interest:	REGISTRANT
Mailing Address:	PO BOX 550 550 PAGOSA SPRINGS, CO 81147-0550
County:	ARCHULETA
Physical Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147-9740
County:	ARCHULETA

Historical DMV Record 13

Registration Renewal Date:	06/21/2006
Expiration Date:	07/31/2007
License Plate Number:	YU3703
Issuing State:	CO
Previous Plate Number:	YU3703
Previous Plate State:	CO
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	PO BOX 550 550 PAGOSA SPRINGS, CO 81147-0550
County:	ARCHULETA
Physical Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147-9740
County:	ARCHULETA
Registration Renewal Date:	06/21/2006
Expiration Date:	07/31/2007
License Plate Number:	YU3703
Issuing State:	CO
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	PO BOX 550 550 PAGOSA SPRINGS, CO 81147-0550
County:	ARCHULETA
Physical Address:	1681 E HIGHWAY 160 PO BOX 550 550 PAGOSA SPRINGS, CO 81147-9740

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County:	ARCHULETA
Registration Renewal Date:	06/21/2006
Expiration Date:	07/31/2007
Name:	ETHEL I. POMA
Interest:	REGISTRANT
Mailing Address:	PO BOX 550 550 PAGOSA SPRINGS, CO 81147-0550
County:	ARCHULETA
Physical Address:	1681 E HIGHWAY 160 PO BOX 550 550 PAGOSA SPRINGS, CO 81147-9740
County:	ARCHULETA

Historical DMV Record 14

Registration Renewal Date:	06/02/2005
Expiration Date:	07/31/2006
License Plate Number:	YU3703
Issuing State:	CO
Previous Plate Number:	YU3703
Previous Plate State:	CO
Name:	ETHEL I. POMA
Interest:	REGISTRANT
Mailing Address:	PO BOX 550 550 PAGOSA SPRINGS, CO 81147-0550
County:	ARCHULETA
Physical Address:	1681 E HIGHWAY 160 PAGOSA SPRINGS, CO 81147-9740
County:	ARCHULETA
Registration Renewal Date:	06/02/2005
Expiration Date:	07/31/2006
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	PO BOX 550 550 PAGOSA SPRINGS, CO 81147-0550
County:	ARCHULETA
Physical Address:	1681 E HIGHWAY 160

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	PAGOSA SPRINGS, CO 81147-9740
County:	ARCHULETA

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	1C4PJMDXXJD586324
Vehicle Type:	PASSENGER CAR
Model Year:	2018
Make:	JEEP
Body Style:	SUV 4D 5P
Model/Series:	CHEROKEE LIMITED

Registration Information

License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Registration Renewal Date:	07/14/2020
Expiration Date:	07/31/2021
Registrant(s) Since:	07/06/2018
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738

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County:	ARCHULETA

Title Information:

Original Title Date:	06/14/2018
Title Number:	48E157911
Name:	KAREN M. COX
Interest:	OWNER
Title Transaction Date:	06/20/2018
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 1

Registration Renewal Date:	08/01/2019
Expiration Date:	07/31/2020
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	969AXS
Previous Plate State:	CO
Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 2

Registration Renewal Date:	07/06/2018
Expiration Date:	07/31/2019
License Plate Number:	969AXS
Issuing State:	CO
Plate Type:	PRIVATE
Name:	KAREN M. COX

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Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	06/14/2018
Name:	KAREN COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	ID21142696CO
Vehicle Type:	UNKNOWN
Model Year:	1994
Make:	HMD
Body Style:	TU

Registration Information

License Plate Number:	685MLJ
Issuing State:	CO
Plate Type:	TRAILER

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Previous Plate Number:	685MLJ
Previous Plate State:	CO
Registration Renewal Date:	10/05/2007
Expiration Date:	10/31/2008
Registrant(s) Since:	10/13/2005
Name:	KAREN MARIE COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	10/05/2007
Expiration Date:	10/31/2008
Registrant(s) Since:	10/13/2005
Name:	GARY D. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	10/05/2007
Expiration Date:	10/31/2008
Registrant(s) Since:	10/13/2005
Name:	GARY DEAN COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Registration Renewal Date:	10/05/2007
Expiration Date:	10/31/2008
Registrant(s) Since:	10/13/2005

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Name:	KAREN M. COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 1

Title Transfer Date:	03/31/2005
Name:	GARY DEAN COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	03/31/2005
Name:	KAREN M. COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

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To Summary

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Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	1GCGK13U42F175297
Vehicle Type:	PASSENGER CAR
Model Year:	2002
Make:	CHEVROLET
Body Style:	CREW CAB 4D
Model/Series:	SILVERADO 1500 LS LT

Registration Information

License Plate Number:	693YGC
Issuing State:	CO
Previous Plate Number:	693YGC
Previous Plate State:	CO
Registration Renewal Date:	03/09/2018
Expiration Date:	02/28/2019
Registrant(s) Since:	02/27/2013
Name:	NATHAN CHARLES MALLETT
Interest:	REGISTRANT
Mailing Address:	66 MOONRIDGE DR DURANGO, CO 81303-6666
County:	LA PLATA
Physical Address:	66 MOONRIDGE DR DURANGO, CO 81303-6666
County:	LA PLATA

Title Information:

Original Title Date:	02/27/2013
Title Number:	20E581009
Name:	NATHAN CHARLES MALLETT
Interest:	OWNER
Title Transaction Date:	02/27/2013
Mailing Address:	66 MOONRIDGE DR DURANGO, CO 81303-6666
County:	LA PLATA
Physical Address:	66 MOONRIDGE DR DURANGO, CO 81303-6666
County:	LA PLATA

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Historical DMV Record 1

Registration Renewal Date:	12/18/2009
Expiration Date:	11/30/2010
License Plate Number:	325PHC
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	325PHC
Previous Plate State:	CO
Name:	AREA BEST HEATING & AIR LLC
Interest:	REGISTRANT
Mailing Address:	292 LOMA LINDA DR PAGOSA SPRINGS, CO 81147-7778
County:	ARCHULETA
Physical Address:	292 LOMA LINDA DR PAGOSA SPRINGS, CO 81147-7778
County:	ARCHULETA

Historical DMV Record 2

Title Transfer Date:	11/20/2007
Name:	AREA BEST HEATING & AIR LLC
Interest:	OWNER
Mailing Address:	292 LOMA LINDA DR PAGOSA SPRINGS, CO 81147-7778
County:	ARCHULETA
Physical Address:	292 LOMA LINDA DR PAGOSA SPRINGS, CO 81147-7778
County:	ARCHULETA

Historical DMV Record 3

Registration Renewal Date:	01/24/2017
Expiration Date:	02/28/2018
License Plate Number:	693YGC
Issuing State:	CO
Previous Plate Number:	693YGC
Previous Plate State:	CO
Name:	NATHAN CHARLES MALLETT
Interest:	REGISTRANT
Mailing Address:	66 MOONRIDGE DR

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81303-6666
County:	LA PLATA
Physical Address:	66 MOONRIDGE DR DURANGO, CO 81303-6666
County:	LA PLATA

Historical DMV Record 4

Registration Renewal Date:	01/26/2016
Expiration Date:	02/28/2017
License Plate Number:	693YGC
Issuing State:	CO
Previous Plate Number:	693YGC
Previous Plate State:	CO
Name:	NATHAN CHARLES MALLETT
Interest:	REGISTRANT
Mailing Address:	66 MOONRIDGE DR DURANGO, CO 81303-6666
County:	LA PLATA
Physical Address:	66 MOONRIDGE DR DURANGO, CO 81303-6666
County:	LA PLATA

Historical DMV Record 5

Registration Renewal Date:	02/02/2015
Expiration Date:	02/28/2016
License Plate Number:	693YGC
Issuing State:	CO
Previous Plate Number:	693YGC
Previous Plate State:	CO
Name:	NATHAN CHARLES MALLETT
Interest:	REGISTRANT
Mailing Address:	66 MOONRIDGE DR DURANGO, CO 81303-6666
County:	LA PLATA
Physical Address:	66 MOONRIDGE DR DURANGO, CO 81303-6666
County:	LA PLATA

Historical DMV Record 6

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Registration Renewal Date:	01/22/2014
Expiration Date:	02/28/2015
License Plate Number:	693YGC
Issuing State:	CO
Previous Plate Number:	693YGC
Previous Plate State:	CO
Name:	NATHAN CHARLES MALLETT
Interest:	REGISTRANT
Mailing Address:	66 MOONRIDGE DR DURANGO, CO 81303-6666
County:	LA PLATA
Physical Address:	66 MOONRIDGE DR DURANGO, CO 81303-6666
County:	LA PLATA

Historical DMV Record 7

Registration Renewal Date:	02/27/2013
Expiration Date:	02/28/2014
License Plate Number:	693YGC
Issuing State:	CO
Previous Plate Number:	721VPC
Previous Plate State:	CO
Name:	NATHAN CHARLES MALLETT
Interest:	REGISTRANT
Mailing Address:	66 MOONRIDGE DR DURANGO, CO 81303-6666
County:	LA PLATA
Physical Address:	66 MOONRIDGE DR DURANGO, CO 81303-6666
County:	LA PLATA

Historical DMV Record 8

Registration Renewal Date:	04/24/2012
Expiration Date:	05/31/2013
License Plate Number:	721VPC
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	325PHC
Previous Plate State:	CO

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Name:	KAREN MARIE COX
Interest:	REGISTRANT
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA

Historical DMV Record 9

Title Transfer Date:	05/16/2011
Name:	KAREN MARIE COX
Interest:	OWNER
Mailing Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Physical Address:	95 CLOVER LN PAGOSA SPRINGS, CO 81147-7738
County:	ARCHULETA
Title Transfer Date:	05/13/2011
Name:	AREA BEST HEATING & AIR LLC
Interest:	OWNER
Mailing Address:	292 LOMA LINDA DR PAGOSA SPRINGS, CO 81147-7778
County:	ARCHULETA
Physical Address:	292 LOMA LINDA DR PAGOSA SPRINGS, CO 81147-7778
County:	ARCHULETA

Historical DMV Record 10

Registration Renewal Date:	11/10/2010
Expiration Date:	11/30/2011
License Plate Number:	325PHC
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	325PHC
Previous Plate State:	CO
Name:	AREA BEST HEATING & AIR LLC
Interest:	REGISTRANT

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	292 LOMA LINDA DR PAGOSA SPRINGS, CO 81147-7778
County:	ARCHULETA
Physical Address:	292 LOMA LINDA DR PAGOSA SPRINGS, CO 81147-7778
County:	ARCHULETA

Historical DMV Record 11

Registration Renewal Date:	11/20/2008
Expiration Date:	11/30/2009
License Plate Number:	325PHC
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	325PHC
Previous Plate State:	CO
Name:	AREA BEST HEATING & AIR LLC
Interest:	REGISTRANT
Mailing Address:	292 LOMA LINDA DR PAGOSA SPRINGS, CO 81147-7778
County:	ARCHULETA
Physical Address:	292 LOMA LINDA DR PAGOSA SPRINGS, CO 81147-7778
County:	ARCHULETA

Historical DMV Record 12

Registration Renewal Date:	11/20/2007
Expiration Date:	11/30/2008
License Plate Number:	325PHC
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	049KVB
Previous Plate State:	CO
Name:	AREA BEST HEATING & AIR LLC
Interest:	REGISTRANT
Mailing Address:	292 LOMA LINDA DR PAGOSA SPRINGS, CO 81147-7778
County:	ARCHULETA
Physical Address:	292 LOMA LINDA DR PAGOSA SPRINGS, CO 81147-7778

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	ARCHULETA

Historical DMV Record 13

Registration Renewal Date:	10/24/2006
Expiration Date:	11/30/2007
License Plate Number:	049KVB
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	049KVB
Previous Plate State:	CO
Name:	JOHN C. NEILL
Interest:	REGISTRANT
Mailing Address:	1405 MAJESTIC DR PAGOSA SPRINGS, CO 81147
County:	ARCHULETA
Physical Address:	1405 MAJESTIC DR PAGOSA SPRINGS, CO 81147
County:	ARCHULETA
Registration Renewal Date:	10/24/2006
Expiration Date:	11/30/2007
License Plate Number:	049KVB
Issuing State:	CO
Name:	JOHN C. NEILL
Interest:	REGISTRANT
Mailing Address:	1405 MAJESTIC DR PAGOSA SPRINGS, CO 81147
County:	ARCHULETA
Physical Address:	1405 MAJESTIC DR PAGOSA SPRINGS, CO 81147
County:	ARCHULETA
Registration Renewal Date:	10/24/2006
Expiration Date:	11/30/2007
Name:	CHARLENE NEILL
Interest:	REGISTRANT
Mailing Address:	1405 MAJESTIC DR PAGOSA SPRINGS, CO 81147
County:	ARCHULETA
Physical Address:	1405 MAJESTIC DR PAGOSA SPRINGS, CO 81147

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	ARCHULETA

Historical DMV Record 14

Title Transfer Date:	11/04/2004
Name:	JOHN C. NEILL
Interest:	OWNER
Mailing Address:	578 SADDLEBACK DR PAGOSA SPRINGS, CO 81147-7773
County:	ARCHULETA
Physical Address:	578 SADDLEBACK DR PAGOSA SPRINGS, CO 81147-7773
County:	ARCHULETA
Title Transfer Date:	11/04/2004
Name:	CHARLENE NEILL
Interest:	OWNER
Mailing Address:	578 SADDLEBACK DR PAGOSA SPRINGS, CO 81147-7773
County:	ARCHULETA
Physical Address:	578 SADDLEBACK DR PAGOSA SPRINGS, CO 81147-7773
County:	ARCHULETA

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Executive Profile (6)

To Summary

Executive Profile Record

Source Information

Information Current Through:	05/05/2016
Database Last Updated:	11/16/2016
Update Frequency:	SEMI-ANNUAL
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Executive Business Information

Business Name:	V A POMA RANCH
Executive Title:	MANAGER
Address:	PO BOX 550 PAGOSA SPRINGS, CO 81147-0550
Business Phone:	970-731-5746
County:	ARCHULETA
Employees at Location:	5 - 9 EMPLOYEES
Sales from Location:	$500,000 - $1 MILLION

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Primary SIC:	701108 CHALET & CABIN RENTALS

Executive Information

Executive Name:	KAREN M COX
Gender:	FEMALE
Age:	66
Marital Status:	MARRIED

Executive Household Information

Address:	95 CLOVER LN PAGOSA SPGS, CO 81147-7738
Location Type:	SINGLE FAMILY DWELLING
Occupancy Type:	CONFIRMED HOMEOWNER
Home/Personal Phone:	970-264-2012
County:	ARCHULETA
MSA:	0000

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To Summary

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Executive Profile Record

Source Information

Information Current Through:	05/05/2016
Database Last Updated:	11/16/2016
Update Frequency:	SEMI-ANNUAL
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Executive Business Information

Business Name:	VA POMA RANCH
Executive Title:	MANAGER
Address:	PO BOX 550 PAGOSA SPRINGS, CO 81147-0550
Business Phone:	970-731-5746
County:	ARCHULETA
Employees at Location:	5 - 9 EMPLOYEES
Sales from Location:	$500,000 - $1 MILLION
Primary SIC:	701108 CHALET & CABIN RENTALS

Executive Information

Executive Name:	KAREN M COX
Gender:	FEMALE
Age:	67
Marital Status:	MARRIED

Executive Household Information

Address:	95 CLOVER LN PAGOSA SPGS, CO 81147-7738

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Location Type:	SINGLE FAMILY DWELLING
Occupancy Type:	CONFIRMED HOMEOWNER
Home/Personal Phone:	970-264-2012
County:	ARCHULETA
MSA:	0000

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To Summary

Executive Profile Record

Source Information

Information Current Through:	05/05/2016
Database Last Updated:	11/16/2016
Update Frequency:	SEMI-ANNUAL
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Executive Information

Executive Name:	KAREN COX
Gender:	FEMALE
Age:	69
Marital Status:	MARRIED

Executive Business Information

Business Name:	VA POMA RANCH
Executive Title:	MANAGER
Address:	PO BOX 550 PAGOSA SPRINGS, CO 81147-0550
Business Phone:	970-731-5746
County:	ARCHULETA
Employees at Location:	5 - 9 EMPLOYEES
Sales from Location:	$500,000 - $1 MILLION
Primary SIC:	701108 CHALET & CABIN RENTALS

Executive Household Information

Address:	95 CLOVER LN PAGOSA SPGS, CO 81147-7738
Location Type:	SINGLE FAMILY DWELLING
Occupancy Type:	CONFIRMED HOMEOWNER
Home/Personal Phone:	970-264-2012
County:	ARCHULETA

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To Summary

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Executive Profile Record

Source Information

Information Current Through:	05/05/2016
Database Last Updated:	11/16/2016
Update Frequency:	SEMI-ANNUAL
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Executive Information

Executive Name:	KAREN COX
Gender:	FEMALE
Age:	71
Marital Status:	MARRIED

Executive Business Information

Business Name:	VA POMA RANCH
Executive Title:	MANAGER
Address:	PO BOX 550 PAGOSA SPRINGS, CO 81147-0550
Business Phone:	970-731-5746
County:	ARCHULETA
Employees at Location:	5 - 9 EMPLOYEES
Sales from Location:	$500,000 - $1 MILLION
Primary SIC:	701108 CHALET & CABIN RENTALS

Executive Household Information

Address:	95 CLOVER LN PAGOSA SPGS, CO 81147-7738
Location Type:	SINGLE FAMILY DWELLING
Occupancy Type:	CONFIRMED HOMEOWNER
Home/Personal Phone:	970-264-2012
County:	ARCHULETA

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To Summary

Executive Profile Record

Source Information

Information Current Through:	05/05/2016
Database Last Updated:	11/16/2016
Update Frequency:	SEMI-ANNUAL

Executive Business Information

Business Name:	VA POMA RANCH
Executive Title:	MANAGER
Address:	PO BOX 550

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Executive Information

Executive Name:	KAREN COX
Gender:	FEMALE
Age:	70
Marital Status:	MARRIED

	PAGOSA SPRINGS, CO 81147-0550
Business Phone:	970-731-5746
County:	ARCHULETA
Employees at Location:	5 - 9 EMPLOYEES
Sales from Location:	$500,000 - $1 MILLION
Primary SIC:	701108 CHALET & CABIN RENTALS

Executive Household Information

Address:	95 CLOVER LN PAGOSA SPGS, CO 81147-7738
Location Type:	SINGLE FAMILY DWELLING
Occupancy Type:	CONFIRMED HOMEOWNER
Home/Personal Phone:	970-264-2012
County:	ARCHULETA

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To Summary

Executive Profile Record

Source Information

Information Current Through:	05/05/2016
Database Last Updated:	11/16/2016
Update Frequency:	SEMI-ANNUAL
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Executive Information

Executive Name:	KAREN M COX

Executive Business Information

Business Name:	VA POMA RANCH
Executive Title:	MANAGER
Address:	PO BOX 550 PAGOSA SPRINGS, CO 81147-0550
Business Phone:	970-731-5746
County:	ARCHULETA
Employees at Location:	5 - 9 EMPLOYEES
Sales from Location:	$500,000 - $1 MILLION
Primary SIC:	701108 CHALET & CABIN RENTALS

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Gender:	FEMALE
Age:	68
Marital Status:	MARRIED

Executive Household Information

Address:	95 CLOVER LN PAGOSA SPGS, CO 81147-7738
Location Type:	SINGLE FAMILY DWELLING
Occupancy Type:	CONFIRMED HOMEOWNER
Home/Personal Phone:	970-264-2012
County:	ARCHULETA

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Corporate Records & Business Registrations (2)

To Summary

Corporate Records & Business Registrations

Source Information

Information Current Through:	08/09/2020
Database Last Updated:	08/12/2020
Update Frequency:	WEEKLY
Current Date:	08/12/2020
Source:	AS REPORTED BY THE SECRETARY OF STATE OR OTHER OFFICIAL SOURCE

Company Information

Name:	COX DYNAMICS, INC.
Address:	%KAREN COX;95 CLOVER LANE PEGOSA SPRINGS, CO 81147

Registered Agent Information

Name:	KAREN COX
Address:	RT 1 BOX 3602;GRAND TARGHEE RESORT ALTA, WY 83422

Additional Detail Information

Additional Details:	THE LAST ANNUAL REPORT SUBMITTED TO THE STATE WAS FOR 1998 STATE REFERENCE # 419945

The preceding public record data is for information purposes only and is not the official record. Certified copies can only be obtained from the official source.

The public record items reported above may have been paid, terminated, vacated or released prior to today's date.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Filing Information

Identification Number:	1990002631991
Filing Date:	11/13/1990
State of Incorporation:	COLORADO
Expiration Date:	11/13/9090
Status:	WITHDRAW / DISOLVE / CANCEL
Status Attained Date:	11/01/1999
Corporation Type:	PROFIT
Business Type:	CORPORATION
Address Type:	MAILING
Where Filed:	SECRETARY OF STATE/ CORPORATIONS DIVISION
	200 W 24TH ST STATE CAPITOL CHEYENNE, WY 82002

Order Documents

Call Westlaw CourtExpress at 1-877-DOC-RETR (1-877-362-7387) for on-site manual retrieval of documents related to this or other matters. Additional charges apply.

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Corporate Records & Business Registrations

Source Information

Information Current Through:	08/04/2020
Database Last Updated:	08/12/2020
Update Frequency:	WEEKLY
Current Date:	08/12/2020
Source:	AS REPORTED BY THE SECRETARY OF STATE OR OTHER OFFICIAL SOURCE

Registered Agent Information

Name:	KAREN COX
Address:	95 CLOVER LANE PAGOSA SPRINGS, CO 81147

Amendment Information

Amendments:	03/20/2012 MISCELLANEOUS DISSOLVE A PROFIT CORPORATION

Company Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Name:	COX DYNAMICS, INC., DISSOLVED MARCH 20, 2012
Address:	P.O. BOX 4487 PAGOSA SPRINGS, CO 81157

Filing Information

Identification Number:	19891054437
Filing Date:	05/18/1989
State of Incorporation:	COLORADO
Date Incorporated:	05/18/1989
Status:	VOLUNTARILY DISSOLVED
Corporation Type:	NOT AVAILABLE
Business Type:	CORPORATION
Address Type:	MAILING
Where Filed:	DEPT OF STATE/ DIVISION OF COMMERCIAL RECORDINGS
	1560 BROADWAY DENVER, CO 80202

	07/28/2011 MISCELLANEOUS FILE REPORT
	08/08/2010 MISCELLANEOUS FILE REPORT
	07/31/2009 MISCELLANEOUS FILE REPORT
	07/27/2008 MISCELLANEOUS FILE REPORT
	09/17/2007 MISCELLANEOUS FILE REPORT
	07/25/2006 MISCELLANEOUS FILE REPORT;CHANGE OF REGISTERED AGENT / CHANGE OF REGISTERED AGENT ADDRESS / CHANGE OF ENTITY ADDRESS
	07/19/2005 MISCELLANEOUS FILE REPORT;CHANGE OF REGISTERED AGENT ADDRESS / CHANGE OF ENTITY ADDRESS
	09/22/2004 MISCELLANEOUS FILE REPORT
	07/02/2003 MISCELLANEOUS STATEMENT OF OLDER PERIODIC REPORT;CORP REPORT
	07/03/2002 MISCELLANEOUS STATEMENT OF OLDER

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	PERIODIC REPORT;CORP REPORT
	06/04/2001 MISCELLANEOUS AMENDMENT;CHANGE RORA
	07/27/1999 MISCELLANEOUS AMENDMENT;CHANGE RORA
	07/30/1997 MISCELLANEOUS AMENDMENT;CHANGE RORA
	12/14/1996 MISCELLANEOUS STATEMENT OF OLDER PERIODIC REPORT;CR91 - 07/26/91 - 911058795
	09/11/1995 MISCELLANEOUS REINSTATEMENT;APPL FOR REINS INCL CHANGE OF RORA
	05/18/1995 MISCELLANEOUS AMENDMENT;AGENT RESIGNATION LETTER
	07/09/1993 MISCELLANEOUS STATEMENT OF OLDER PERIODIC REPORT;CORP REPORT
	05/18/1989 MISCELLANEOUS ARTICLES OF INCORPORATION;COX DYNAMICS, INC.

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Order Documents

Call Westlaw CourtExpress at 1-877-DOC-RETR (1-877-362-7387) for on-site manual retrieval of documents related to this or other matters. Additional charges apply.

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Household Records (3)

To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	MESA, AZ 85205
County:	MARICOPA
Latitude/Longitude:	-111.7148/33.4306
Address First Reported:	2018
Telephone:	480-396-2355

Head of Household Information

Head of Household:	MS KAREN COX
Gender:	FEMALE
Name/Address Confirmed:	10/2018
Marital Status:	SINGLE

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To Summary

People Finder Household-Centric Record

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	95 CLOVER LN PAGOSA SPGS, CO 81147-7738
County:	ARCHULETA
Latitude/Longitude:	-106.992906/37.225519
Residence Type:	SINGLE FAMILY DWELLING
Address First Reported:	1999
Telephone:	970-264-2012

Head of Household Information

Head of Household:	MR GARY D COX
Gender:	MALE
Date of Birth:	10/XX/1940
Name/Address Confirmed:	11/2018
Marital Status:	MARRIED

Additional Individuals In This Household

Name:	MS CAROL M COX (Spouse)
Gender:	FEMALE
Date of Birth:	10/XX/1951
Name/Address Confirmed:	09/2019
Marital Status:	MARRIED
Name:	MR DEAN G COX
Gender:	MALE
Date of Birth:	10/XX/1940
Name/Address Confirmed:	10/2019
Name:	MS KAREN M COX
Gender:	FEMALE
Date of Birth:	02/XX/1944
Name/Address Confirmed:	10/2019

End of Document

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To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020

Household Information:

Address:	95 CLOVER LN

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

	PAGOSA SPGS, CO 81147-7738
County:	ARCHULETA
Latitude/Longitude:	37.225374/-106.993064
Residence Type:	SINGLE FAMILY DWELLING
Address First Reported:	1999
Telephone:	970-264-2012
Service Type:	VOICE LINE

Head of Household Information

Head of Household:	MS KAREN M COX
Gender:	FEMALE
Date of Birth:	02/XX/1944
Name/Address Confirmed:	10/2015
Marital Status:	MARRIED

Additional Individuals In This Household

Name:	MR DEAN G COX (Spouse)
Gender:	MALE
Date of Birth:	10/XX/1940
Name/Address Confirmed:	10/2015
Marital Status:	MARRIED

End of Document

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Possible Relatives & Household Members

Household Records

MESA, AZ 85205 | Full-Text

Address First Reported:	2018	**Phone:**	480-396-2355	**Confidence Score:**	77

Name	Role	Date of Birth	Name/Address Confirmed:
MS KAREN COX	Head of Household	N/A	10/2018

95 CLOVER LN PAGOSA SPGS, CO 81147-7738 | Full-Text

Address First Reported:	1999	**Phone:**	970-264-2012	**Confidence Score:**	98

Name	Role	Date of Birth	Name/Address Confirmed:
MR GARY D COX	Head of Household	10/XX/1940	11/2018
MS CAROL M COX	Spouse	10/XX/1951	09/2019
MR DEAN G COX	Other	10/XX/1940	10/2019

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Name	Role	Date of Birth	Name/Address Confirmed:
MS KAREN M COX	Other	02/XX/1944	10/2019

95 CLOVER LN PAGOSA SPGS, CO 81147-7738 | Full-Text

Address First Reported:	1999	Phone:	970-264-2012	Confidence Score:	98

Name	Role	Date of Birth	Name/Address Confirmed:
MS KAREN M COX	Head of Household	02/XX/1944	10/2015
MR DEAN G COX	Spouse	10/XX/1940	10/2015

Possible Named Parties

People Associations

JOHN B COX	MAXIMIANO VEGA
LIBBY COX	SARA BLAKEMORE
ETHEL I POMA	LIBBY COX
CHARLENE S NEILL	KATHERINE COX
JOYCE A COX	MARK BLAKEMORE
LIBBY COX	KAREN COX
KAREN GREENTHAL	CAROL M COX
KAREN L COX	RIGOBERTO GARCIA
ASHLEY MCDONALD	BRANDON TILDEN
NATHAN C MALLETT	JOHN C NEILL
LIBBY COX	KAREN E WICKER
CHARLA ANDREATTA	KATHRYN C COX
KAREN D PELLETIER	RICHARD S KENT
CAREN LEFEVRE	ELIZABETH Z COX
ELIZABETH COX	MARIA M VEGA
DEAN COX	SUSAN K COX
KATHERYN K KENT	MICHAEL F ANDREATTA
LIBBY COX	RIGOBERTO GARCIA
MEADOWLARK LAKE RESORT	KAREN COX
KAREN COX	

Business Associations

BANK OF	ENT FEDERAL CREDIT UNION
ART & FRAMING CENTER OF PAGOSA	VA POMA RANCH

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TAMINAH CUSTOM FRAMING GALLERY

No Documents Found

No Documents Were Found In These Sources

Aircraft Records	Bankruptcy Records
BusFindUS	Conceal & Carry Weapons Permits
Death Records	Divorce Records
DMI	Email Address Records
Executive Bios	FBN/DBA
FEIN	Healthcare Licenses
Hunting & Fishing Licenses	Lawsuit Records
Liens & Judgments	Marriage Records
New Movers Records	Professional Licenses
Real Property Pre-Foreclosure Records	Stock
UCC Records	Unclaimed Assets
Watercraft Records	

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VOTERS - Use in connection with a non-commercial purpose.
Skip Tracing for Consumer Collections Declaration - Are you using this product for skip tracing related to consumer debt collection? - No

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Possible People Information 2
Person Overview 2
Date of Birth Summary 2
SSN Summary 2
Name Variations 2
Addresses 3
Voter Registrations 4
Phone Numbers 4
Possible Asset Information 4
Real Property Tax Assessor Records 4
Real Property Transactions 5
Possible Adverse Information 5
Lawsuit Records 5
Possible Business & Employment 6
Professional Licenses 6
DMI 6
Full-Text Documents 6
All Full-Text Documents 6
Possible Relatives & Household Members 49
Household Records 49
Possible Named Parties 50
People Associations 50
Business Associations 52
No Documents Found 52
No Documents Were Found In These Sources 52
Permissible Uses and FCRA Disclaimer 52
Permissible Uses 52

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Possible People Information

Person Overview

NANCY G BALDWIN

4250 LAKE CREEK FARMS RD

HEBER CITY, UT 84032-4329 | WASATCH County

Phone Number(s):

505-327-0387

415-875-4500

326-1751

SSN:

005-48-XXXX - issued in ME in 1963-1965

DOB:

05/XX/1947 (Age: 73)

Date of Birth Summary

Date of Birth	Source
05/XX/1947 (Age: 73)	Address Historical #1 | Address Historical #2 | People Household #1 | People Household #2
09/XX/1948 (Age: 71)	People Find | People Historical

SSN Summary

SSN	Source
005-48-XXXX - issued in ME in 1963-1965	People Find | People Historical #1 | People Historical #2 | People Historical #3

Name Variations

Name	Source
BALDWIN NANCY L ET AL	Lawsuit
NANCY L CROFTS	Address Historical #1 | Address Historical #2 | People Historical
NANCY GOUDREAU BALDWIN	Voters Registration
BALDWIN NANCY L	Lawsuit #1 | Lawsuit #2 | Lawsuit #3
NANCY BALDWIN	People Find

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N BALDWIN	People Find
NANCI L BALDWIN	Professional License

Addresses

Address	
4250 LAKE CREEK FARMS RD, HEBER CITY, UT 84032-4329 | WASATCH County	
Reported 01/01/2011 - 01/31/2017	
By People Household 01/01/2011 - 01/31/2017	People Household
By People Find 10/02/2015 - 10/02/2015	People Find
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2
By Real Property Tax Assessor	Real Property Tax Assessor
By Voters Registration	Voters Registration
5730 TEE DR 00000, FARMINGTON, NM 87402-4921 | SAN JUAN County	
Reported 01/01/1998 - 07/31/2013	
By People Household 01/01/1998 - 07/31/2013	People Household
By People Find 11/01/1998 - 11/01/1998	People Find
By Real Property Deeds	Real Property Deeds
By Real Property Tax Assessor	Real Property Tax Assessor #1 | Real Property Tax Assessor #2 | Real Property Tax Assessor #3 | Real Property Tax Assessor #4
8 LONDON CT, CLAYTON, CA 94517-1709 | CONTRA COSTA County	
Reported 01/01/1993 - 01/24/2003	
By People Find 11/13/2000 - 11/13/2000	People Find
By People Historical 01/01/1993 - 12/31/1993	People Historical
550 CALIFORNIA ST, SAN FRANCISCO, CA 94104-1010 | SAN FRANCISCO County	
Reported 05/01/1994 - 01/23/2003	
By People Find 05/01/1994 - 05/01/1994	People Find
1077 NM 170, LA PLATA, NM 87418-9619 | SAN JUAN County	
Reported 07/18/2001 - 01/23/2003	
By People Find 07/18/2001 - 07/18/2001	People Find
1077 HIGHWAY 170, LA PLATA, NM 87418-9619 | SAN JUAN County	
Reported 07/18/2001 - 07/18/2001	
By People Find 07/18/2001 - 07/18/2001	People Find
By Address Historical	Address Historical
1077 NEW MEXICO 170, LA PLATA, NM 87418 | SAN JUAN County	
Reported 01/01/1992 - 12/31/1992	
By People Historical 01/01/1992 - 12/31/1992	People Historical
5905 MEAD LN, FARMINGTON, NM 87402 | SAN JUAN County	
Reported 01/01/1988 - 12/31/1988	

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By People Historical 01/01/1988 - 12/31/1988	People Historical #1 | People Historical #2
749 S POWELL DR, KANAB, UT 84741-6382 | KANE County	
Reported 01/01/1987 - 12/31/1987	
By People Historical 01/01/1987 - 12/31/1987	People Historical
710 S POWEL DR, KANAB, UT 84741 | KANE County	
Reported N/A	
By People Historical	People Historical
6472 ASPEN LOOP RD, KAMAS, UT 84036 | SUMMIT County	
Reported N/A	
By Real Property Tax Assessor	Real Property Tax Assessor
4520 LAKE CREEK FARMS RD, HEBER CITY, UT 84032 | WASATCH County	
Reported N/A	
By Real Property Tax Assessor	Real Property Tax Assessor
721 LACONIA CT, SALT LAKE CITY, UT 84111-3815 | SALT LAKE County	
Reported N/A	
By People Historical	People Historical
74 ROAD 3791, FARMINGTON, NM 87401-1005 | SAN JUAN County	
Reported N/A	
By Real Property Deeds	Real Property Deeds
PO BOX 977, KANAB, UT 84741 | KANE County	
Reported N/A	
By Address Historical	Address Historical #1 | Address Historical #2

Voter Registrations

Political Party	Last Voted Date	Confidence Score	View Full Text
REPUBLICAN		99%	Full-Text

Phone Numbers

Phone	Source
505-327-0387	People Find | People Household
415-875-4500	D&B Market Identifiers (DMI)
326-1751	People Historical

Possible Asset Information

Real Property Tax Assessor Records

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Property Address	Assessed Total Value	Tax Year	Confidence Score	View Full Text
4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329	$333,519.00	2019	99%	Full-Text
6472 ASPEN LOOP RD KAMAS, UT 84036	$344,293.00	2019	98%	Full-Text
		2008	99%	Full-Text
		2008	99%	Full-Text
		2008	99%	Full-Text
		2008	99%	Full-Text

Real Property Transactions

Property Address	Sale Price	Mortgage Amount	Recording Date	Confidence Score	View Full Text
4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329			06/22/2018	99%	Full-Text
4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329	$375,000.00	$300,000.00	03/07/2011	99%	Full-Text
74 ROAD 3791 FARMINGTON, NM 87401				85%	Full-Text
5730 TEE DR FARMINGTON, NM 87402-4921				99%	Full-Text

Possible Adverse Information

Lawsuit Records

Plaintiff	Defendant	Case Type	Confidence Score	View Full Text
HAMILTON SUPPLY COMPANY INC	ALLEN RENEE V ET AL	CIVIL	90%	Full-Text

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Plaintiff	Defendant	Case Type	Confidence Score	View Full Text
AMERICAN INSURANCE COMPANY	BALDWIN ALFRED E	CONTRACT - BREACH	90%	Full-Text
AMERICAN INSURANCE COMPANY	NEW MILLENNIUM HOMES LLC	DECLARATORY RELIEF	90%	Full-Text
OLIN CORPORATION	BALDWIN ALFRED E	CIVIL - UNLIMITED	90%	Full-Text

Possible Business & Employment

Professional Licenses

License Type	License Issue Date	License Expiration Date	Confidence Score	View Full Text
SALES AGENT		12/31/2008	90%	Full-Text

DMI

Business Name	Business Address	Confidence Score	View Full Text
ESURANCE INSURANCE COMPANY	650 DAVIS ST SAN FRANCISCO, CA 94111-1981	65%	Full-Text

Full-Text Documents

All Full-Text Documents

Voter Registrations (1)

To Summary

Voter Registration Record

Source Information

Information Current Through:	01/14/2018
Database Last Updated:	07/25/2018
Update Frequency:	ANNUAL

Demographic Information

Political Party:	REPUBLICAN

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Current Date:	08/12/2020

Name and Personal Information

Name:	NANCY GOUDREAU BALDWIN
Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Home Phone:	435-709-1281

Registration Information

Voter Identification Number:	1715834
Motor Voter Identification Number:	1715834
Registration Date:	03/17/2014

End of Document

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Historical People Records (3)

To Summary

People Historical

Individual Information

Name:	BALDWIN, NANCY G
SSN:	005-48-XXXX
On File Since:	12/01/1984
Phone Number 1:	326-1751

Historical Address Information

Address 1:	1077 NEW MEXICO HY 170 LA PLATA, NM 87418
Address Last Reported:	1992
Address 2:	5905 MEAD RD FARMINGTON, NM 87402
Address Last Reported:	1988
Address 3:	721 LACONIA CT SLC, UT 84111-3815
Address Type:	STREET OR RESIDENTIAL ADDRESS

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To Summary

People Historical

Individual Information

Name:	CROFTS, NANCY L
SSN:	005-48-XXXX
On File Since:	05/01/1986

Historical Address Information

Address 1:	5905 MEAD RD FARMINGTON, NM 87402
Address Last Reported:	1988
Address 2:	749 S POWELL DR KANAB, UT 84741-6382
Address Last Reported:	1987
Address Type:	STREET OR RESIDENTIAL ADDRESS
Address 3:	710 S POWEL DR KANAB, UT 84741

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To Summary

People Historical

Individual Information

Name:	BALDWIN, NANCY G
SSN:	005-48-XXXX
Date of Birth:	09/XX/1948
On File Since:	06/01/1993

Historical Address Information

Address 1:	8 LONDON CT CLAYTON, CA 94517-1709
Address Last Reported:	1993
Address Type:	STREET OR RESIDENTIAL ADDRESS

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Historical Address Records (3)

To Summary

Address Historical

Individual Information

Historical Address Information

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Name:	CROFTS, NANCY L	**Address:**	977 PO BOX KANAB, UT 84741
Date of Birth:	05/XX/1947		

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To Summary

Address Historical

Individual Information

Historical Address Information

Name:	BALDWIN, NANCY G	**Address:**	1077 HIGHWAY 170 LA PLATA, NM 87418

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To Summary

Address Historical

Individual Information

Historical Address Information

Name:	CROFTS, NANCY L	**Address:**	PO BOX 977 KANAB, UT 84741
Date of Birth:	05/XX/1947		

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People Find Records (1)

To Summary

People Finder - Historic Tracker Record

Source Information

Last Known Address Information

Information Current Through:	06/30/2020	**Current Address:**	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Database Last Updated:	07/07/2020	**Phone Number 1:**	505-327-0387
Update Frequency:	MONTHLY	**Address First Reported:**	10/02/2015
Current Date:	08/12/2020		
Source:	TRANS UNION		

Individual Information

Other Address Information

Name:	BALDWIN, NANCY G	**Previous Address:**	550 CALIFORNIA ST

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Also Known As:	BALDWIN, NANCY BALDWIN, N		SAN FRANCISCO, CA 94104-1010
SSN:	005-48-XXXX	**Address First Reported:**	05/01/1994
On File Since:	12/01/1984	**Previous Address:**	5730 TEE DR FARMINGTON, NM 87402-4921
		Address First Reported:	11/01/1998
		Previous Address:	8 LONDON CT CLAYTON, CA 94517-1709
		Address First Reported:	11/13/2000
		Previous Address:	1077 NM 170 LA PLATA, NM 87418-9619
		Address First Reported:	07/18/2001
		Previous Address:	5730 TEE DR FARMINGTON, NM 87402-4921
		Address First Reported:	02/25/2004

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Real Property Tax Assessor Records (6)

To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	BALDWIN RONALD H
	BALDWIN NANCY G
Mailing Address:	5730 TEE DR FARMINGTON, NM 87402-4921
Phone:	505-327-0387

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290000010371
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY
Lot Size:	196891
Lot Acreage:	4.5200
Legal Description:	SMITH M S 17849BSURFACE RIGHTS ONLY

Tax Assessment Information

Tax Year:	2008
Calculated Land Value:	$50,000.00
Calculated Total Value:	$50,000.00
Market Land Value:	$50,000.00
Market Total Value:	$50,000.00
Valuation Method:	MARKET
Tax Amount:	$452.22
Tax Code Area:	101

Building/Improvement Characteristics

Total Area:	196891

Last Market Sale Information

Sale Date:	06/24/1996
Seller Name:	YOUNG ROY & MARGARET
Sale Price:	$112,500.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Number of Parcels:	2

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	BALDWIN RONALD H
	BALDWIN NANCY G
Mailing Address:	5730 TEE DR FARMINGTON, NM 87402-4921
Phone:	505-327-0387

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290150010017
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY
Lot Size:	634669
Lot Acreage:	14.5700
Legal Description:	ASPEN 199 CHLORIDE 411 MAMMOTH 449 MC GREGOR 423 SUSQUEHANNA 447

Tax Assessment Information

Tax Year:	2008
Calculated Land Value:	$10,199.00
Calculated Total Value:	$10,199.00
Market Land Value:	$10,199.00
Market Total Value:	$10,199.00
Valuation Method:	MARKET
Tax Amount:	$92.24
Tax Code Area:	101

Building/Improvement Characteristics

Total Area:	634669

Last Market Sale Information

Sale Date:	03/04/2004
Seller Name:	ASARCO INC
Sale Price:	$10,500.00

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Deed Type:	GRANT DEED
Type of Sale:	RESALE
Number of Parcels:	2
Recording Date:	2004
Document Number:	143298

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	BALDWIN RONALD H
	BALDWIN NANCY G
Mailing Address:	5730 TEE DR FARMINGTON, NM 87402-4921
Phone:	505-327-0387

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290100010049
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY
Lot Size:	449975
Lot Acreage:	10.3300
Legal Description:	LA BOCA 19479

Tax Assessment Information

Tax Year:	2008
Calculated Land Value:	$20,920.00

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Total Value:	$20,920.00
Market Land Value:	$20,920.00
Market Total Value:	$20,920.00
Valuation Method:	MARKET
Tax Amount:	$189.22
Tax Code Area:	101

Building/Improvement Characteristics

Total Area:	449975

Last Market Sale Information

Number of Parcels:	2

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	06/05/2020
Owner Information Current Through:	06/01/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	BALDWIN RONALD H
	BALDWIN NANCY G
Owner Relationship:	HUSBAND/WIFE
Ownership Rights:	JOINT TENANCY
Absentee Owner:	OWNER OCCUPIED
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329

Property Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	WASATCH
Assessor's Parcel Number:	00-0015-2699
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Homestead Exempt:	HOMEOWNER EXEMPTION
Lot Size:	80150
Lot Acreage:	1.8400
Municipality:	TWIN CREEKS COUNTY
Subdivision:	LAKE CREEK FARMS SUB
Legal Description:	LOT #32 LAKE CREEK FARMS SUBDIVISION PLAT A. AREA: 1.8418 ACRES
Lot Number:	32
Range:	05
Township:	04
Section:	11

Tax Assessment Information

Tax Year:	2019
Calculated Land Value:	$265,400.00
Calculated Improvement Value:	$299,762.00
Calculated Total Value:	$565,162.00
Assessed Total Value:	$333,519.00
Market Land Value:	$265,400.00
Market Improvement Value:	$299,762.00
Market Total Value:	$565,162.00
Valuation Method:	MARKET
Tax Amount:	$3,751.76
Tax Code Area:	14

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	20060000
Total Area:	80150

Last Market Sale Information

Sale Date:	03/01/2011
Seller Name:	AURORA LN SVCS LLC
Sale Price:	$375,000.00
Consideration:	ESTIMATED

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Deed Type:	GRANT DEED
Type of Sale:	RESALE
Mortgage Amount:	$300,000.00
Mortgage Loan Type:	CONVENTIONAL
Mortgage Term:	30 YEARS
Mortgage Deed Type:	DEED OF TRUST
Lender Name:	WASHINGTON FED'L SVGS
Recording Date:	03/07/2011
Document Number:	367539
Recording Book/Page:	BOOK 1031, PAGE 1645
Title Company:	PREMIER TITLE INS AGENCY

Previous Transaction Information

Previous Document Number:	278634
Sale Date:	01/05/2005
Sale Price:	$123,690.00
Consideration:	ESTIMATED
Deed Type:	DEED OF TRUST
Type of Sale:	CONSTRUCTION LOAN
Mortgage Amount:	$93,000.00
Number of Parcels:	Y Y
Recording Date:	01/06/2005
Recording Book/Page:	BOOK 730, PAGE 585

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2017
Calculated Land Value:	$185,712.00
Calculated Improvement Value:	$299,762.00
Calculated Total Value:	$485,474.00
Assessed Total Value:	$279,033.00
Assessor's Parcel Number:	00-0015-2699
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	BALDWIN RONALD H, BALDWIN NANCY G
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical Tax Assessor Record: 2.	
Tax Year:	2016
Calculated Land Value:	$175,200.00
Calculated Improvement Value:	$279,750.00
Calculated Total Value:	$454,950.00
Assessed Total Value:	$261,562.00
Assessor's Parcel Number:	00-0015-2699
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	BALDWIN RONALD H, BALDWIN NANCY G
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Historical Tax Assessor Record: 3.	
Tax Year:	2015
Calculated Land Value:	$175,200.00
Calculated Improvement Value:	$279,750.00
Calculated Total Value:	$454,950.00
Assessed Total Value:	$261,562.00
Assessor's Parcel Number:	00-0015-2699
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	BALDWIN RONALD H, BALDWIN NANCY G
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$125,200.00
Calculated Improvement Value:	$279,750.00
Calculated Total Value:	$404,950.00
Assessed Total Value:	$404,950.00
Assessor's Parcel Number:	00-0015-2699
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	BALDWIN RONALD H, BALDWIN NANCY G

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$175,200.00
Calculated Improvement Value:	$279,750.00
Calculated Total Value:	$454,950.00
Assessed Total Value:	$261,562.00
Assessor's Parcel Number:	00-0015-2699
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	BALDWIN RONALD H, BALDWIN NANCY G
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Historical Tax Assessor Record: 6.	
Tax Year:	2013
Calculated Land Value:	$175,200.00
Calculated Improvement Value:	$279,750.00
Calculated Total Value:	$454,950.00
Assessed Total Value:	$454,950.00
Assessor's Parcel Number:	00-0015-2699
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	BALDWIN RONALD H, BALDWIN NANCY G
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	5730 TEE DR FARMINGTON, NM 87402-4921
Historical Tax Assessor Record: 7.	
Tax Year:	2010
Calculated Land Value:	$192,000.00
Calculated Improvement Value:	$337,847.00
Calculated Total Value:	$529,847.00
Assessed Total Value:	$529,847.00
Assessor's Parcel Number:	00-0015-2699

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Owner:	BALDWIN RONALD H, BALDWIN NANCY G
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Historical Tax Assessor Record: 8.	
Tax Year:	2010
Calculated Land Value:	$192,000.00
Calculated Improvement Value:	$337,847.00
Calculated Total Value:	$529,847.00
Assessed Total Value:	$529,847.00
Assessor's Parcel Number:	00-0015-2699
Absentee Owner:	OWNER OCCUPIED
Owner:	BALDWIN RONALD H, BALDWIN NANCY G
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Historical Tax Assessor Record: 9.	
Tax Year:	2009
Calculated Land Value:	$192,000.00
Calculated Improvement Value:	$337,847.00
Calculated Total Value:	$529,847.00
Assessed Total Value:	$529,847.00
Assessor's Parcel Number:	00-0015-2699
Absentee Owner:	SITUS FROM SALE (ABSENTEE)
Owner:	AURORA LN SVCS LLC
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	2617 COLLEGE PARK DR SCOTTSBLUFF, NE 69361

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	BALDWIN RONALD H
	BALDWIN NANCY G
Mailing Address:	5730 TEE DR FARMINGTON, NM 87402-4921
Phone:	505-327-0387

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290190010002
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY
Lot Size:	589802
Lot Acreage:	13.5400
Legal Description:	COOK M S 17848B HECTOR 14327 HECTOR M S 14327B

Tax Assessment Information

Tax Year:	2008
Calculated Land Value:	$183,030.00
Calculated Total Value:	$183,030.00
Market Land Value:	$183,030.00
Market Total Value:	$183,030.00
Valuation Method:	MARKET
Tax Amount:	$1,663.04
Tax Code Area:	101

Building/Improvement Characteristics

Total Area:	589802

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Last Market Sale Information

Sale Date:	06/24/1996
Seller Name:	YOUNG ROY & MARGARET
Sale Price:	$112,500.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Number of Parcels:	2

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	06/05/2020
Owner Information Current Through:	06/01/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	BALDWIN RONALD H
	BALDWIN NANCY G
Ownership Rights:	JOINT TENANCY
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Property Address:	6472 ASPEN LOOP RD KAMAS, UT 84036
Mailing Address:	4520 LAKE CREEK FARMS RD HEBER CITY, UT 84032

Property Information

County:	WASATCH
Assessor's Parcel Number:	00-0000-6788
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	44867

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Lot Acreage:	1.0300
Municipality:	COUNTY OUTSIDE DISTRICT
Subdivision:	DIAMOND BAR X RANCH SUB
Legal Description:	LOT 29 DIAMOND BAR X RANCH SUB NO. 6
Lot Number:	29
Range:	07
Township:	03
Section:	22

Tax Assessment Information

Tax Year:	2019
Calculated Land Value:	$39,150.00
Calculated Improvement Value:	$305,143.00
Calculated Total Value:	$344,293.00
Assessed Land Value:	$39,150.00
Assessed Improvement Value:	$305,143.00
Assessed Total Value:	$344,293.00
Market Land Value:	$39,150.00
Market Improvement Value:	$305,143.00
Market Total Value:	$344,293.00
Valuation Method:	MARKET
Tax Amount:	$3,872.95
Tax Code Area:	12

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	19800000
Total Area:	44867

Last Market Sale Information

Sale Date:	06/21/2018
Seller Name:	PETTIT JOSEPH S & ANN D
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	06/22/2018
Document Number:	453036
Recording Book/Page:	BOOK 1226, PAGE 540
Title Company:	FIRST AMERICAN TITLE INSURANCE

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Previous Transaction Information

Previous Document Number:	405824
Sale Date:	10/29/2014
Sale Price:	$219,150.00
Consideration:	ESTIMATED
Deed Type:	DEED OF TRUST
Type of Sale:	RESALE
Mortgage Amount:	$175,320.00
Number of Parcels:	N N
Recording Date:	10/30/2014
Recording Book/Page:	BOOK 1115, PAGE 1116

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2019
Calculated Land Value:	$39,150.00
Calculated Improvement Value:	$305,143.00
Calculated Total Value:	$344,293.00
Assessed Total Value:	$344,293.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	BARUSCH AMANDA SMITH
Property Address:	6472 ASPEN LOOP RD KAMAS, UT 84036
Mailing Address:	729 N HILLTOP RD SALT LAKE CITY, UT 84103-3311
Historical Tax Assessor Record: 2.	
Tax Year:	2017
Calculated Land Value:	$35,150.00
Calculated Improvement Value:	$188,743.00
Calculated Total Value:	$223,893.00
Assessed Total Value:	$223,893.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Owner:	BALDWIN RONALD H, BALDWIN NANCY G
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	HEBER CITY, UT 84032-4329
Historical Tax Assessor Record: 3.	
Tax Year:	2017
Calculated Land Value:	$35,150.00
Calculated Improvement Value:	$167,278.00
Calculated Total Value:	$202,428.00
Assessed Total Value:	$202,428.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Owner:	BALDWIN RONALD H, BALDWIN NANCY G
Property Address:	6472 E ASPEN LOOP RD KAMAS, UT 84036
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Historical Tax Assessor Record: 4.	
Tax Year:	2016
Calculated Land Value:	$35,150.00
Calculated Improvement Value:	$167,278.00
Calculated Total Value:	$202,428.00
Assessed Total Value:	$202,428.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	PETTIT JOSEPH S, PETTIT ANN D
Property Address:	6472 E ASPEN LOOP RD KAMAS, UT 84036
Mailing Address:	9708 S ALPINE VALLEY CIR SANDY, UT 84092-6050
Historical Tax Assessor Record: 5.	
Tax Year:	2015
Calculated Land Value:	$35,150.00
Calculated Improvement Value:	$167,278.00
Calculated Total Value:	$202,428.00
Assessed Total Value:	$202,428.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	PETTIT JOSEPH S, PETTIT ANN D
Property Address:	6472 E ASPEN LOOP RD KAMAS, UT 84036

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	9708 S ALPINE VALLEY CIR SANDY, UT 84092-6050
Historical Tax Assessor Record: 6.	
Tax Year:	2014
Calculated Land Value:	$35,150.00
Calculated Improvement Value:	$167,278.00
Calculated Total Value:	$202,428.00
Assessed Total Value:	$202,428.00
Assessor's Parcel Number:	00-0000-6788
Owner:	PETTIT JOSEPH S, PETTIT ANN D
Property Address:	6472 E ASPEN LOOP RD KAMAS, UT 84036
Mailing Address:	6708 ALPINE VALLEY CIR SANDY, UT 84092
Historical Tax Assessor Record: 7.	
Tax Year:	2014
Calculated Land Value:	$35,150.00
Calculated Improvement Value:	$167,278.00
Calculated Total Value:	$202,428.00
Assessed Total Value:	$202,428.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	MONSON JEAN C
Property Address:	6472 E ASPEN LOOP RD KAMAS, UT 84036
Mailing Address:	6221 S 320 E SALT LAKE CITY, UT 84107-7459
Historical Tax Assessor Record: 8.	
Tax Year:	2014
Calculated Land Value:	$35,150.00
Calculated Improvement Value:	$167,278.00
Calculated Total Value:	$202,428.00
Assessed Total Value:	$202,428.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	PETTIT JOSEPH S, PETTIT ANN D
Property Address:	6472 E ASPEN LOOP RD KAMAS, UT 84036

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Mailing Address:	9708 S ALPINE VALLEY CIR SANDY, UT 84092-6050
Historical Tax Assessor Record: 9.	
Tax Year:	2013
Calculated Land Value:	$32,150.00
Calculated Improvement Value:	$169,250.00
Calculated Total Value:	$201,400.00
Assessed Total Value:	$201,400.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	MONSON JEAN C
Property Address:	6472 E ASPEN LOOP RD KAMAS, UT 84036
Mailing Address:	6221 S 320 E SALT LAKE CITY, UT 84107-7459
Historical Tax Assessor Record: 10.	
Tax Year:	2010
Calculated Land Value:	$32,150.00
Calculated Improvement Value:	$169,250.00
Calculated Total Value:	$201,400.00
Assessed Total Value:	$201,400.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	MONSON JEAN C
Property Address:	6472 E ASPEN LOOP RD KAMAS, UT 84036
Mailing Address:	6221 S 320 E SALT LAKE CITY, UT 84107-7459
Historical Tax Assessor Record: 11.	
Tax Year:	2009
Calculated Land Value:	$51,800.00
Calculated Improvement Value:	$169,250.00
Calculated Total Value:	$221,050.00
Assessed Total Value:	$221,050.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	MONSON JEAN C
Property Address:	6472 E ASPEN LOOP RD

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	KAMAS, UT 84036
Mailing Address:	6221 S 320 E SALT LAKE CITY, UT 84107-7459

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Real Property Transactions (4)

To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	06/02/2020
County Last Updated:	08/06/2020
Frequency of Update:	MONTHLY
Current Date:	08/12/2020
Source:	COUNTY RECORDER

Owner Information

Owner(s):	RONALD H & NANCY G BALDWIN
Owner Relationship:	HUSBAND AND WIFE
Ownership Rights:	JOINT TENANTS
Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329

Transaction Information

Transaction Date:	06/21/2018
Seller Name:	PETTIT JOSEPH S & ANN D
Deed Type:	GRANT DEED
Document Type:	WARRANTY DEED
Type of Transaction:	RESALE
Recording Date:	06/22/2018
Document Number:	453036
Recording Book/Page:	BOOK 1226, PAGE 540
	FIRST AMERICAN TITLE INSURANCE
Construction Type:	SALE IS A RE-SALE
Purchase Payment:	CASH

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Information

County:	WASATCH
Assessor's Parcel Number:	00-0000-6788
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	2162

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

County Last Updated:	01/21/2015
Frequency of Update:	MONTHLY
Current Date:	08/12/2020
Source:	COUNTY CLERK

Transaction Information

Seller Name:	OWNER RECORD
Deed Type:	GRANT DEED
Document Type:	DEED
Type of Transaction:	RESALE
Recording Book/Page:	BOOK 1373, PAGE 288
Construction Type:	SALE IS A RE-SALE

Owner Information

Owner(s):	RONALD H & NANCY G BALDWIN
Property Address:	74 ROAD 3791 FARMINGTON, NM 87401

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	R5000104

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Property Type:	VACANT
Land Use:	VACANT LAND (NEC)

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Transaction Record

Source Information

County Last Updated:	01/21/2015
Frequency of Update:	MONTHLY
Current Date:	08/12/2020
Source:	COUNTY CLERK

Transaction Information

Seller Name:	OWNER RECORD
Deed Type:	GRANT DEED
Document Type:	DEED
Type of Transaction:	RESALE
Recording Book/Page:	BOOK 1271, PAGE 409
Construction Type:	SALE IS A RE-SALE

Owner Information

Owner(s):	RONALD H & NANCY G BALDWIN
Property Address:	5730 TEE DR FARMINGTON, NM 87402-4921

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	R0032150
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)
Building Square Feet:	2159

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

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TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Real Property Transaction Record

Source Information

Filings Current Through:	06/02/2020
County Last Updated:	08/06/2020
Frequency of Update:	MONTHLY
Current Date:	08/12/2020
Source:	COUNTY RECORDER

Owner Information

Owner(s):	RONALD H & NANCY G BALDWIN
Owner Relationship:	HUSBAND AND WIFE
Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329

Property Information

County:	WASATCH
Assessor's Parcel Number:	00-0015-2699
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE

Transaction Information

Transaction Date:	03/01/2011
Seller Name:	AURORA LN SVCS LLC
Sale Price:	$375,000.00
Consideration:	ESTIMATED
Deed Type:	GRANT DEED
Document Type:	SPECIAL WARRANTY DEED
Type of Transaction:	RESALE
Mortgage Amount:	$300,000.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	30 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	03/03/2011
Mortgage Due Date:	04/01/2041
Lender Name:	WASHINGTON FED'L SVGS
Address:	SALT LAKE CITY, UT 84102
Recording Date:	03/07/2011
Document Number:	367539
Recording Book/Page:	BOOK 1031, PAGE 1645
	PREMIER TITLE INS AGENCY
Construction Type:	SALE IS A RE-SALE
Purchase Payment:	MORTGAGE
Foreclosure Sale:	REO SALE - SALE FROM GOVERNMENT TO PRIVATE PARTY

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	3061

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Lawsuit Records (4)

To Summary

Lawsuit Records

Case Information

Case Number:	337155
Filing Date:	06/27/1980
Case Type:	CIVIL
Filing Office:	ORANGE COUNTY SUPERIOR COURT - CENTRAL
Venue:	ORANGE, CA

Party Information

Plaintiff:	HAMILTON SUPPLY COMPANY INC
Defendant:	ALLEN RENEE V ET AL
Defendant:	ALLEN RICHARD M ET AL
Defendant:	AMMERMAN DOUGLAS K ET AL
Defendant:	AMRSTRONG HEIDI ET AL
Defendant:	ARNEST GREGORY S ET AL
Defendant:	ARNEST HARRIET L ET AL
Defendant:	AROS PENNY H ET AL
Defendant:	BADIU MICHAEL M ET AL
Defendant:	BAGDONAS SAUL C ET AL
Defendant:	BALDWIN BUILDERS ETC ET AL
Defendant:	BALDWIN COMPANY ETC ET AL
Defendant:	BALDWIN JAMES P ET AL
Defendant:	BALDWIN NANCY L ET AL
Defendant:	BALLOU JAN ET AL
Defendant:	BANK OF AMERICA ET AL
Defendant:	BARRY ROBERT D ET AL

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Defendant:	BARTH LARRY ET AL
Defendant:	BARTH MARCIA ET AL
Defendant:	BASARICH JOHN R ET AL
Defendant:	BAYWOOD DEVELOPMENT ETC ET AL
Defendant:	BAYWOOD HOMES ETC ET AL
Defendant:	BAYWOOD HOMES PARTNERSHIP ETC
Defendant:	BELISLE JAMES R ET AL
Defendant:	BELISLE LOUISE D ET AL
Defendant:	BELISLE TERRY A ET AL
Defendant:	BENNETTS HOWARD L ET AL
Defendant:	BENNETTS SARA F ET AL
Defendant:	BEONETT BRUCE T ET AL
Defendant:	BIROZY MARIETTA M ET AL
Defendant:	BLACK CLIFFORD H ET AL
Defendant:	BLACK KATHLEEN L ET AL
Defendant:	BLOCK F PARTNERSHIP ET AL
Defendant:	BONFIGLIO ANN M ET AL
Defendant:	BROWN ARTHUR W ET AL
Defendant:	BUTALA MICHAEL D ET AL
Defendant:	CADDELL BETH V ET AL
Defendant:	CADDELL WAYNE L ET AL
Defendant:	CALIFORNIA FEDERAL SAVINGS & L
Defendant:	CARLILE JANE M ET AL
Defendant:	CARLILE LESTER C ET AL
Defendant:	CARVER GAIL ET AL
Defendant:	CASS MARIE S ET AL
Defendant:	CASS ROBERT M ET AL
Defendant:	CEBALLES LYNN A ET AL
Defendant:	CEBALLES STEVEN C ET AL
Defendant:	CHANG EDWARD ET AL
Defendant:	CHANG ELEANOR ET AL
Defendant:	CHAPMAN CHARLES F ET AL
Defendant:	CHRISTINZIANO ANTONIA ET AL
Defendant:	CHRISTINZIANO SALVATORE ET AL
Defendant:	CHRISTOPHERSON BARBARA A ET AL
Defendant:	CHUNG MINNIE L ET AL
Defendant:	CHUNG RANDALL M ET AL
Defendant:	CLARK MONIKA T ET AL

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Defendant:	CLARK PATRICK C ET AL
Defendant:	CLARK WILLIAM A ET AL
Defendant:	CLEARY ANNE E ET AL
Defendant:	CLIFFORD JAMES T ET AL
Defendant:	CLIFFORD RAE ET AL
Defendant:	COAKLEY NORMAN R ET AL
Defendant:	COAST CONSTRUCTION INC ET AL
Defendant:	COATE ALLEN W ET AL
Defendant:	COATE JOAN M ET AL
Defendant:	COATES BARBARA J ET AL
Defendant:	COLLINS CHERILYN C ET AL
Defendant:	COLLINS MONTE L ET AL
Defendant:	CONFORTI DANETTE M ET AL
Defendant:	CONTINENTAL ILLINOIS BANK ET A
Defendant:	CORK ADELE M ET AL
Defendant:	CORK JAMES A ET AL
Defendant:	COY GAIL F ET AL
Defendant:	DAMEN ROBERT E ET AL
Defendant:	DE ECKERT ELEFRIE ET AL
Defendant:	DE ECKERT HANS ET AL
Defendant:	DE PALW ANITA R ET AL
Defendant:	DE ROSA ANTHONY A ET AL
Defendant:	DHALIWAL BALWINDER ET AL
Defendant:	DIMINO NELMA J ET AL
Defendant:	DIMINO RAYMOND A ET AL
Defendant:	DUTTON RITA L ET AL
Defendant:	EDDY CHARLES C ET AL
Defendant:	EDDY NANCY D ET AL
Defendant:	EDWARDS EUGENE B ET AL
Defendant:	EDWARDS PAMELA ET AL
Defendant:	EHLIS JOSEPH J ET AL
Defendant:	EHLIS ROSEMARY ET AL
Defendant:	ENDSLEY BRUCE T ET AL
Defendant:	ESTRADA LUZ M ET AL
Defendant:	F & W DEVELOPMENT INC ETC ET A
Defendant:	F W DEVELOPMENT INC ETC ET AL
Defendant:	FARMER CORT W ET AL
Defendant:	FARRINGTON INGRID A ET AL

Thomson Reuters. No claim to original U.S. Government Works.

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Defendant:	FARRINGTON RALPH W ET AL
Defendant:	FERGUSON MICHAEL F ET AL
Defendant:	FIGUEROA ELENA ET AL
Defendant:	FIGUEROA ROBERT ET AL
Defendant:	FISCHER GLORIA ET AL
Defendant:	FISCHER ITZHAK ET AL
Defendant:	FORD ROBERT W ET AL
Defendant:	FRACE ROBERT T ET AL
Defendant:	FRANCESOON ROBERT J ET AL
Defendant:	FRYER JAMES D ET AL
Defendant:	GARNER GUY G ET AL
Defendant:	GOMES BEVERLY J ET AL
Defendant:	GOMES DAVID A ET AL
Defendant:	GRANT VIVIAN R ET AL
Defendant:	GREEN JOSEPH L ET AL
Defendant:	GREEN MARILYN G ET AL
Defendant:	GUSTAFSSON ORJAN U ET AL
Defendant:	GYURIANA DAVID ET AL
Defendant:	GYURIANA KIMBERLY ET AL
Defendant:	HALLOCK SCOTT L ET AL
Defendant:	HARKINS MARY E ET AL
Defendant:	HARMON JEANNE ET AL
Defendant:	HARMON KENT ET AL
Defendant:	HARRIS EDNA ET AL
Defendant:	HARRIS ROBERT M ET AL
Defendant:	HART JR CHARLES W ET AL
Defendant:	HART ROSEMARIE S ET AL
Defendant:	HARTMAN BURTON D ET AL
Defendant:	HARTMAN ESTHER K ET AL
Defendant:	HARTTER GARY A ET AL
Defendant:	HASKELL MARK T ET AL
Defendant:	HENRY JR RONALD H ET AL
Defendant:	HILLIS CHERYL S ET AL
Defendant:	HISS JOAN J ET AL
Defendant:	HISS JOHN J ET AL
Defendant:	HO HEDY M ET AL
Defendant:	HO THOMAS C ET AL
Defendant:	HOLLAR THOMAS J ET AL

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Defendant:	HOLLYFED FINANCIAL SERVICES IN
Defendant:	HOLLYWOOD FEDERAL FINANCIAL SE
Defendant:	HOPPE HANS W ET AL
Defendant:	HOPPE ILSE H ET AL
Defendant:	HUGHES LEONARD ET AL
Defendant:	HUMPHREY CHARLES D ET AL
Defendant:	HUMPHREY RITA N ET AL
Defendant:	HUNTLEY JOSEPH ET AL
Defendant:	IGLESIAS GLORIA A ET AL
Defendant:	IGLESIAS VICTOR D ET AL
Defendant:	IM HARRY ET AL
Defendant:	IM PHYLLIS ET AL
Defendant:	JACKSON RICHARD E ET AL
Defendant:	JANS CHRISTINA M ET AL
Defendant:	JANS DENNIS J ET AL
Defendant:	JENSEN DAVID ET AL
Defendant:	JENSEN SHERRI ET AL
Defendant:	JEROME BARBARA L ET AL
Defendant:	JEROME ROBERT D ET AL
Defendant:	JOHNSON CANDICE L ET AL
Defendant:	JOHNSON CARL ET AL
Defendant:	JOHNSON DORINE ET AL
Defendant:	JOHNSON SANDERSON P ET AL
Defendant:	KASHYAP SAUITRI ET AL
Defendant:	KASHYAP SURENDRA N ET AL
Defendant:	KASTNER WAYNE ET AL
Defendant:	KELLER JACK L ET AL
Defendant:	KELLER JENNIFER ET AL
Defendant:	KIPKE ROBERT G ET AL
Defendant:	KNOX VADAH C ET AL
Defendant:	KORDELLA SHIRLEY A ET AL
Defendant:	KORDELLA STANLEY J ET AL
Defendant:	KREIT PETER H ET AL
Defendant:	LAKE CHATEAU HOMEOWNERS ASSOCI
Defendant:	LANE WILLIAM M ET AL
Defendant:	LAS PALMAS ESTATES HOMEOWNERS
Defendant:	LAS PALMAS LTD ET AL
Defendant:	LE VINE DOLORES ET AL

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Defendant:	LENZ RITA L ET AL
Defendant:	LENZ TERRY E ET AL
Defendant:	LEVINE DELORES ET AL
Defendant:	LEVINSON SAM ET AL
Defendant:	LIPKE LINDA M ET AL
Defendant:	LIVINGSTON MARY E ET AL
Defendant:	LIVINGSTON ROBERT G ET AL
Defendant:	LONG ADRIANA ET AL
Defendant:	LUCKETT BARBARA J ET AL
Defendant:	MACKIN MICHAEL G ET AL
Defendant:	MARCOTTE GARY R ET AL
Defendant:	MARCOTTE SUE ANN K ET AL
Defendant:	MC CLATCHEY JEAN ET AL
Defendant:	MC CLURG ELDINE ET AL
Defendant:	MC CORMICK JANNIE A ET AL
Defendant:	MC KENNEY ALBERT L ET AL
Defendant:	MC KENNY JEAN M ET AL
Defendant:	MC QUAID III DANIEL J ET AL
Defendant:	MC QUAID MARJIE W ET AL
Defendant:	MELBURN RICHARD D ET AL
Defendant:	MELBURN ROSEMARY L ET AL
Defendant:	MENDOZA ISABEL L ET AL
Defendant:	MENDOZA LEROY ET AL
Defendant:	MICHAYLO ANDREW W ET AL
Defendant:	MILLER ROBERT E ET AL
Defendant:	MILLWEE LESTER ET AL
Defendant:	MILLWEE TERI L ET AL
Defendant:	MORRISON DOROTHY ET AL
Defendant:	MORRISON JACK ET AL
Defendant:	MORRISON PATRICIA A ET AL
Defendant:	MOSBAUGH RICHARD L ET AL
Defendant:	MOSLER BETTY C ET AL
Defendant:	NEUFELD EVA ET AL
Defendant:	NEUFELD KURT ET AL
Defendant:	OLSON REED L ET AL
Defendant:	OSTLIND MAE ET AL
Defendant:	OWENS DARLENE ET AL
Defendant:	OWENS DENNIS A ET AL

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Defendant:	OWENS IRIS S ET AL
Defendant:	OWENS JOHN T ET AL
Defendant:	PACIFIC FEDERAL SAVINGS AND LO
Defendant:	PACIFIC INSURANCE SERVICE ETC
Defendant:	PARENICKA KATHLEEN J ET AL
Defendant:	PARKER LINDA ET AL
Defendant:	PARKER WILLIAM H ET AL
Defendant:	PAXTON MILDRED E ET AL
Defendant:	PEARSON PHILIP A ET AL
Defendant:	PETRONELLA LIESELOOTE ET AL
Defendant:	PICKARD SYLVIA ET AL
Defendant:	PICKLER BRAD A ET AL
Defendant:	PICKLER PAULA E ET AL
Defendant:	PIKARD DAVID ET AL
Defendant:	PINO ROSEMARY G ET AL
Defendant:	PINO VINCENT S ET AL
Defendant:	POWER LINDA D ET AL
Defendant:	QUADER MARILYN F ET AL
Defendant:	QUADER SHABEER K ET AL
Defendant:	RAMSEY CHARLES ET AL
Defendant:	RIES FLORENCE D ET AL
Defendant:	RIES RICHARD S ET AL
Defendant:	RISTALA JAN T ET AL
Defendant:	ROBERTS RAY ET AL
Defendant:	RUNK RENATE ET AL
Defendant:	SALATA PAUL T ET AL
Defendant:	SALTER DANIEL J ET AL
Defendant:	SALWAY CLARENCE J ET AL
Defendant:	SALWAY LU ANN M ET AL
Defendant:	SANCHEZ LUZ M ET AL
Defendant:	SARKEES FRANK C ET AL
Defendant:	SARKEES JOANNE M ET AL
Defendant:	SCHROEPEL KAROLINA ET AL
Defendant:	SEGLER BRUCE A ET AL
Defendant:	SEGLER JERI S ET AL
Defendant:	SHELDON KATHE ET AL
Defendant:	SHOENFIELD COLLEEN ET AL
Defendant:	SHOENFIELD JOHN ET AL

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Defendant:	SMALL CODY M ET AL
Defendant:	SMITH ARDENK ET AL
Defendant:	SMITH DOROTHY ET AL
Defendant:	SNEED MARILYNN ET AL
Defendant:	SPERBECK GREGORY F ET AL
Defendant:	SPERBECK JANET ET AL
Defendant:	STEIN CHARNA ET AL
Defendant:	STRATE CURTIS N ET AL
Defendant:	STRATE KAY ET AL
Defendant:	SUN CHENG ET AL
Defendant:	SUTHERLAND BERTIE Y ET AL
Defendant:	SUTHERLAND LEE D ET AL
Defendant:	TRAUB JULIA A ET AL
Defendant:	TUCKER DOROTHY M ET AL
Defendant:	ULLRICH CARLA M ET AL
Defendant:	ULLRICH DENNIS L ET AL
Defendant:	UNITED CALIFORNIA BANK ET AL
Defendant:	UPP JAMES W ET AL
Defendant:	UPP MARGARET J ET AL
Defendant:	VANBEEK ROGER L ET AL
Defendant:	VANDEMOORTEL JAMES E ET AL
Defendant:	VEATCH JANET ET AL
Defendant:	VEATCH SHERWIN ET AL
Defendant:	WAGNER GERHARD R ET AL
Defendant:	WARKENTIN GARY L ET AL
Defendant:	WARKENTIN LINDA M ET AL
Defendant:	WEAVER BARBARA ET AL
Defendant:	WHEATLEY EUNICE M ET AL
Defendant:	WHEATLEY JR JAMES N ET AL
Defendant:	WILLARD CARLEEN ET AL
Defendant:	WILLETTS ELIZABETH A ET AL
Defendant:	WILLIARD MICHAEL E ET AL
Defendant:	WONG KEE D ET AL
Defendant:	WRIGHT KATHRYN F ET AL
Defendant:	WURSTER ADELE ET AL
Defendant:	WURSTER FRED E ET AL
Defendant:	YIM YING K ET AL

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Order Documents

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To Summary

Lawsuit Records

Case Information

Case Number:	775025
Filing Date:	02/05/1997
Case Type:	CONTRACT - BREACH
Filing Office:	ORANGE COUNTY SUPERIOR COURT - CENTRAL
Venue:	ORANGE, CA

Party Information

Plaintiff:	AMERICAN INSURANCE COMPANY
Attorney:	GASCOU GEMMILL & THORNTON
Plaintiff:	FIREMANS FUND INSURANCE CO
Attorney:	GASCOU GEMMILL & THORNTON
Defendant:	BALDWIN ALFRED E
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN ALFRED E-GP-CARMEL DE
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN ALFRED E-GP-CARMEL VA
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN ALFRED E-GP-NEW HOME
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN ALFRED E-GP-VILL DEVT
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN ALFRED E-GP-VILL PROP
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN ALFRED E-TRUSTEE
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN BUILDING COMPANY
Attorney:	CORBETT & STEELMAN

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Defendant:	BALDWIN COMM INC-GP-BALD VIST
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN COMMUNITIES INC
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN DEANNE
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN FINANCIAL SERVICES
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN HOLDINGS LIMITED
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN INVESTMENT COMPANY
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN JAMES P
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN JAMES P-GP-VILL DEVT
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN JAMES P-GP-VILLGE PRO
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN JAMES P-TRUSTEE
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN JAMES&ALFRED-CA D
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN JAMES&ALFRED-CA V
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN JAMES&ALFRED-CARM DE
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN JAMES&ALFRED-CARM VA
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN JAMES&ALFRED-NE H
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN JAMES&ALFRED-NEW HOM
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN NANCY L
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN VISTA ASSOCIATES
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN VISTA DEVT CO
Attorney:	CORBETT & STEELMAN

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Defendant:	BALDWIN VISTA INC
Attorney:	CORBETT & STEELMAN
Defendant:	BALDWIN VISTA INC-GP-BALD VIS
Attorney:	CORBETT & STEELMAN
Defendant:	CARMEL DEL MAR APARTMENTS
Attorney:	CORBETT & STEELMAN
Defendant:	CARMEL VALLEY PARTNERS I
Attorney:	CORBETT & STEELMAN
Defendant:	NEW HOME INTERIORS
Attorney:	CORBETT & STEELMAN
Defendant:	OSPREY FINANCIAL SERVICES
Attorney:	CORBETT & STEELMAN
Defendant:	OTAY RANCH LP
Attorney:	CORBETT & STEELMAN
Defendant:	OTAY RANCH PARTNRSHP-SUCCESR
Attorney:	CORBETT & STEELMAN
Defendant:	OTAY VISTA ASSOCIATES
Attorney:	CORBETT & STEELMAN
Defendant:	OXNARD DEVELOPMENT ASSOC
Attorney:	CORBETT & STEELMAN
Defendant:	PACIFIC FIRST ESCROW SVC INC
Attorney:	CORBETT & STEELMAN
Defendant:	SKY COMMNTIES INC-GP-OTAY RAN
Attorney:	CORBETT & STEELMAN
Defendant:	SKY COMMNTIES INC-LTD PRTN-BA
Attorney:	CORBETT & STEELMAN
Defendant:	SKY COMMNTIES INC-LTD PRTN-OX
Attorney:	CORBETT & STEELMAN
Defendant:	SKY COMMUNITIES INC
Attorney:	CORBETT & STEELMAN
Defendant:	SKY VISTA INC & SKY COMM INC
Attorney:	CORBETT & STEELMAN
Defendant:	SKY VISTA INC-GP-BALDW FINANC
Attorney:	CORBETT & STEELMAN
Defendant:	SKY VISTA INC-GP-OTAY RANCH
Attorney:	CORBETT & STEELMAN
Defendant:	SKY VISTA INC-LMTD-PRTN-OXNAR
Attorney:	CORBETT & STEELMAN

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Defendant:	SKY VISTA INC-LP-BALDWIN HOLD
Attorney:	CORBETT & STEELMAN
Defendant:	SKY VISTA INC-LTD PRTN BALDWI
Attorney:	CORBETT & STEELMAN
Defendant:	SKY VISTA INC-SUCC-BALDW VIST
Attorney:	CORBETT & STEELMAN
Defendant:	TR BUILDERS INC
Attorney:	CORBETT & STEELMAN
Defendant:	VILLAGE DEVELOPMENT
Attorney:	CORBETT & STEELMAN
Defendant:	VILLAGE DEVT INC-GP-BALDW BL
Attorney:	CORBETT & STEELMAN
Defendant:	VILLAGE PROPERTIES
Attorney:	CORBETT & STEELMAN
Defendant:	VILLAGE RESALES INC
Attorney:	CORBETT & STEELMAN
Defendant:	WESTBAY CAPITOL INC
Attorney:	CORBETT & STEELMAN

Order Documents

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To Summary

Lawsuit Records

Case Information

Case Number:	785325
Filing Date:	10/10/1997
Case Type:	DECLARATORY RELIEF
Filing Office:	ORANGE COUNTY SUPERIOR COURT - CENTRAL
Venue:	ORANGE, CA

Party Information

Plaintiff:	AMERICAN INSURANCE COMPANY
Attorney:	CORBETT & STEELMAN

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Attorney:	GASCOU GEMMILL & THORNTON
Plaintiff:	FIREMANS FUND INSURANCE CO
Attorney:	CORBETT & STEELMAN
Attorney:	GASCOU GEMMILL & THORNTON
Defendant:	NEW MILLENNIUM HOMES LLC
Attorney:	GIBSON DUNN & CRUTCHER
Attorney:	IRELL & MANELLA
Defendant:	NM HOMES ONE INC
Attorney:	GIBSON DUNN & CRUTCHER
Attorney:	IRELL & MANELLA
Defendant:	NM HOMES TWO INC
Attorney:	GIBSON DUNN & CRUTCHER
Attorney:	IRELL & MANELLA
Other:	A&D BALDWIN TURST - INTERVENOR
Other:	BALDWIN ALFRED E - INTERVENOR
Other:	BALDWIN BUILDING CO - INTERVENOR
Other:	BALDWIN BUILDING CONTRACTORS - INTERVENOR
Other:	BALDWIN COMMUNITIES - INTERVENOR
Other:	BALDWIN DEE A - INTERVENOR
Other:	BALDWIN DEE ANN - INTERVENOR
Other:	BALDWIN FINANCIAL SERVICE - INTERVENOR
Other:	BALDWIN HOLDINGS LTD - INTERVENOR
Other:	BALDWIN INVESTMENT CO - INTERVENOR
Other:	BALDWIN JAMES P - INTERVENOR
Other:	BALDWIN NANCY L - INTERVENOR
Other:	BALDWIN VISTA - INTERVENOR
Other:	BALDWIN VISTA ASSOCIATES - INTERVENOR
Other:	BLADWIN VISTA DEVELOPMENT CO - INTERVENOR
Other:	CARMEL DEL MAR APARTMENTS - INTERVENOR
Other:	CARMEL VALLEY PARTNERS I - INTERVENOR
Other:	CITY OF SAN MARCOS - INTERVENOR
Other:	J&N BALDWIN FAMILY TRUST - INTERVENOR
Other:	MARLIN DEVELOPMENT - INTERVENOR
Other:	NEW HOME INTERIORS - INTERVENOR
Other:	OSPREY FINANCIAL SERVICES - INTERVENOR

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Other:	OXNARD DEVELOPMENT ASSOCIATES - INTERVENOR
Other:	PACIFIC FIRST ESCROW SERVICE - INTERVENOR
Other:	TR BUILDERS - INTERVENOR
Other:	VILLAGE PROPERTIES - INTERVENOR
Other:	VILLAGE RESALES - INTERVENOR
Other:	WESTBAY CAPITAL - INTERVENOR

Order Documents

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To Summary

Lawsuit Records

Case Information

Case Number:	30-2013-00641842-CU-BC-CJC
Filing Date:	04/05/2013
Case Type:	CIVIL - UNLIMITED
Filing Office:	ORANGE COUNTY SUPERIOR COURT - CENTRAL JUSTICE CENTER
Venue:	ORANGE, CA

Party Information

Plaintiff:	OLIN CORPORATION
Defendant:	BALDWIN ALFRED E
Defendant:	BALDWIN BUILDERS
Defendant:	BALDWIN JAMES P
Defendant:	BALDWIN NANCY L
Defendant:	SKY COMMUNITIES INC
Defendant:	SKY VISTA INC
Defendant:	THE OTAY RANCH LP

Order Documents

Call Westlaw CourtExpress at 1-877-DOC-RETR (1-877-362-7387) for on-site manual retrieval of documents related to this or other matters. Additional charges apply.

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Professional Licenses (1)

To Summary

Professional License Record

Source Information

Information Current Through:	07/07/2020
Database Last Updated:	08/03/2020
Update Frequency:	SEMI-ANNUAL
Current Date:	08/12/2020
Source:	UT DIVISION OF REAL ESTATE

Licensing Information

Licensing Agency:	UT DIVISION OF REAL ESTATE
License/Certification Type:	SALES AGENT
License Number:	SA006409885
Expire Date:	12/31/2008
License Status:	EXPIRED
License State:	UT

Name & Professional Information

Name:	NANCI L BALDWIN

Employer Information

Organization:	PERSON

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DMI (1)

To Summary

Decide with Confidence

D&B Market Identifiers

Source Information

Sales Information:

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

D&B Completed Analysis:	07/21/2020
Information Current Through:	07/21/2020
Database Last Updated:	07/21/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Copyright © 2020 by Dun & Bradstreet, Inc.

Annual Sales Revision Date:	06/06/2020
Annual Sales (US):	$419,127 -ESTIMATED
1-Yr-Ago:	$ NOT AVAILABLE
3-Yr-Ago:	$ NOT AVAILABLE
Sales Territory:	U.S.

Company Information

DUNS:	15-653-7776
Name:	ESURANCE INSURANCE COMPANY
Address:	650 DAVIS ST SAN FRANCISCO, CA 94111-1981
County:	SAN FRANCISCO
Telephone:	415-875-4500
Year Started:	2001

Executive(s) Information

1.	**Executive Name:**	JEFF GURIAN
	Executive Title:	PARTNER
2.	**Executive Name:**	GARY C TOLMAN
	Executive Title:	PRESIDENT
3.	**Executive Name:**	CRAIG EDMONDS
	Executive Title:	VICE-PRESIDENT
4.	**Executive Name:**	MARK SIMMONDS
	Executive Title:	MANAGING DIRECTOR
5.	**Executive Name:**	LANCE KAZOR

Employee Information

Employees Total:	1
1-Yr-Ago:	1
3-Yr-Ago:	1
Employees Here:	1 -ACTUAL

Company History/Operations/Relationships & Other Information

This Company's Specifics:	
DUNS:	15-653-7776
MSA Code:	7360
MSA Name:	SAN FRANCISCO, CA
Square Footage:	10000
Occupancy Type:	RENTED
Business Is A:	SUBSIDIARY AND SINGLE LOCATION CORPORATION
Establishment Is:	US OWNED
Parent Company Name:	ESURANCE INSURANCE SVCS INC
Parent Company DUNS Number:	09-519-3236
Ultimate Company Name:	ALLSTATE CORPORATION
Ultimate DUNS Number:	80-389-8469
Latest Update to Record:	05/27/2019

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	Executive Title:	BRANCH MANAGER
6.	**Executive Name:**	EDITH PAGADUAN
	Executive Title:	ACCOUNTANT
7.	**Executive Name:**	MATT SHURSON
	Executive Title:	RECRUITER
8.	**Executive Name:**	JEFF GURIAN
	Executive Title:	MARKETING STAFF
9.	**Executive Name:**	LANCE KAZOR
	Executive Title:	SALES STAFF
10.	**Executive Name:**	NICK TOMPKINS
	Executive Title:	COUNSEL
11.	**Executive Name:**	YANA REZNIK
	Executive Title:	DIRECTOR
12.	**Executive Name:**	LAURA STANDLEY
	Executive Title:	MANAGER
13.	**Executive Name:**	LOWELL HANDSCHU
	Executive Title:	MANAGER
14.	**Executive Name:**	YANA REZNIK
	Executive Title:	MANAGER
15.	**Executive Name:**	JEFF GURIAN
	Executive Title:	MANAGER
16.	**Executive Name:**	JOEY URANA
	Executive Title:	REPRESENTATIVE
17.	**Executive Name:**	CJ TOKPAN
	Executive Title:	SUPERVISOR

Business Description:

Line of Business:	FIRE/CASUALTY INSURANCE CARRIER
Industry Group:	FINANCE, INSURANCE, AND REAL ESTATE

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Primary SIC:	6331 FIRE, MARINE, AND CASUALTY INSURANCE 6331 9902 AUTOMOBILE INSURANCE

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Household Records (2)

To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
County:	WASATCH
Latitude/Longitude:	-111.346995/40.489925
Residence Type:	SINGLE FAMILY DWELLING
Address First Reported:	2011
Reported Occupation:	PROFESSIONAL OR TECHNICAL

Head of Household Information

Head of Household:	MR RONALD H BALDWIN
Gender:	MALE
Date of Birth:	08/XX/1955
Name/Address Confirmed:	05/2017
Marital Status:	MARRIED

Additional Individuals In This Household

Name:	MS NANCY G BALDWIN (Spouse)
Gender:	FEMALE
Date of Birth:	05/XX/1947
Name/Address Confirmed:	01/2017
Marital Status:	MARRIED

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To Summary

People Finder Household-Centric Record

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Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	5730 TEE DR FARMINGTON, NM 87402-4921
County:	SAN JUAN
Latitude/Longitude:	36.78569/-108.135529
Residence Type:	SINGLE FAMILY DWELLING
Address First Reported:	1998
Reported Occupation:	PROFESSIONAL OR TECHNICAL

Head of Household Information

Head of Household:	MR RONALD H BALDWIN
Gender:	MALE
Date of Birth:	02/XX/1953
Name/Address Confirmed:	07/2013
Marital Status:	MARRIED

Additional Individuals In This Household

Name:	MS NANCY G BALDWIN (Spouse)
Gender:	FEMALE
Date of Birth:	05/XX/1947
Name/Address Confirmed:	07/2013
Marital Status:	MARRIED
Name:	MR JACOB J BALDWIN
Gender:	MALE
Date of Birth:	01/XX/1983
Name/Address Confirmed:	03/2012

End of Document

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Possible Relatives & Household Members

Household Records

4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329 | Full-Text

Address First Reported:	2011	**Confidence Score:**	99
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MR RONALD H BALDWIN	Head of Household	08/XX/1955	05/2017

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Name	Role	Date of Birth	Name/Address Confirmed:
MS NANCY G BALDWIN	Spouse	05/XX/1947	01/2017

5730 TEE DR FARMINGTON, NM 87402-4921 | Full-Text

Address First Reported:	1998	Confidence Score:	99
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MR RONALD H BALDWIN	Head of Household	02/XX/1953	07/2013
MS NANCY G BALDWIN	Spouse	05/XX/1947	07/2013
MR JACOB J BALDWIN	Other	01/XX/1983	03/2012

Possible Named Parties

People Associations

ISRAEL VILLARREAL	SARA J PFITZINGER
ANDREW KASPER	EST CHARLES EDDY
STEVEN SWIFT	ANNE E CLEARY
DIANA M FOWLER	EMILY PANOS
STACEY GAUL	ETHAN JAMES
OLGA DAY	JACOB J BALDWIN
MELVIN C VARGAS	ROY K ROBERTS
AMY JENKINS	THOMAS J BOYLE
MIGUEL ROMERO	GUY G GARNER
MARK D PITCHFORD	RONALD H HENRY JR
FLORENCE D RIES	ALEXANDER MISEIRVITCH
KIRBY G JACKSON	RICK MORLEY
CHELSEA ANGLEA	GREGORY F SPERBECK
MARK O LOWEY	JUAN OSUNA
BOBBIE TAPPE	NANCY L BALDWIN
MATTHEW C WOODS	DAVID C KUNZELMAN
BEVERLY S PECK	GLENN L EVANS
DOTTY R FORREST	VICTOR HERRERA
JAMES T CLIFFORD	GLEN OH
JERRY E ROARK	ESTHER K HARTMAN
JEFFREY T LEY	WILLIAM D PEARSE
VICTOR M CABALLERO	KWOK Y YIM
MICHAEL D MCGEE	MARIANA GARAYGORDOBIL

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JANE C BASILE	ALICIA PRIEST
DAVID GRIMM	PHYLLIS E LEININGER
SUSAN C GATENBY	KATHERINE J REZUCHA
TRACY AKRESH	ANNIE CHANG
MONICA T CLARK	JAMES P TRACESKI
THOMAS KINSELLA	BEVERLY J GOMES
LEONARD S PINO	ROBERT D BARRY
NICK PHAM	WILLIAM M WILKINS
MEGAN M HANLEY	BARBARA A TOTO
BRIAN C NYSTUEN	ANNE M BONFIGLIO
STEPHEN BEARD	ALFRED E BALDWIN
CHRISTOPHER E CHAPPELL	DOROTHY RICHARDS
ERIN L ROBERT	RYAN C MARKLE
JAMES A LOBERG	MARTHA RICHARDSON
GREGORY VAUGHAN	LINDA WARKENTIN
TIM AUYOUNG	NEMAN MAZZAWI
LISE LOCKWOOD	MARK R FORSETH
ANNA WERNER	DANIEL S SIEVER
CRAIG S BENNER	HEIDI L SUCHARD
JACQUELINE HASTINGS	BRAD PICKLER
MARK ANTHONY MOLINA	JAROD J JOHNSON
CHRISTINA L MICHINI	BEHYAD GHAVIMI
DOMENICO ARAGONA	GARY J SAKAMOTO
RACHEL E WARD	ARTEMIS GLEN
MARIA ORDONEZ	GEORGE C GELLES
WILLIAM J REARICK JR	DANIELLE PEARSON
KATHRYN LONNQUIST	ALEX MISEIRVITCH
SIMON CHONG	YOUFANG ZHOU
JESSICA R GUZMAN	MEGAN PANTAK
JASON WHITE	MARILYN B LIVINGSTON
SUZANNE P GAMBIN	JENNIFER ENGLISH
CHRISTOPHER J CECERE	JERI S SEGLER
DONA J WOODWARD	RAJIV SHARMA
DENNIS A TURNER	FRED R WURSTER
GINELLE STEPHENSON	KIMBERLY S HOFFMANN
ROBERT M CASS	STELLA C LEE
BRIAN PRENTICE	TOLITHIA KORNWEIBEL
MILDRED M PARAS	MARIA R GARAYGORDOBIL

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KATHERINE M CURLEY	PAYAL PATEL
NANCI BALDWIN	EMELIE A ROAQUIN
JOSEPH E FURIATE	KEVIN REILLY
PATRICIA L MOCCO	LAURA DAMKOEHLER
KRISTEN A CATTON	CARLA ULLRICH
BRENDA ZAHNER	HEATHER L SCHERBA
RYAN MORRISON	GRACE GILLETTE
MONICA T MELENDREZ	STEPHAN BEARD

Business Associations

CB SYSTEMS	OSPREY FINANCIAL SERVICES
GRAND BISTROL	ESURANCE INSURANCE COMPANIES
SYRACUSE UNIV.	NM HOMES ONE, INC
FW DEVELOPMENT LLC	

No Documents Found

No Documents Were Found In These Sources

Aircraft Records	Bankruptcy Records
BusFindUS	Conceal & Carry Weapons Permits
Corporate Records & Business Registrations	Death Records
Divorce Records	Email Address Records
Executive Bios	FBN/DBA
FEIN	Healthcare Licenses
Hunting & Fishing Licenses	Liens & Judgments
Marriage Records	New Movers Records
Political Donors	Real Property Pre-Foreclosure Records
Stock	UCC Records
Unclaimed Assets	Vehicle Registrations
Watercraft Records	

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Skip Tracing for Consumer Collections Declaration - Are you using this product for skip tracing related to consumer debt collection? - No

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Possible People Information 2
Person Overview 2
Date of Birth Summary 2
SSN Summary 2
Name Variations 2
Addresses 2
Email Addresses 4
Voter Registrations 4
Phone Numbers 4
Possible Asset Information 4
Real Property Tax Assessor Records 4
Real Property Transactions 5
Possible Business & Employment 5
Professional Licenses 5
Full-Text Documents 5
All Full-Text Documents 6
Possible Relatives & Household Members 35
Household Records 35
Possible Named Parties 35
People Associations 35
Business Associations 37
No Documents Found 37
No Documents Were Found In These Sources 37
Permissible Uses and FCRA Disclaimer 37
Permissible Uses 37

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Possible People Information

Person Overview

RONALD H BALDWIN

4250 LAKE CREEK FARMS RD

HEBER CITY, UT 84032-4329 | WASATCH County

Phone Number(s):

505-327-0387

SSN:

529-86-XXXX - issued in UT in 1969-1970

DOB:

08/XX/1955 (Age: 64)

Date of Birth Summary

Date of Birth	Source
08/XX/1955 (Age: 64)	People Household #1 | People Household #2
02/1953	People Household

SSN Summary

SSN	Source
529-86-XXXX - issued in UT in 1969-1970	People Find | People Historical #1 | People Historical #2

Name Variations

Name	Source
RONALD BALDWIN	Address Historical #1 | Address Historical #2 | People Find
RONALD HOWARD BALDWIN	Professional License | Voters Registration
RON BALDWIN	People Find
RONALD E BALDWIN	People Find
R BALDWIN	People Find

Addresses

Address
4250 LAKE CREEK FARMS RD, HEBER CITY, UT 84032-4329 | WASATCH County

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Reported 01/01/2011 - 05/31/2017	
By People Household 01/01/2011 - 05/31/2017	People Household
By People Find 04/01/2011 - 04/01/2011	People Find
By Professional License	Professional License
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2
By Real Property Tax Assessor	Real Property Tax Assessor
By Voters Registration	Voters Registration
5730 TEE DR, FARMINGTON, NM 87402-4921 | SAN JUAN County	
Reported 01/01/1998 - 07/31/2013	
By People Household 01/01/1998 - 07/31/2013	People Household
By People Find 12/01/1998 - 12/01/1998	People Find
By Address Historical	Address Historical
By Professional License	Professional License
By Real Property Deeds	Real Property Deeds
By Real Property Tax Assessor	Real Property Tax Assessor #1 | Real Property Tax Assessor #2 | Real Property Tax Assessor #3 | Real Property Tax Assessor #4
1077 NEW MEXICO HW, LA PLATA, NM 87418 | SAN JUAN County	
Reported 11/13/2000 - 11/13/2000	
By People Find 11/13/2000 - 11/13/2000	People Find
550 CALIFORNIA ST, SAN FRANCISCO, CA 94104-1010 | SAN FRANCISCO County	
Reported 12/01/1995 - 12/01/1995	
By People Find 12/01/1995 - 12/01/1995	People Find
8 LONDON CT, CLAYTON, CA 94517-1709 | CONTRA COSTA County	
Reported 01/01/1993 - 12/31/1993	
By People Historical 01/01/1993 - 12/31/1993	People Historical
By People Find 06/01/1993 - 06/01/1993	People Find
1077 NEW MEXICO HY 170, LA PLATA, NM 87418 | SAN JUAN County	
Reported 01/01/1992 - 12/31/1992	
By People Historical 01/01/1992 - 12/31/1992	People Historical #1 | People Historical #2
5905 MEAD RD, FARMINGTON, NM 87402 | SAN JUAN County	
Reported 01/01/1988 - 12/31/1988	
By People Historical 01/01/1988 - 12/31/1988	People Historical
721 LACONIA CT, SALT LAKE CITY, UT 84111-3815 | SALT LAKE County	
Reported N/A	
By People Historical	People Historical
6472 ASPEN LOOP RD, KAMAS, UT 84036 | SUMMIT County	
Reported N/A	
By Real Property Tax Assessor	Real Property Tax Assessor
4520 LAKE CREEK FARMS RD, HEBER CITY, UT 84032 | WASATCH County	

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Reported N/A	
By Real Property Tax Assessor	Real Property Tax Assessor
1077 LA PLATA HWY, FARMINGTON, NM 87401 | SAN JUAN County	
Reported N/A	
By Address Historical	Address Historical
74 ROAD 3791, FARMINGTON, NM 87401-1005 | SAN JUAN County	
Reported N/A	
By Real Property Deeds	Real Property Deeds
FARMINGTON, NM 87402 | SAN JUAN County	
Reported N/A	
By Professional License	Professional License

Email Addresses

Email	Source
RONALD.BALDWIN@AOL.COM	People Email

Voter Registrations

Political Party	Last Voted Date	Confidence Score	View Full Text
REPUBLICAN		99%	Full-Text

Phone Numbers

Phone	Source
505-327-0387	People Find | People Household

Possible Asset Information

Real Property Tax Assessor Records

Property Address	Assessed Total Value	Tax Year	Confidence Score	View Full Text
4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329	$333,519.00	2019	99%	Full-Text
6472 ASPEN LOOP RD KAMAS, UT 84036	$344,293.00	2019	98%	Full-Text
		2008	99%	Full-Text
		2008	99%	Full-Text
		2008	99%	Full-Text

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Property Address	Assessed Total Value	Tax Year	Confidence Score	View Full Text
		2008	99%	Full-Text

Real Property Transactions

Property Address	Sale Price	Mortgage Amount	Recording Date	Confidence Score	View Full Text
4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329			06/22/2018	99%	Full-Text
4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329	$375,000.00	$300,000.00	03/07/2011	99%	Full-Text
5730 TEE DR FARMINGTON, NM 87402-4921				99%	Full-Text
74 ROAD 3791 FARMINGTON, NM 87401				85%	Full-Text

Possible Business & Employment

Professional Licenses

License Type	License Issue Date	License Expiration Date	Confidence Score	View Full Text
PROFESSIONAL ENGINEER	10/19/2005	10/31/2015	99%	Full-Text
PROFESSIONAL ENGINEER	02/13/1991	12/31/2009	99%	Full-Text
ENGINEER IN TRAINING - OBSOLETE	04/17/1982	12/31/1999	96%	Full-Text
PROFESSIONAL ENGINEER			90%	Full-Text
PROFESSIONAL ENGINEER			90%	Full-Text

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Full-Text Documents

All Full-Text Documents

Voter Registrations (1)

To Summary

Voter Registration Record

Source Information

Information Current Through:	01/14/2018
Database Last Updated:	07/25/2018
Update Frequency:	ANNUAL
Current Date:	08/12/2020

Demographic Information

Political Party:	REPUBLICAN

Name and Personal Information

Name:	RONALD HOWARD BALDWIN
Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329

Registration Information

Voter Identification Number:	1716045
Motor Voter Identification Number:	1716045
Registration Date:	03/18/2014

End of Document

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Historical People Records (2)

To Summary

People Historical

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Individual Information

Name:	BALDWIN, RONALD H
SSN:	529-86-XXXX
On File Since:	06/01/1993

Additional Information

On File Since:	12/01/1984

Historical Address Information

Address 1:	8 LONDON CT CLAYTON, CA 94517-1709
Address Last Reported:	1993
Address Type:	STREET OR RESIDENTIAL ADDRESS
Address 2:	1077 NEW MEXICO HY 170 LA PLATA, NM 87418

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To Summary

People Historical

Individual Information

Name:	BALDWIN, RONALD H
SSN:	529-86-XXXX
On File Since:	12/01/1984

Historical Address Information

Address 1:	1077 NEW MEXICO HY 170 LA PLATA, NM 87418
Address Last Reported:	1992
Address 2:	5905 MEAD RD FARMINGTON, NM 87402
Address Last Reported:	1988
Address 3:	721 LACONIA CT SLC, UT 84111-3815
Address Type:	STREET OR RESIDENTIAL ADDRESS

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Historical Address Records (2)

To Summary

Address Historical

Individual Information

Historical Address Information

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Name:	BALDWIN, RONALD	**Address:**	5730 TEE DR FARMINGTON, NM 87402-4921

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To Summary

Address Historical

Individual Information

Name:	BALDWIN, RONALD

Historical Address Information

Address:	1077 LA PLATA HWY FARMINGTON, NM 87401

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People Find Records (1)

To Summary

People Finder - Historic Tracker Record

Source Information

Information Current Through:	06/30/2020
Database Last Updated:	07/07/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	TRANS UNION

Last Known Address Information

Current Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Phone Number 1:	505-327-0387
Address First Reported:	04/01/2011

Individual Information

Name:	BALDWIN, RONALD H
Also Known As:	BALDWIN, RON BALDWIN, RONALD BALDWIN, R BALDWIN, RONALD E
SSN:	529-86-XXXX
On File Since:	12/01/1984

Other Address Information

Previous Address:	8 LONDON CT CLAYTON, CA 94517-1709
Address First Reported:	06/01/1993
Previous Address:	550 CALIFORNIA ST SAN FRANCISCO, CA 94104-1010
Address First Reported:	12/01/1995
Previous Address:	5730 TEE DR

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	FARMINGTON, NM 87402-4921
Address First Reported:	12/01/1998
Previous Address:	1077 NEW MEXICO HW 170 LA PLATA, NM 87418
Address First Reported:	11/13/2000

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Email Address Records (1)

To Summary

People Email Record

Source Information

Information Current Through:	07/31/2020
Database Last Updated:	08/03/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020

Individual Information

Name:	RONALD BALDWIN
E-Mail:	RONALD.BALDWIN@AOL.COM
IP Address:	62.128.189.192
Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032
Phone #1:	505-327-0387
Phone #1:	505-327-0387
Phone #1:	770-392-7400

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Real Property Tax Assessor Records (6)

To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	06/05/2020
Owner Information Current Through:	06/01/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Owner(s):	BALDWIN RONALD H
	BALDWIN NANCY G
Owner Relationship:	HUSBAND/WIFE
Ownership Rights:	JOINT TENANCY
Absentee Owner:	OWNER OCCUPIED
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329

Property Information

County:	WASATCH
Assessor's Parcel Number:	00-0015-2699
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Homestead Exempt:	HOMEOWNER EXEMPTION
Lot Size:	80150
Lot Acreage:	1.8400
Municipality:	TWIN CREEKS COUNTY
Subdivision:	LAKE CREEK FARMS SUB
Legal Description:	LOT #32 LAKE CREEK FARMS SUBDIVISION PLAT A. AREA: 1.8418 ACRES
Lot Number:	32
Range:	05
Township:	04
Section:	11

Tax Assessment Information

Tax Year:	2019
Calculated Land Value:	$265,400.00
Calculated Improvement Value:	$299,762.00
Calculated Total Value:	$565,162.00
Assessed Total Value:	$333,519.00
Market Land Value:	$265,400.00
Market Improvement Value:	$299,762.00
Market Total Value:	$565,162.00
Valuation Method:	MARKET
Tax Amount:	$3,751.76
Tax Code Area:	14

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Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	20060000
Total Area:	80150

Last Market Sale Information

Sale Date:	03/01/2011
Seller Name:	AURORA LN SVCS LLC
Sale Price:	$375,000.00
Consideration:	ESTIMATED
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Mortgage Amount:	$300,000.00
Mortgage Loan Type:	CONVENTIONAL
Mortgage Term:	30 YEARS
Mortgage Deed Type:	DEED OF TRUST
Lender Name:	WASHINGTON FED'L SVGS
Recording Date:	03/07/2011
Document Number:	367539
Recording Book/Page:	BOOK 1031, PAGE 1645
Title Company:	PREMIER TITLE INS AGENCY

Previous Transaction Information

Previous Document Number:	278634
Sale Date:	01/05/2005
Sale Price:	$123,690.00
Consideration:	ESTIMATED
Deed Type:	DEED OF TRUST
Type of Sale:	CONSTRUCTION LOAN
Mortgage Amount:	$93,000.00
Number of Parcels:	Y Y
Recording Date:	01/06/2005
Recording Book/Page:	BOOK 730, PAGE 585

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2017
Calculated Land Value:	$185,712.00

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Calculated Improvement Value:	$299,762.00
Calculated Total Value:	$485,474.00
Assessed Total Value:	$279,033.00
Assessor's Parcel Number:	00-0015-2699
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	BALDWIN RONALD H, BALDWIN NANCY G
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Historical Tax Assessor Record: 2.	
Tax Year:	2016
Calculated Land Value:	$175,200.00
Calculated Improvement Value:	$279,750.00
Calculated Total Value:	$454,950.00
Assessed Total Value:	$261,562.00
Assessor's Parcel Number:	00-0015-2699
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	BALDWIN RONALD H, BALDWIN NANCY G
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Historical Tax Assessor Record: 3.	
Tax Year:	2015
Calculated Land Value:	$175,200.00
Calculated Improvement Value:	$279,750.00
Calculated Total Value:	$454,950.00
Assessed Total Value:	$261,562.00
Assessor's Parcel Number:	00-0015-2699
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	BALDWIN RONALD H, BALDWIN NANCY G
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD

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	HEBER CITY, UT 84032-4329
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$125,200.00
Calculated Improvement Value:	$279,750.00
Calculated Total Value:	$404,950.00
Assessed Total Value:	$404,950.00
Assessor's Parcel Number:	00-0015-2699
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	BALDWIN RONALD H, BALDWIN NANCY G
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$175,200.00
Calculated Improvement Value:	$279,750.00
Calculated Total Value:	$454,950.00
Assessed Total Value:	$261,562.00
Assessor's Parcel Number:	00-0015-2699
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	BALDWIN RONALD H, BALDWIN NANCY G
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Historical Tax Assessor Record: 6.	
Tax Year:	2013
Calculated Land Value:	$175,200.00
Calculated Improvement Value:	$279,750.00
Calculated Total Value:	$454,950.00
Assessed Total Value:	$454,950.00
Assessor's Parcel Number:	00-0015-2699
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	BALDWIN RONALD H, BALDWIN NANCY G

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	5730 TEE DR FARMINGTON, NM 87402-4921
Historical Tax Assessor Record: 7.	
Tax Year:	2010
Calculated Land Value:	$192,000.00
Calculated Improvement Value:	$337,847.00
Calculated Total Value:	$529,847.00
Assessed Total Value:	$529,847.00
Assessor's Parcel Number:	00-0015-2699
Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Owner:	BALDWIN RONALD H, BALDWIN NANCY G
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Historical Tax Assessor Record: 8.	
Tax Year:	2010
Calculated Land Value:	$192,000.00
Calculated Improvement Value:	$337,847.00
Calculated Total Value:	$529,847.00
Assessed Total Value:	$529,847.00
Assessor's Parcel Number:	00-0015-2699
Absentee Owner:	OWNER OCCUPIED
Owner:	BALDWIN RONALD H, BALDWIN NANCY G
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Historical Tax Assessor Record: 9.	
Tax Year:	2009
Calculated Land Value:	$192,000.00
Calculated Improvement Value:	$337,847.00
Calculated Total Value:	$529,847.00
Assessed Total Value:	$529,847.00
Assessor's Parcel Number:	00-0015-2699
Absentee Owner:	SITUS FROM SALE (ABSENTEE)

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Owner:	AURORA LN SVCS LLC
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	2617 COLLEGE PARK DR SCOTTSBLUFF, NE 69361

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	BALDWIN RONALD H
	BALDWIN NANCY G
Mailing Address:	5730 TEE DR FARMINGTON, NM 87402-4921
Phone:	505-327-0387

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290000010371
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY
Lot Size:	196891
Lot Acreage:	4.5200
Legal Description:	SMITH M S 17849BSURFACE RIGHTS ONLY

Tax Assessment Information

Tax Year:	2008
Calculated Land Value:	$50,000.00

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Total Value:	$50,000.00
Market Land Value:	$50,000.00
Market Total Value:	$50,000.00
Valuation Method:	MARKET
Tax Amount:	$452.22
Tax Code Area:	101

Building/Improvement Characteristics

Total Area:	196891

Last Market Sale Information

Sale Date:	06/24/1996
Seller Name:	YOUNG ROY & MARGARET
Sale Price:	$112,500.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Number of Parcels:	2

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	BALDWIN RONALD H
	BALDWIN NANCY G
Mailing Address:	5730 TEE DR FARMINGTON, NM 87402-4921
Phone:	505-327-0387

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290190010002
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY
Lot Size:	589802
Lot Acreage:	13.5400
Legal Description:	COOK M S 17848B HECTOR 14327 HECTOR M S 14327B

Tax Assessment Information

Tax Year:	2008
Calculated Land Value:	$183,030.00
Calculated Total Value:	$183,030.00
Market Land Value:	$183,030.00
Market Total Value:	$183,030.00
Valuation Method:	MARKET
Tax Amount:	$1,663.04
Tax Code Area:	101

Building/Improvement Characteristics

Total Area:	589802

Last Market Sale Information

Sale Date:	06/24/1996
Seller Name:	YOUNG ROY & MARGARET
Sale Price:	$112,500.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Number of Parcels:	2

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Real Property Tax Assessor Record

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Source Information

Tax Roll Certification Date:	06/05/2020
Owner Information Current Through:	06/01/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	BALDWIN RONALD H
	BALDWIN NANCY G
Ownership Rights:	JOINT TENANCY
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Property Address:	6472 ASPEN LOOP RD KAMAS, UT 84036
Mailing Address:	4520 LAKE CREEK FARMS RD HEBER CITY, UT 84032

Property Information

County:	WASATCH
Assessor's Parcel Number:	00-0000-6788
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	44867
Lot Acreage:	1.0300
Municipality:	COUNTY OUTSIDE DISTRICT
Subdivision:	DIAMOND BAR X RANCH SUB
Legal Description:	LOT 29 DIAMOND BAR X RANCH SUB NO. 6
Lot Number:	29
Range:	07
Township:	03
Section:	22

Tax Assessment Information

Tax Year:	2019
Calculated Land Value:	$39,150.00
Calculated Improvement Value:	$305,143.00
Calculated Total Value:	$344,293.00
Assessed Land Value:	$39,150.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Assessed Improvement Value:	$305,143.00
Assessed Total Value:	$344,293.00
Market Land Value:	$39,150.00
Market Improvement Value:	$305,143.00
Market Total Value:	$344,293.00
Valuation Method:	MARKET
Tax Amount:	$3,872.95
Tax Code Area:	12

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	19800000
Total Area:	44867

Last Market Sale Information

Sale Date:	06/21/2018
Seller Name:	PETTIT JOSEPH S & ANN D
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	06/22/2018
Document Number:	453036
Recording Book/Page:	BOOK 1226, PAGE 540
Title Company:	FIRST AMERICAN TITLE INSURANCE

Previous Transaction Information

Previous Document Number:	405824
Sale Date:	10/29/2014
Sale Price:	$219,150.00
Consideration:	ESTIMATED
Deed Type:	DEED OF TRUST
Type of Sale:	RESALE
Mortgage Amount:	$175,320.00
Number of Parcels:	N N
Recording Date:	10/30/2014
Recording Book/Page:	BOOK 1115, PAGE 1116

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2019

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Land Value:	$39,150.00
Calculated Improvement Value:	$305,143.00
Calculated Total Value:	$344,293.00
Assessed Total Value:	$344,293.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	BARUSCH AMANDA SMITH
Property Address:	6472 ASPEN LOOP RD KAMAS, UT 84036
Mailing Address:	729 N HILLTOP RD SALT LAKE CITY, UT 84103-3311
Historical Tax Assessor Record: 2.	
Tax Year:	2017
Calculated Land Value:	$35,150.00
Calculated Improvement Value:	$188,743.00
Calculated Total Value:	$223,893.00
Assessed Total Value:	$223,893.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Owner:	BALDWIN RONALD H, BALDWIN NANCY G
Property Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
Historical Tax Assessor Record: 3.	
Tax Year:	2017
Calculated Land Value:	$35,150.00
Calculated Improvement Value:	$167,278.00
Calculated Total Value:	$202,428.00
Assessed Total Value:	$202,428.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Owner:	BALDWIN RONALD H, BALDWIN NANCY G
Property Address:	6472 E ASPEN LOOP RD KAMAS, UT 84036
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical Tax Assessor Record: 4.	
Tax Year:	2016
Calculated Land Value:	$35,150.00
Calculated Improvement Value:	$167,278.00
Calculated Total Value:	$202,428.00
Assessed Total Value:	$202,428.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	PETTIT JOSEPH S, PETTIT ANN D
Property Address:	6472 E ASPEN LOOP RD KAMAS, UT 84036
Mailing Address:	9708 S ALPINE VALLEY CIR SANDY, UT 84092-6050
Historical Tax Assessor Record: 5.	
Tax Year:	2015
Calculated Land Value:	$35,150.00
Calculated Improvement Value:	$167,278.00
Calculated Total Value:	$202,428.00
Assessed Total Value:	$202,428.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	PETTIT JOSEPH S, PETTIT ANN D
Property Address:	6472 E ASPEN LOOP RD KAMAS, UT 84036
Mailing Address:	9708 S ALPINE VALLEY CIR SANDY, UT 84092-6050
Historical Tax Assessor Record: 6.	
Tax Year:	2014
Calculated Land Value:	$35,150.00
Calculated Improvement Value:	$167,278.00
Calculated Total Value:	$202,428.00
Assessed Total Value:	$202,428.00
Assessor's Parcel Number:	00-0000-6788
Owner:	PETTIT JOSEPH S, PETTIT ANN D
Property Address:	6472 E ASPEN LOOP RD KAMAS, UT 84036
Mailing Address:	6708 ALPINE VALLEY CIR SANDY, UT 84092

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Historical Tax Assessor Record: 7.	
Tax Year:	2014
Calculated Land Value:	$35,150.00
Calculated Improvement Value:	$167,278.00
Calculated Total Value:	$202,428.00
Assessed Total Value:	$202,428.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	MONSON JEAN C
Property Address:	6472 E ASPEN LOOP RD KAMAS, UT 84036
Mailing Address:	6221 S 320 E SALT LAKE CITY, UT 84107-7459
Historical Tax Assessor Record: 8.	
Tax Year:	2014
Calculated Land Value:	$35,150.00
Calculated Improvement Value:	$167,278.00
Calculated Total Value:	$202,428.00
Assessed Total Value:	$202,428.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	PETTIT JOSEPH S, PETTIT ANN D
Property Address:	6472 E ASPEN LOOP RD KAMAS, UT 84036
Mailing Address:	9708 S ALPINE VALLEY CIR SANDY, UT 84092-6050
Historical Tax Assessor Record: 9.	
Tax Year:	2013
Calculated Land Value:	$32,150.00
Calculated Improvement Value:	$169,250.00
Calculated Total Value:	$201,400.00
Assessed Total Value:	$201,400.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	MONSON JEAN C
Property Address:	6472 E ASPEN LOOP RD KAMAS, UT 84036
Mailing Address:	6221 S 320 E

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	SALT LAKE CITY, UT 84107-7459
Historical Tax Assessor Record: 10.	
Tax Year:	2010
Calculated Land Value:	$32,150.00
Calculated Improvement Value:	$169,250.00
Calculated Total Value:	$201,400.00
Assessed Total Value:	$201,400.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	MONSON JEAN C
Property Address:	6472 E ASPEN LOOP RD KAMAS, UT 84036
Mailing Address:	6221 S 320 E SALT LAKE CITY, UT 84107-7459
Historical Tax Assessor Record: 11.	
Tax Year:	2009
Calculated Land Value:	$51,800.00
Calculated Improvement Value:	$169,250.00
Calculated Total Value:	$221,050.00
Assessed Total Value:	$221,050.00
Assessor's Parcel Number:	00-0000-6788
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	MONSON JEAN C
Property Address:	6472 E ASPEN LOOP RD KAMAS, UT 84036
Mailing Address:	6221 S 320 E SALT LAKE CITY, UT 84107-7459

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	BALDWIN RONALD H
	BALDWIN NANCY G
Mailing Address:	5730 TEE DR FARMINGTON, NM 87402-4921
Phone:	505-327-0387

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290150010017
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY
Lot Size:	634669
Lot Acreage:	14.5700
Legal Description:	ASPEN 199 CHLORIDE 411 MAMMOTH 449 MC GREGOR 423 SUSQUEHANNA 447

Tax Assessment Information

Tax Year:	2008
Calculated Land Value:	$10,199.00
Calculated Total Value:	$10,199.00
Market Land Value:	$10,199.00
Market Total Value:	$10,199.00
Valuation Method:	MARKET
Tax Amount:	$92.24
Tax Code Area:	101

Building/Improvement Characteristics

Total Area:	634669

Last Market Sale Information

Sale Date:	03/04/2004
Seller Name:	ASARCO INC
Sale Price:	$10,500.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE

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Number of Parcels:	2
Recording Date:	2004
Document Number:	143298

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	BALDWIN RONALD H
	BALDWIN NANCY G
Mailing Address:	5730 TEE DR FARMINGTON, NM 87402-4921
Phone:	505-327-0387

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290100010049
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY
Lot Size:	449975
Lot Acreage:	10.3300
Legal Description:	LA BOCA 19479

Tax Assessment Information

Tax Year:	2008
Calculated Land Value:	$20,920.00
Calculated Total Value:	$20,920.00
Market Land Value:	$20,920.00

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Market Total Value:	$20,920.00
Valuation Method:	MARKET
Tax Amount:	$189.22
Tax Code Area:	101

Building/Improvement Characteristics

Total Area:	449975

Last Market Sale Information

Number of Parcels:	2

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Real Property Transactions (4)

To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	06/02/2020
County Last Updated:	08/06/2020
Frequency of Update:	MONTHLY
Current Date:	08/12/2020
Source:	COUNTY RECORDER

Owner Information

Owner(s):	RONALD H & NANCY G BALDWIN
Owner Relationship:	HUSBAND AND WIFE
Ownership Rights:	JOINT TENANTS
Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Property Address:	4250 LAKE CREEK FARMS RD

Transaction Information

Transaction Date:	06/21/2018
Seller Name:	PETTIT JOSEPH S & ANN D
Deed Type:	GRANT DEED
Document Type:	WARRANTY DEED
Type of Transaction:	RESALE
Recording Date:	06/22/2018
Document Number:	453036
Recording Book/Page:	BOOK 1226, PAGE 540
	FIRST AMERICAN TITLE INSURANCE
Construction Type:	SALE IS A RE-SALE
Purchase Payment:	CASH

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329

Property Information

County:	WASATCH
Assessor's Parcel Number:	00-0000-6788
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	2162

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Transaction Record

Source Information

County Last Updated:	01/21/2015
Frequency of Update:	MONTHLY
Current Date:	08/12/2020
Source:	COUNTY CLERK

Transaction Information

Seller Name:	OWNER RECORD
Deed Type:	GRANT DEED
Document Type:	DEED
Type of Transaction:	RESALE
Recording Book/Page:	BOOK 1271, PAGE 409
Construction Type:	SALE IS A RE-SALE

Owner Information

Owner(s):	RONALD H & NANCY G BALDWIN
Property Address:	5730 TEE DR

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	FARMINGTON, NM 87402-4921

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	R0032150
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)
Building Square Feet:	2159

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary
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Real Property Transaction Record

Source Information

Filings Current Through:	06/02/2020
County Last Updated:	08/06/2020
Frequency of Update:	MONTHLY
Current Date:	08/12/2020
Source:	COUNTY RECORDER

Owner Information

Owner(s):	RONALD H & NANCY G BALDWIN
Owner Relationship:	HUSBAND AND WIFE
Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Property Address:	4250 LAKE CREEK FARMS RD

Transaction Information

Transaction Date:	03/01/2011
Seller Name:	AURORA LN SVCS LLC
Sale Price:	$375,000.00
Consideration:	ESTIMATED
Deed Type:	GRANT DEED
Document Type:	SPECIAL WARRANTY DEED
Type of Transaction:	RESALE
Mortgage Amount:	$300,000.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	30 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	03/03/2011
Mortgage Due Date:	04/01/2041

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	HEBER CITY, UT 84032-4329
Mailing Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329

Lender Name:	WASHINGTON FED'L SVGS
Address:	SALT LAKE CITY, UT 84102
Recording Date:	03/07/2011
Document Number:	367539
Recording Book/Page:	BOOK 1031, PAGE 1645
	PREMIER TITLE INS AGENCY

Property Information

County:	WASATCH
Assessor's Parcel Number:	00-0015-2699
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	3061

Construction Type:	SALE IS A RE-SALE
Purchase Payment:	MORTGAGE
Foreclosure Sale:	REO SALE - SALE FROM GOVERNMENT TO PRIVATE PARTY

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

End of Document

To Summary

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Real Property Transaction Record

Source Information

County Last Updated:	01/21/2015
Frequency of Update:	MONTHLY
Current Date:	08/12/2020
Source:	COUNTY CLERK

Transaction Information

Seller Name:	OWNER RECORD
Deed Type:	GRANT DEED
Document Type:	DEED
Type of Transaction:	RESALE
Recording Book/Page:	BOOK 1373, PAGE 288
Construction Type:	SALE IS A RE-SALE

Owner Information

Owner(s):	RONALD H & NANCY G BALDWIN
Property Address:	74 ROAD 3791

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	FARMINGTON, NM 87401

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	R5000104
Property Type:	VACANT
Land Use:	VACANT LAND (NEC)

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Professional Licenses (5)

To Summary

Professional License Record

Source Information

Information Current Through:	01/25/2019
Database Last Updated:	02/26/2019
Update Frequency:	SEMI-ANNUAL
Current Date:	08/12/2020
Source:	NM BD. OF LICENSURE FOR PROF'L ENGINEERS AND SURVEYORS

Licensing Information

Licensing Agency:	NM STATE BOARD OF LICENSURE FOR PE/LS
License/Certification Type:	PROFESSIONAL ENGINEER
License Number:	11405
Issue Date:	02/13/1991
Expire Date:	12/31/2009
License Class:	MINING
License State:	NM

Name & Professional Information

Name:	RONALD H BALDWIN
Address:	5730 TEE DR FARMINGTON, NM 87402

Employer Information

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Organization:	PERSON

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To Summary

Professional License Record

Source Information

Information Current Through:	06/26/2020
Database Last Updated:	08/03/2020
Update Frequency:	QUARTERLY
Current Date:	08/12/2020
Source:	CO DEPARTMENT OF REGULATORY AGENCIES

Licensing Information

Licensing Agency:	CO DEPARTMENT OF REGULATORY AGENCIES
License/Certification Type:	PROFESSIONAL ENGINEER
License Number:	39576
Issue Date:	10/19/2005
Expire Date:	10/31/2015
License Status:	EXPIRED
Specialty:	METALLURGICAL AND MATERIALS
Renewal Date:	11/01/2013
License State:	CO

Name & Professional Information

Name:	RONALD HOWARD BALDWIN
Address:	4250 EAST LAKE CREEK FARMS ROAD HEBER CITY, UT 84032-4032

Employer Information

Organization:	PERSON

End of Document

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To Summary

Professional License Record

Source Information

Information Current Through:	11/17/2017
Database Last Updated:	04/05/2018
Update Frequency:	SEMI-ANNUAL

Licensing Information

Licensing Agency:	NM REGULATION & LICENSING DEPARTMENT

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Current Date:	08/12/2020
Source:	NM REGULATION AND LICENSING DEPARTMENT

License/Certification Type:	PROFESSIONAL ENGINEER
License Number:	11405
License Status:	LAPSED
Specialty:	ENGINEERS & SURVEYORS
License State:	NM

Name & Professional Information

Name:	RONALD H BALDWIN

Employer Information

Organization:	PERSON

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To Summary

Professional License Record

Source Information

Information Current Through:	12/20/2018
Database Last Updated:	01/04/2019
Update Frequency:	SEMI-ANNUAL
Current Date:	08/12/2020
Source:	UT DEPT. OF COMMERCE (ENGINEERS)

Licensing Information

Licensing Agency:	UT GOVERNMENT
License/Certification Type:	ENGINEER IN TRAINING - OBSOLETE
License Number:	165233-9925
Issue Date:	04/17/1982
Expire Date:	12/31/1999
License Status:	EXPIRED
Specialty:	ENGINEER/LAND SURVEYOR
License State:	UT

Name & Professional Information

Name:	RONALD H BALDWIN
	FARMINGTON, NM 87402
County:	SAN JUAN

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To Summary

Professional License Record

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Source Information

Information Current Through:	11/17/2017
Database Last Updated:	04/05/2018
Update Frequency:	SEMI-ANNUAL
Current Date:	08/12/2020
Source:	NM REGULATION AND LICENSING DEPARTMENT

Licensing Information

Licensing Agency:	NM REGULATION & LICENSING DEPARTMENT
License/Certification Type:	PROFESSIONAL ENGINEER
License Number:	6534
License Status:	RETIRED
Specialty:	ENGINEERS & SURVEYORS
License State:	NM

Name & Professional Information

Name:	RONALD H BALDWIN

Employer Information

Organization:	PERSON

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Household Records (2)

To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329
County:	WASATCH
Latitude/Longitude:	-111.346995/40.489925
Residence Type:	SINGLE FAMILY DWELLING
Address First Reported:	2011
Reported Occupation:	PROFESSIONAL OR TECHNICAL

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Head of Household Information

Head of Household:	MR RONALD H BALDWIN
Gender:	MALE
Date of Birth:	08/XX/1955
Name/Address Confirmed:	05/2017
Marital Status:	MARRIED

Additional Individuals In This Household

Name:	MS NANCY G BALDWIN (Spouse)
Gender:	FEMALE
Date of Birth:	05/XX/1947
Name/Address Confirmed:	01/2017
Marital Status:	MARRIED

End of Document

To Summary

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People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	5730 TEE DR FARMINGTON, NM 87402-4921
County:	SAN JUAN
Latitude/Longitude:	36.78569/-108.135529
Residence Type:	SINGLE FAMILY DWELLING
Address First Reported:	1998
Reported Occupation:	PROFESSIONAL OR TECHNICAL

Head of Household Information

Head of Household:	MR RONALD H BALDWIN
Gender:	MALE
Date of Birth:	02/XX/1953
Name/Address Confirmed:	07/2013
Marital Status:	MARRIED

Additional Individuals In This Household

Name:	MS NANCY G BALDWIN (Spouse)
Gender:	FEMALE
Date of Birth:	05/XX/1947
Name/Address Confirmed:	07/2013
Marital Status:	MARRIED
Name:	MR JACOB J BALDWIN
Gender:	MALE
Date of Birth:	01/XX/1983

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Name/Address Confirmed:	03/2012

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Possible Relatives & Household Members

Household Records

4250 LAKE CREEK FARMS RD HEBER CITY, UT 84032-4329 | Full-Text

Address First Reported:	2011	**Confidence Score:**	99
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MR RONALD H BALDWIN	Head of Household	08/XX/1955	05/2017
MS NANCY G BALDWIN	Spouse	05/XX/1947	01/2017

5730 TEE DR FARMINGTON, NM 87402-4921 | Full-Text

Address First Reported:	1998	**Confidence Score:**	99
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MR RONALD H BALDWIN	Head of Household	02/XX/1953	07/2013
MS NANCY G BALDWIN	Spouse	05/XX/1947	07/2013
MR JACOB J BALDWIN	Other	01/XX/1983	03/2012

Possible Named Parties

People Associations

DEBRA J HYMAS	CATHERINE PATTERSON
ANDREW SCHNEIDER	DONALD L WHITE
LOUIS B HENDERSON	CRAIG LEVASSEUR
ANTONIO MARI	LORENZO GARCIA
STEVEN M BROOKS	RONALD DWAIN BALDWIN
LORENZO A GARCIA	FERNANDO POLANCO
PABLO L CASTRO	JASON M JONES
JOSE L GONZALEZ	CHANANYAH SILVERMAN
DANIELLE CORBIN	BRANDY JOHNSON
STEVEN W AUBRECHT	MARY HICKS
SHAINDY WEISS	TIMOTHY A FOTINOS

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FOFIE FULLAH	AJAYI A AWOKOYA
JEANNINE NICHOLS	ANDREA O KRISKO
JAMES D INABNETT	CLAUDE BROWN
KEVIN W KUHR	JACOB J BALDWIN
STEPHEN M MADONNA	BRITTANY SCHENCK
JOHN G SCALA	DONALD L WHITE
SUSAN M POWELL	JOSE GONZALEZ
BRIAN M GULKO	MOLLY WENDT
BEN LEE	CLAUDE BROWN
JENNIFER A QUINN	KELLY R WESLEY
WILLIAM KEGEL	DAVID CHRISTENBURY
CHRISTINE PAYNTER	THERESA WONG
CLAUDE BROWN	MARK D CASE
DALIA R SANTANA	BARRY W BRAKE
DOREEN MORRISSY	ABIGAIL C BELANGER
NANCY G BALDWIN	LEROY WHITE
ADONIA WILLIAMS	LUIS A LIM
ANN L JOHNSON	JOHN P RICHARDS
WANDA O BROWNE	MARILEE D AGAJANIAN
STEVEN BROOKS	BRENDA J JOHNSON
LINDA S SHEKITA	TED HAUB
HENRY K BATES II	DANIEL G GREENWOOD
PAUL MICHAEL GOODWIN	ANN MCGEE
ALNETTA C GRIGGS	MARYJO C MELATO
NADINE E SCALI	ADAM JUHRE
MARC FEIGLIN	JACKIE H CARR
CARL R BRYSON	JESSE LAI
DEBORA G BAILEY	DONALD L WHITE
MARY TOWNSEND	JAMES K MAYRA
DWIGHT A MCMURRAY	KRISTEN DVELIS
MARY ANNE CAPUTO	THOMAS G BOHANNON
JAMES SCHALLER	REGINA M MULLINS
JACOB J BALDWIN	WILLIAM E BRYSON
DOUGLAS E LEE	JASON JONES
JAMES A PITTMAN	ANN PETTIT
SUSAN L MAZZONI	CLARENCE MILLER
CYNTHIA PETERSON	RITA ADAMS
GERTRUDE M FERENCHAK	RON J BALDWIN

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DOUGLAS C CHAPIN	DANI R PATTEN
JEAN CHA	JOSEPH S PETTIT
JENNIFER A KRICHBAUM	

Business Associations

VALLEY TRIBUNE	ANDERSON NEWS
ELLWOOD CITY LEDGER	ANDERSON NEWS LLC
CITIZENS PUBLISHING & PRINTING	LANDMARK COMMUNITY NEWSPAPERS
COACHSMART, LLC	

No Documents Found

No Documents Were Found In These Sources

Aircraft Records	Bankruptcy Records
BusFindUS	Conceal & Carry Weapons Permits
Corporate Records & Business Registrations	Death Records
Divorce Records	DMI
Executive Bios	FBN/DBA
FEIN	Healthcare Licenses
Hunting & Fishing Licenses	Lawsuit Records
Liens & Judgments	Marriage Records
New Movers Records	Political Donors
Real Property Pre-Foreclosure Records	Stock
UCC Records	Unclaimed Assets
Vehicle Registrations	Watercraft Records

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VOTERS - Use in connection with a non-commercial purpose.
Skip Tracing for Consumer Collections Declaration - Are you using this product for skip tracing related to consumer debt collection? - No

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Possible People Information 2
Person Overview 2
Date of Birth Summary 2
SSN Summary 2
Name Variations 2
Addresses 2
Voter Registrations 4
Phone Numbers 4
Possible Asset Information 5
Vehicle Registrations 5
Full-Text Documents 5
All Full-Text Documents 5
Possible Relatives & Household Members 33
Household Records 33
Possible Named Parties 35
People Associations 35
Business Associations 35
No Documents Found 35
No Documents Were Found In These Sources 35
Permissible Uses and FCRA Disclaimer 35
Permissible Uses 35

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Possible People Information

Person Overview

SAMANTHA E BANKSTON

1654 MASSACHUSETTS AVE APT 28

CAMBRIDGE, MA 02138-2709 | MIDDLESEX County

Phone Number(s):

617-661-5314

212-254-5298

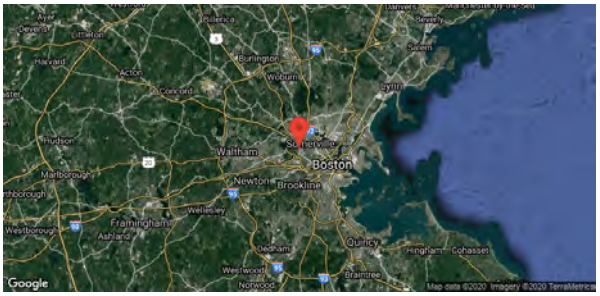
440-6128

SSN:

524-23-XXXX - issued in CO in 1979

DOB:

09/XX/1978 (Age: 41)



Date of Birth Summary

Date of Birth	Source
09/XX/1978 (Age: 41)	People Find | People Household #1 | People Household #2

SSN Summary

SSN	Source
524-23-XXXX - issued in CO in 1979	People Find

Name Variations

Name	Source
MS SAMANTHA BANKSTON	New Movers #1 | New Movers #2 | New Movers #3 | New Movers #4 | New Movers #5 | People Find | People Household #1 | People Household #2 | People Household #3 | People Household #4 | People Household #5
S BANKSTON	People Find
S S BANKSTON	People Find
SAMANTHA BANKSTON	Voters Registration

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Addresses

Address		
1654 MASSACHUSETTS AVE APT 28, CAMBRIDGE, MA 02138-2709 | MIDDLESEX County		
Reported 01/01/2018 - 06/30/2019		
By People Household 01/01/2018 - 06/30/2019	People Household #1	People Household #2
By People Find 11/12/2018 - 11/12/2018	People Find	
By New Movers 09/26/2018 - 09/26/2018	New Movers	
By Motor Vehicle 08/27/2018 - 08/27/2018	Motor Vehicle	
PO BOX 6366, INCLINE VILLAGE, NV 89450-6366 | WASHOE County		
Reported 01/01/2012 - 04/08/2018		
By Motor Vehicle 05/10/2017 - 05/10/2017	Motor Vehicle	
By New Movers 04/22/2013 - 04/22/2013	New Movers	
By People Household 01/01/2013 - 02/28/2013	People Household	
By People Find 02/01/2013 - 02/01/2013	People Find	
907 TYNER WAY, INCLINE VILLAGE, NV 89451-8516 | WASHOE County		
Reported 01/01/2012 - 11/30/2016		
By People Household 01/01/2012 - 11/30/2016	People Household	
By Voters Registration	Voters Registration	
1705 SUMMIT DR, W LAFAYETTE, IN 47906-2229 | TIPPECANOE County		
Reported 09/22/2016 - 09/22/2016		
By New Movers 09/22/2016 - 09/22/2016	New Movers	
1437 TIROL DR, INCLINE VILLAGE, NV 89451-7902 | WASHOE County		
Reported 02/01/2012 - 07/05/2015		
By Motor Vehicle 07/05/2015 - 07/05/2015	Motor Vehicle	
By People Find 02/01/2012 - 02/01/2012	People Find	
PO BOX 3434, INCLINE VILLAGE, NV 89450-3434 | WASHOE County		
Reported 07/01/2012 - 05/20/2015		
By Motor Vehicle 05/20/2015 - 05/20/2015	Motor Vehicle	
By New Movers 02/23/2013 - 02/23/2013	New Movers	
By People Find 07/01/2012 - 07/01/2012	People Find	
782 IDA CT, INCLINE VILLAGE, NV 89451-8533 | WASHOE County		
Reported 01/01/2012 - 02/23/2013		
By New Movers 02/23/2013 - 02/23/2013	New Movers	
By People Find 10/03/2012 - 10/03/2012	People Find	
By People Household 01/01/2012 - 08/31/2012	People Household	
1359 VALAIS WAY, INCLINE VILLAGE, NV 89451-7912 | WASHOE County		
Reported 04/05/2011 - 02/23/2013		
By New Movers 02/23/2013 - 02/23/2013	New Movers	
By People Find 02/01/2012 - 02/01/2012	People Find	

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By Motor Vehicle 04/05/2011 - 04/05/2011	Motor Vehicle
1359 VALAIS WA, INCLINE VILLAGE, NV 89451-7912	
Reported 03/04/2012 - 03/04/2012	
By People Find 03/04/2012 - 03/04/2012	People Find
PO BOX 1474, VAIL, CO 81658-1474 | EAGLE County	
Reported 06/29/2009 - 06/29/2009	
By Motor Vehicle 06/29/2009 - 06/29/2009	Motor Vehicle
5197 BLACK GORE DR, VAIL, CO 81657-5486 | EAGLE County	
Reported 06/29/2009 - 06/29/2009	
By Motor Vehicle 06/29/2009 - 06/29/2009	Motor Vehicle
3607 OAK RIDGE DR, ELKHART, IN 46517-3800 | ELKHART County	
Reported 10/15/2005 - 12/06/2005	
By People Find 12/06/2005 - 12/06/2005	People Find
227 DEHART ST, WEST LAFAYETTE, IN 47906-2727 | TIPPECANOE County	
Reported 10/10/2005 - 10/10/2005	
By Motor Vehicle 10/10/2005 - 10/10/2005	Motor Vehicle
4453 KANO DR, FORT COLLINS, CO 80526-4812 | LARIMER County	
Reported 10/10/2005 - 10/10/2005	
By Motor Vehicle 10/10/2005 - 10/10/2005	Motor Vehicle
64 S 4TH ST APT C, BROOKLYN, NY 11249-5165 | KINGS County	
Reported 01/21/2005 - 02/05/2005	
By People Find 01/21/2005 - 01/21/2005	People Find
5 W 8TH ST, NEW YORK, NY 10011-9099 | NEW YORK County	
Reported 12/21/2004 - 01/08/2005	
By People Find 12/21/2004 - 12/21/2004	People Find
1111 30TH ST APT 41, BOULDER, CO 80303-2081 | BOULDER County	
Reported 04/01/2000 - 01/24/2003	
By People Find 01/24/2003 - 01/24/2003	People Find
5433 LA PLATA CI, BOULDER, CO 80301-3526	
Reported 01/24/2003 - 01/24/2003	
By People Find 01/24/2003 - 01/24/2003	People Find
5433 LA PLATA CIR, BOULDER, CO 80301-3526 | BOULDER County	
Reported 04/01/1998 - 04/01/1998	
By People Find 04/01/1998 - 04/01/1998	People Find

Voter Registrations

Political Party	Last Voted Date	Confidence Score	View Full Text
NON DECLARED	11/08/2016	98%	Full-Text

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Phone Numbers

Phone	Source
617-661-5314	People Find | People Household
212-254-5298	People Find
440-6128	People Find

Possible Asset Information

Vehicle Registrations

Year	Make	Model	Registration Date	Confidence Score	View Full Text
Current Motor Vehicles					
2004	VOLKSWAGEN	PASSAT	08/27/2018	97%	Full-Text
1998	JEEP	CHEROKEE	06/10/2013	68%	Full-Text
Historical Motor Vehicles					
1996	JEEP	CHEROKEE	05/18/2018	97%	Full-Text
1994	JEEP	CHEROKEE	04/07/2017	97%	Full-Text

Full-Text Documents

All Full-Text Documents

Voter Registrations (1)

To Summary

Voter Registration Record

Source Information

Information Current Through:	06/03/2020
Database Last Updated:	07/16/2020
Update Frequency:	ANNUAL
Current Date:	08/12/2020

Voter History

General 2012	VOTED
Last Date Voted:	11/08/2016

Demographic Information

Date of Birth:	09/XX/1978
Political Party:	NON DECLARED

Name and Personal Information

Name:	SAMANTHA BANKSTON

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Address:	907 TYNER WAY INCLINE VILLAGE, NV 89451

Registration Information

Voter Identification Number:	482973
Motor Voter Identification Number:	3927941
Registration Date:	10/01/2012

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New Movers Records (6)

To Summary

New Movers Record

Source Information

Information Current Through:	08/15/2020
Database Last Updated:	08/12/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information

Address:	1359 VALAIS WAY INCLINE VILLAGE, NV 89451-7912
County:	WASHOE
Date:	02/23/2013

Head of Household Information

Name:	MS SAMANTHA BANKSTON
Age Range:	55-59

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To Summary

New Movers Record

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Source Information

Information Current Through:	08/15/2020
Database Last Updated:	08/12/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information

Address:	782 IDA CT INCLINE VILLAGE, NV 89451-8533
County:	WASHOE
Date:	02/23/2013

Head of Household Information

Name:	MS SAMANTHA BANKSTON
Age Range:	55-59

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To Summary

New Movers Record

Source Information

Information Current Through:	08/15/2020
Database Last Updated:	08/12/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information

Address:	1654 MASSACHUSETTS AVE CAMBRIDGE, MA 02138-2725
County:	MIDDLESEX
Residence Type:	MULTI-FAMILY DWELLING
Telephone Number(s):	617-661-5314
Date:	09/27/2018

Head of Household Information

Name:	SAMANTHA BANKSTON
Age Range:	40-44

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To Summary

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New Movers Record

Source Information

Information Current Through:	08/15/2020
Database Last Updated:	08/12/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information

Address:	1705 SUMMIT DR WEST LAFAYETTE, IN 47906-2229
County:	TIPPECANOE
Date:	09/22/2016

Head of Household Information

Name:	SAMANTHA E BANKSTON
Age Range:	50-54

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To Summary

New Movers Record

Source Information

Information Current Through:	08/15/2020
Database Last Updated:	08/12/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information

Address:	PO BOX 6366 INCLINE VILLAGE, NV 89450-6366
County:	WASHOE
Date:	04/22/2013

Head of Household Information

Name:	MS SAMANTHA BANKSTON

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Age Range:	55-59

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To Summary

New Movers Record

Source Information

Information Current Through:	08/15/2020
Database Last Updated:	08/12/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information

Address:	PO BOX 3434 INCLINE VILLAGE, NV 89450-3434
County:	WASHOE
Date:	02/23/2013

Head of Household Information

Name:	MS SAMANTHA BANKSTON
Age Range:	55-59

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People Find Records (1)

To Summary

People Finder - Historic Tracker Record

Source Information

Information Current Through:	06/30/2020
Database Last Updated:	07/07/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	TRANS UNION

Last Known Address Information

Current Address:	1654 MASSACHUSETTS AV 28 CAMBRIDGE, MA 02138-2709
Phone Number 1:	617-661-5314
Phone Number 2:	212-254-5298
Address First Reported:	11/12/2018

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Individual Information

Name:	BANKSTON, SAMANTHA E
Also Known As:	BANKSTON, SAMANTHA BANKSTON, S S BANKSTON, S
SSN:	524-23-XXXX
Date of Birth:	09/XX/1978
Historic Phone Number:	440-6128
On File Since:	04/01/1998

Other Address Information

Previous Address:	PO BOX 6366 INCLINE VILLAGE, NV 89450-6366
Address First Reported:	02/01/2013
Previous Address:	782 IDA CT INCLINE VILLAGE, NV 89451-8533
Address First Reported:	09/01/2012
Previous Address:	PO BOX 3434 INCLINE VILLAGE, NV 89450-3434
Address First Reported:	07/01/2012
Previous Address:	1437 TIROL DR INCLINE VILLAGE, NV 89451-7902
Address First Reported:	02/01/2012
Previous Address:	1359 VALAIS WA INCLINE VILLAGE, NV 89451-7912
Address First Reported:	02/01/2012
Previous Address:	3607 OAK RIDGE DR ELKHART, IN 46517-3800
Address First Reported:	10/15/2005
Previous Address:	64 S 4TH ST C BROOKLYN, NY 11249-5165
Address First Reported:	01/21/2005
Previous Address:	5 W 8TH ST NEW YORK, NY 10011-9099
Address First Reported:	12/21/2004
Previous Address:	1111 30TH ST BOULDER, CO 80303-2069
Address First Reported:	04/01/2000
Previous Address:	5433 LA PLATA CI

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	BOULDER, CO 80301-3526
Address First Reported:	04/01/1998

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Vehicle Registrations (4)

To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/09/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF MOTOR VEHICLES

Vehicle Information

VIN:	1J4FJ28S3TL241993
Vehicle Type:	PASSENGER CAR
Model Year:	1996
Make:	JEEP
Body Style:	SUV 4D 5P
Model/Series:	CHEROKEE SE

Registration Information

Registration Renewal Date:	05/18/2018
Expiration Date:	05/18/2019
Registrant(s) Since:	05/18/2018
Name:	ROBERT KING
Interest:	REGISTRANT
Mailing Address:	PO BOX 6221 6221 INCLINE VILLAGE, NV 89450-6221
County:	WASHOE

Title Information:

Original Title Date:	12/13/2017
Title Number:	NV010109252 7

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Name:	ROBERT KING
Interest:	OWNER
Title Transaction Date:	12/13/2017
Mailing Address:	PO BOX 6221 6221 INCLINE VILLAGE, NV 89450-6221
County:	WASHOE

Historical DMV Record 1

Registration Renewal Date:	07/05/2015
Expiration Date:	07/05/2016
Issuing State:	NV
Previous Plate State:	NV
Name:	SAMANTHA BANKSTON
Interest:	REGISTRANT
Mailing Address:	1437 TIROL DR INCLINE VILLAGE, NV 89451-7902
County:	WASHOE

Historical DMV Record 2

Registration Renewal Date:	03/14/2014
Expiration Date:	03/14/2015
Issuing State:	NV
Previous Plate State:	NV
Name:	SAMANTHA BANKSTON
Interest:	REGISTRANT
Mailing Address:	1437 TIROL DR INCLINE VILLAGE, NV 89451-7902
County:	WASHOE

Historical DMV Record 3

Registration Renewal Date:	05/31/2012
Expiration Date:	01/02/2013
Issuing State:	NV
Previous Plate State:	NV
Name:	SAMANTHA BANKSTON
Interest:	REGISTRANT
Mailing Address:	1437 TIROL DR INCLINE VILLAGE, NV 89451-7902

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County:	WASHOE

Historical DMV Record 4

Registration Renewal Date:	07/28/2010
Expiration Date:	07/28/2011
Issuing State:	NV
Previous Plate State:	NV
Name:	SAMANTHA BANKSTON
Interest:	REGISTRANT
Mailing Address:	1437 TIROL DR INCLINE VILLAGE, NV 89451-7902
County:	WASHOE
Title Transfer Date:	07/28/2010
Name:	SAMANTHA BANKSTON
Interest:	OWNER
Mailing Address:	1437 TIROL DR INCLINE VILLAGE, NV 89451-7902
County:	WASHOE

Historical DMV Record 5

Registration Renewal Date:	07/01/2009
Expiration Date:	07/01/2010
Issuing State:	NV
Previous Plate State:	NV
Name:	CATHERINE M. LEEDS
Interest:	REGISTRANT
Mailing Address:	520 DAYTON VALLEY RD DAYTON, NV 89403-8731
County:	LYON
Title Transfer Date:	04/28/2009
Name:	LOANMAX
Interest:	LIEN HOLDER
Mailing Address:	1936 N CARSON ST CARSON CITY, NV 89701-1217
County:	CARSON CITY
Title Transfer Date:	04/28/2009
Name:	CATHERINE M. LEEDS
Interest:	OWNER
Mailing Address:	170 KOONTZ LN

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	CARSON CITY, NV 89701-5506
County:	CARSON CITY

Historical DMV Record 6

Registration Renewal Date:	06/05/2008
Expiration Date:	06/05/2009
Issuing State:	NV
Previous Plate State:	NV
Name:	CATHERINE M. LEEDS
Interest:	REGISTRANT
Mailing Address:	520 DAYTON VALLEY RD DAYTON, NV 89403-8731
County:	LYON

Historical DMV Record 7

Registration Renewal Date:	05/18/2007
Expiration Date:	05/08/2008
Issuing State:	NV
Previous Plate State:	NV
Name:	CATHERINE M. LEEDS
Interest:	REGISTRANT
Mailing Address:	520 DAYTON VALLEY RD DAYTON, NV 89403-8731
County:	LYON

Historical DMV Record 8

Title Transfer Date:	05/03/2006
Name:	CATHERINE M. LEEDS
Interest:	OWNER
Mailing Address:	520 DAYTON VALLEY RD DAYTON, NV 89403-8731
County:	LYON
Registration Renewal Date:	07/19/2006
Expiration Date:	07/19/2007
Issuing State:	NV
Name:	DAEDREON PRINCIPE HALE
Interest:	REGISTRANT
Mailing Address:	1111 WARBONNET WAY LAS VEGAS, NV 89117-1328

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County:	CLARK

Historical DMV Record 9

Registration Renewal Date:	07/18/2005
Expiration Date:	07/18/2006
Issuing State:	NV
Name:	DAEDREON PRINCIPE HALE
Interest:	REGISTRANT
Mailing Address:	1111 WARBONNET WAY LAS VEGAS, NV 89117-1327
County:	CLARK

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/09/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF MOTOR VEHICLES

Vehicle Information

VIN:	1J4FJ28S7WL248479
Vehicle Type:	PASSENGER CAR
Model Year:	1998
Make:	JEEP
Body Style:	SUV 4D 5P
Model/Series:	CHEROKEE SE

Registration Information

Registration Renewal Date:	04/08/2018
Expiration Date:	05/31/2019
Registrant(s) Since:	06/10/2013
Name:	SAMANTHA ELIZABETH BANKSTON
Interest:	REGISTRANT
Mailing Address:	PO BOX 6366 6366

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	INCLINE VILLAGE, NV 89450-6366
County:	WASHOE

Title Information:

Original Title Date:	04/13/2020
Title Number:	NV012562163 6
Name:	PICK N PULL
Interest:	OWNER
Title Transaction Date:	04/13/2020
Mailing Address:	10860 GOLD CENTER DR STE 250 RANCHO CORDOVA, CA 95670-6024
County:	SACRAMENTO

Historical DMV Record 1

Title Transfer Date:	11/09/2018
Name:	SAMANTHA ELIZABETH BANKSTON
Interest:	OWNER
Mailing Address:	750 ARROWCREEK PKWY RENO, NV 89511-5364
County:	WASHOE
Title Transfer Date:	07/09/2018
Name:	SAMANTHA ELIZABETH BANKSTON
Interest:	OWNER
Mailing Address:	750 ARROWCREEK PKWY RENO, NV 89511-5364
County:	WASHOE

Historical DMV Record 2

Registration Renewal Date:	05/10/2017
Expiration Date:	05/31/2018
Name:	SAMANTHA ELIZABETH BANKSTON
Interest:	REGISTRANT
Mailing Address:	PO BOX 6366 6366 INCLINE VILLAGE, NV 89450-6366
County:	WASHOE

Historical DMV Record 3

Registration Renewal Date:	05/19/2016
Expiration Date:	05/31/2017

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Issuing State:	NV
Previous Plate State:	NV
Name:	SAMANTHA ELIZABETH BANKSTON
Interest:	REGISTRANT
Mailing Address:	PO BOX 6366 6366 INCLINE VILLAGE, NV 89450-6366
County:	WASHOE

Historical DMV Record 4

Registration Renewal Date:	05/20/2015
Expiration Date:	05/31/2016
Issuing State:	NV
Previous Plate State:	NV
Name:	SAMANTHA ELIZABETH BANKSTON
Interest:	REGISTRANT
Mailing Address:	PO BOX 3434 3434 INCLINE VILLAGE, NV 89450-3434
County:	WASHOE

Historical DMV Record 5

Registration Renewal Date:	06/02/2014
Expiration Date:	05/31/2015
Issuing State:	NV
Previous Plate State:	NV
Name:	SAMANTHA ELIZABETH BANKSTON
Interest:	REGISTRANT
Mailing Address:	PO BOX 3434 3434 INCLINE VILLAGE, NV 89450-3434
County:	WASHOE

Historical DMV Record 6

Registration Renewal Date:	06/10/2013
Expiration Date:	05/31/2014
Issuing State:	NV
Previous Plate State:	NV
Name:	SAMANTHA ELIZABETH BANKSTON

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Interest:	REGISTRANT
Mailing Address:	PO BOX 3434 3434 INCLINE VILLAGE, NV 89450-3434
County:	WASHOE

Historical DMV Record 7

Registration Renewal Date:	05/31/2012
Expiration Date:	05/31/2013
Issuing State:	NV
Previous Plate State:	NV
Name:	SAMANTHA ELIZABETH BANKSTON
Interest:	REGISTRANT
Mailing Address:	PO BOX 3434 3434 INCLINE VILLAGE, NV 89450-3434
County:	WASHOE

Historical DMV Record 8

Registration Renewal Date:	04/05/2011
Expiration Date:	04/05/2012
Issuing State:	NV
Previous Plate State:	NV
Name:	SAMANTHA ELIZABETH BANKSTON
Interest:	REGISTRANT
Mailing Address:	1359 VALAIS WAY INCLINE VILLAGE, NV 89451-7912
County:	WASHOE
Title Transfer Date:	04/05/2011
Name:	SAMANTHA ELIZABETH BANKSTON
Interest:	OWNER
Mailing Address:	1359 VALAIS WAY INCLINE VILLAGE, NV 89451-7912
County:	WASHOE

Historical DMV Record 9

Registration Renewal Date:	03/15/2010
Expiration Date:	04/14/2011
Issuing State:	NV

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Previous Plate State:	NV
Name:	WAYNE HOOPER
Interest:	REGISTRANT
Mailing Address:	UNKNOWN
Registration Renewal Date:	03/15/2010
Expiration Date:	04/14/2011
Name:	KATHY HOOPER
Interest:	REGISTRANT
Mailing Address:	UNKNOWN

Historical DMV Record 10

Registration Renewal Date:	03/23/2009
Expiration Date:	04/14/2010
Issuing State:	NV
Previous Plate State:	NV
Name:	WAYNE ROGER HOOPER
Interest:	REGISTRANT
Mailing Address:	PO BOX 3802 3802 INCLINE VILLAGE, NV 89450-3802
County:	WASHOE
Registration Renewal Date:	03/23/2009
Expiration Date:	04/14/2010
Name:	KATHERINE ANN HOOPER
Interest:	REGISTRANT
Mailing Address:	PO BOX 3802 3802 INCLINE VILLAGE, NV 89450-3802
County:	WASHOE

Historical DMV Record 11

Registration Renewal Date:	03/24/2008
Expiration Date:	04/14/2009
Issuing State:	NV
Previous Plate State:	NV
Name:	WAYNE HOOPER
Interest:	REGISTRANT
Mailing Address:	PO BOX 3802 3802

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	INCLINE VILLAGE, NV 89450-3802
County:	WASHOE
Registration Renewal Date:	03/24/2008
Expiration Date:	04/14/2009
Name:	KATHERINE ANN HOOPER
Interest:	REGISTRANT
Mailing Address:	PO BOX 3802 3802 INCLINE VILLAGE, NV 89450-3802
County:	WASHOE

Historical DMV Record 12

Registration Renewal Date:	03/26/2007
Expiration Date:	04/14/2008
Issuing State:	NV
Previous Plate State:	NV
Name:	WAYNE ROGER HOOPER
Interest:	REGISTRANT
Mailing Address:	PO BOX 3802 3802 INCLINE VILLAGE, NV 89450-3802
County:	WASHOE
Registration Renewal Date:	03/26/2007
Expiration Date:	04/14/2008
Name:	KATHERINE ANN HOOPER
Interest:	REGISTRANT
Mailing Address:	PO BOX 3802 3802 INCLINE VILLAGE, NV 89450-3802
County:	WASHOE

Historical DMV Record 13

Registration Renewal Date:	03/24/2006
Expiration Date:	04/14/2007
Issuing State:	NV
Name:	WAYNE R. HOOPER
Interest:	REGISTRANT
Mailing Address:	PO BOX 3802 3802

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	INCLINE VILLAGE, NV 89450-3802
County:	WASHOE
Physical Address:	3802
Registration Renewal Date:	03/24/2006
Expiration Date:	04/14/2007
Name:	KATHERINE A. HOOPER
Interest:	REGISTRANT
Mailing Address:	PO BOX 3802 3802 INCLINE VILLAGE, NV 89450-3802
County:	WASHOE
Physical Address:	3802

Historical DMV Record 14

Title Transfer Date:	04/14/2005
Name:	WAYNE HOOPER
Interest:	OWNER
Mailing Address:	PO BOX 3802 3802 INCLINE VILLAGE, NV 89450-3802
County:	WASHOE
Title Transfer Date:	04/14/2005
Name:	KATHY HOOPER
Interest:	OWNER
Mailing Address:	PO BOX 3802 3802 INCLINE VILLAGE, NV 89450-3802
County:	WASHOE
Title Transfer Date:	04/14/2005
Name:	WAYNE ROGER HOOPER
Interest:	OWNER
Mailing Address:	PO BOX 3802 3802 INCLINE VILLAGE, NV 89450-3802
County:	WASHOE
Title Transfer Date:	04/14/2005
Name:	KATHERINE ANN HOOPER
Interest:	OWNER
Mailing Address:	PO BOX 3802

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	3802 INCLINE VILLAGE, NV 89450-3802
County:	WASHOE
Registration Renewal Date:	04/14/2005
Expiration Date:	04/14/2006
Issuing State:	NV
Name:	WAYNE HOOPER
Interest:	REGISTRANT
Mailing Address:	PO BOX 3802 3802 INCLINE VILLAGE, NV 89450-3802
County:	WASHOE
Physical Address:	3802
Registration Renewal Date:	04/14/2005
Expiration Date:	04/14/2006
Name:	KATHY HOOPER
Interest:	REGISTRANT
Mailing Address:	PO BOX 3802 3802 INCLINE VILLAGE, NV 89450-3802
County:	WASHOE
Physical Address:	3802

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2001
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	REGISTRY OF MOTOR VEHICLES

Vehicle Information

VIN:	WVWVD63B94E174300
Vehicle Type:	PASSENGER CAR
Model Year:	2004

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Make:	VOLKSWAGEN
Body Style:	WAGON 4D 5P
Model/Series:	PASSAT GLS
Primary Color:	GRAY

Registration Information

License Plate Number:	8GZ917
Issuing State:	MA
Plate Type:	PRIVATE
Previous Plate Number:	EEX9761
Previous Plate State:	NC
Registration Renewal Date:	08/27/2018
Expiration Date:	07/31/2020
Registrant(s) Since:	08/27/2018
Name:	SAMANTHA E. BANKSTON
Interest:	REGISTRANT
Mailing Address:	1654 MASSACHUSETTS AVE APT 28 CAMBRIDGE, MA 02138-2709
County:	MIDDLESEX

Title Information:

Original Title Date:	09/14/2018
Title Number:	BU397818
Name:	SAMANTHA E. BANKSTON
Interest:	OWNER
Title Transaction Date:	09/14/2018
Mailing Address:	1654 MASSACHUSETTS AVE APT 28 CAMBRIDGE, MA 02138-2709
County:	MIDDLESEX

End of Document

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	1J4FJ28S0RL215473
Vehicle Type:	PASSENGER CAR
Model Year:	1994
Make:	JEEP
Body Style:	SUV 4D 5P
Model/Series:	CHEROKEE SE

Registration Information

License Plate Number:	JOS302
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	101KQE
Previous Plate State:	CO
Registration Renewal Date:	04/07/2017
Expiration Date:	04/30/2018
Registrant(s) Since:	04/07/2017
Name:	LUKE GORDON
Interest:	REGISTRANT
Mailing Address:	PO BOX 770182 770182 STEAMBOAT SPRINGS, CO 80477-0182
County:	ROUTT
Physical Address:	3295 APRES SKI WAY B2 STEAMBOAT SPRINGS, CO 80487-2343
County:	ROUTT

Title Information:

Original Title Date:	04/07/2017
Title Number:	28E331620
Name:	LUKE GORDON
Interest:	OWNER
Title Transaction Date:	04/07/2017
Mailing Address:	PO BOX 770182 770182 STEAMBOAT SPRINGS, CO 80477-0182

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	ROUTT
Physical Address:	3295 APRES SKI WAY UNIT B2 STEAMBOAT SPRINGS, CO 80487-2343
County:	ROUTT

Historical DMV Record 1

Registration Renewal Date:	02/09/2016
Expiration Date:	02/28/2017
License Plate Number:	101KQE
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	101KQE
Previous Plate State:	CO
Name:	LLOYD WALDRON
Interest:	REGISTRANT
Mailing Address:	PO BOX 752 752 TABERNASH, CO 80478-0752
County:	GRAND
Physical Address:	64 COUNTY RD 861 GRANBY, CO 80446
County:	GRAND

Historical DMV Record 2

Registration Renewal Date:	02/26/2015
Expiration Date:	02/28/2016
License Plate Number:	101KQE
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	101KQE
Previous Plate State:	CO
Name:	LLOYD WALDRON
Interest:	REGISTRANT
Mailing Address:	PO BOX 752 752 TABERNASH, CO 80478-0752
County:	GRAND
Physical Address:	64 COUNTY RD 861 GRANBY, CO 80446

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	GRAND

Historical DMV Record 3

Registration Renewal Date:	02/12/2014
Expiration Date:	02/28/2015
License Plate Number:	101KQE
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	942RGZ
Previous Plate State:	CO
Name:	LLOYD WALDRON
Interest:	REGISTRANT
Mailing Address:	PO BOX 752 752 TABERNASH, CO 80478-0752
County:	GRAND
Physical Address:	64 COUNTY RD 861 GRANBY, CO 80446
County:	GRAND
Title Transfer Date:	02/12/2014
Name:	LLOYD WALDRON
Interest:	OWNER
Mailing Address:	PO BOX 752 752 TABERNASH, CO 80478-0752
County:	GRAND
Physical Address:	64 COUNTY RD 861 GRANBY, CO 80446
County:	GRAND

Historical DMV Record 4

Registration Renewal Date:	02/06/2013
Expiration Date:	01/31/2014
License Plate Number:	942RGZ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	942RGZ
Previous Plate State:	CO
Name:	CHANDLER WHITNEY

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Interest:	REGISTRANT
Mailing Address:	3170 INGLES LN STEAMBOAT SPR, CO 80487-1770
County:	ROUTT
Physical Address:	3170 INGLES LN STEAMBOAT SPR, CO 80487-1770
County:	ROUTT

Historical DMV Record 5

Registration Renewal Date:	01/31/2012
Expiration Date:	01/31/2013
License Plate Number:	942RGZ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	942RGZ
Previous Plate State:	CO
Name:	CHANDLER WHITNEY
Interest:	REGISTRANT
Mailing Address:	3170 INGLES LN STEAMBOAT SPR, CO 80487-1770
County:	ROUTT
Physical Address:	3170 INGLES LN STEAMBOAT SPR, CO 80487-1770
County:	ROUTT

Historical DMV Record 6

Registration Renewal Date:	01/13/2011
Expiration Date:	01/31/2012
License Plate Number:	942RGZ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	942RGZ
Previous Plate State:	CO
Name:	CHANDLER WHITNEY
Interest:	REGISTRANT
Mailing Address:	PO BOX 771074 771074 STEAMBOAT SPRIN, CO 80477-1074
County:	ROUTT

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Physical Address:	820 BROAD ST STEAMBOAT SPRIN, CO 80487-4999
County:	ROUTT

Historical DMV Record 7

Registration Renewal Date:	11/22/2010
Expiration Date:	09/30/2010
License Plate Number:	942RGZ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	942RGZ
Previous Plate State:	CO
Name:	CHANDLER WHITNEY
Interest:	REGISTRANT
Mailing Address:	PO BOX 771074 771074 STEAMBOAT SPRIN, CO 80477-1074
County:	ROUTT
Physical Address:	820 BROAD ST STEAMBOAT SPRIN, CO 80487-4999
County:	ROUTT

Historical DMV Record 8

Registration Renewal Date:	09/24/2009
Expiration Date:	09/30/2010
License Plate Number:	942RGZ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	925KFT
Previous Plate State:	CO
Name:	CHANDLER WHITNEY
Interest:	REGISTRANT
Mailing Address:	PO BOX 773151 773151 STEAMBOAT SPRIN, CO 80477-3151
County:	ROUTT
Physical Address:	820 BROAD ST STEAMBOAT SPRIN, CO 80487-4999
County:	ROUTT

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Title Transfer Date:	09/24/2009
Name:	CHANDLER WHITNEY
Interest:	OWNER
Mailing Address:	PO BOX 773151 773151 STEAMBOAT SPRIN, CO 80477-3151
County:	ROUTT
Physical Address:	820 BROAD ST STEAMBOAT SPRIN, CO 80487-4999
County:	ROUTT
Registration Renewal Date:	06/29/2009
Expiration Date:	06/30/2010
License Plate Number:	925KFT
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	925KFT
Previous Plate State:	CO
Name:	SAMANTHA BANKSTON
Interest:	REGISTRANT
Mailing Address:	PO BOX 1474 1474 VAIL, CO 81658-1474
County:	EAGLE
Physical Address:	5197 BLACK GORE DR VAIL, CO 81657-5486
County:	EAGLE

Historical DMV Record 9

Registration Renewal Date:	10/10/2005
Expiration Date:	09/30/2006
License Plate Number:	925KFT
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	925KFT
Previous Plate State:	CO
Name:	SAMANTHA BANKSTON
Interest:	REGISTRANT
Mailing Address:	227 DEHART ST WEST LAFAYETTE, IN 47906-2727

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County:	TIPPECANOE
Physical Address:	4632 KANO DR FORT COLLINS, CO 80526-4817
County:	LARIMER
Registration Renewal Date:	10/10/2005
Expiration Date:	09/30/2006
License Plate Number:	925KFT
Issuing State:	CO
Name:	SAMANTHA BANKSTON
Interest:	REGISTRANT
Mailing Address:	227 DEHART ST WEST LAFAYETTE, IN 47906-2727
County:	TIPPECANOE
Physical Address:	4632 KANO DR FORT COLLINS, CO 80526-4817
County:	LARIMER

Historical DMV Record 10

Title Transfer Date:	09/10/2004
Name:	SAMANTHA BANKSTON
Interest:	OWNER
Mailing Address:	4632 KANO DR FORT COLLINS, CO 80526-4817
County:	LARIMER
Physical Address:	4632 KANO DR FORT COLLINS, CO 80526-4817
County:	LARIMER

End of Document

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Household Records (5)

To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020

Household Information:

Address:	1654 MASSACHUSETTS AVE

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

	CAMBRIDGE, MA 02138-2725
County:	MIDDLESEX
Latitude/Longitude:	-71.120128/42.381657
Residence Type:	MULTI-FAMILY DWELLING
Address First Reported:	2018

Head of Household Information

Head of Household:	MS SAMANTHA BANKSTON
Gender:	FEMALE
Name/Address Confirmed:	07/2018
Marital Status:	SINGLE

End of Document

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To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	907 TYNER WAY INCLINE VLG, NV 89451-8516
County:	WASHOE
Latitude/Longitude:	-119.96972/39.26237
Residence Type:	SINGLE FAMILY DWELLING
Address First Reported:	2012

Head of Household Information

Head of Household:	MS SAMANTHA BANKSTON
Gender:	FEMALE
Date of Birth:	09/XX/1978
Name/Address Confirmed:	11/2016
Marital Status:	SINGLE

Additional Individuals In This Household

Name:	MS HANNA M BANKSTON
Gender:	FEMALE
Name/Address Confirmed:	12/2014

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To Summary

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People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	782 IDA CT INCLINE VLG, NV 89451-8533
County:	WASHOE
Latitude/Longitude:	39.267356/-119.960308
Residence Type:	SINGLE FAMILY DWELLING
Address First Reported:	2012

Head of Household Information

Head of Household:	MS SAMANTHA BANKSTON
Gender:	FEMALE
Name/Address Confirmed:	08/2012
Marital Status:	SINGLE

End of Document

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To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	PO BOX 6366 INCLINE VLG, NV 89450-6366
County:	WASHOE
Latitude/Longitude:	-119.925737/39.2517
Address First Reported:	2012

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Head of Household Information

Head of Household:	MS SAMANTHA BANKSTON
Gender:	FEMALE
Date of Birth:	09/XX/1978
Name/Address Confirmed:	05/2017
Marital Status:	SINGLE

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To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	1654 MASSACHUSETTS AVE APT 28 CAMBRIDGE, MA 02138-2709
County:	MIDDLESEX
Latitude/Longitude:	-71.120141/42.381488
Residence Type:	MULTI-FAMILY DWELLING
Address First Reported:	2018

Head of Household Information

Head of Household:	MS SAMANTHA BANKSTON
Gender:	FEMALE
Name/Address Confirmed:	06/2019
Marital Status:	SINGLE

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Possible Relatives & Household Members

Household Records

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1654 MASSACHUSETTS AVE CAMBRIDGE, MA 02138-2725 | Full-Text

Address First Reported:	2018	Confidence Score:	97
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MS SAMANTHA BANKSTON	Head of Household	N/A	07/2018

907 TYNER WAY INCLINE VLG, NV 89451-8516 | Full-Text

Address First Reported:	2012	Confidence Score:	65
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MS SAMANTHA BANKSTON	Head of Household	09/XX/1978	11/2016
MS HANNA M BANKSTON	Other	N/A	12/2014

782 IDA CT INCLINE VLG, NV 89451-8533 | Full-Text

Address First Reported:	2012	Confidence Score:	97
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MS SAMANTHA BANKSTON	Head of Household	N/A	08/2012

PO BOX 6366 INCLINE VLG, NV 89450-6366 | Full-Text

Address First Reported:	2012	Confidence Score:	97
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MS SAMANTHA BANKSTON	Head of Household	09/XX/1978	05/2017

1654 MASSACHUSETTS AVE APT 28 CAMBRIDGE, MA 02138-2709 | Full-Text

Address First Reported:	2018	Confidence Score:	97
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MS SAMANTHA BANKSTON	Head of Household	N/A	06/2019

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Possible Named Parties

People Associations

SAMMIE E BANKSTON	LUKE GORDON
LLOYD K WALDRON	DAEDE P HALE
HANNA BANKSTON	SAMMIE E BANKSTON SR
CHIQUVIA S BANKSTON	KATHERINE A HOOPER
S BANKSTON	CATHERINE LEEDS
WHITNEY M CHANDLER	LLOYD E WALDRON
WAYNE R HOOPER	

Business Associations

PICK-N-PULL	ENCOMPASS FLORIDIAN INDEMNITY COMPANY

No Documents Found

No Documents Were Found In These Sources

Aircraft Records	Bankruptcy Records
BusFindUS	Conceal & Carry Weapons Permits
Corporate Records & Business Registrations	Death Records
Divorce Records	DMI
Email Address Records	Executive Bios
FBN/DBA	FEIN
Healthcare Licenses	Historical Address Records
Historical People Records	Hunting & Fishing Licenses
Lawsuit Records	Liens & Judgments
Marriage Records	Political Donors
Professional Licenses	Real Property Pre-Foreclosure Records
Real Property Tax Assessor Records	Real Property Transactions
Stock	UCC Records
Unclaimed Assets	Watercraft Records

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Possible People Information 2
Person Overview 2
Date of Birth Summary 2
SSN Summary 2
Name Variations 2
Addresses 2
Voter Registrations 4
Phone Numbers 4
Possible Asset Information 4
Real Property Tax Assessor Records 4
Real Property Transactions 4
Vehicle Registrations 5
Possible Adverse Information 6
UCC Records 6
Possible Business & Employment 6
Corporate Records & Business Registrations 6
Full-Text Documents 6
All Full-Text Documents 6
Possible Relatives & Household Members 98
Household Records 98
Possible Named Parties 99
People Associations 99
Business Associations 99
No Documents Found 99
No Documents Were Found In These Sources 99
Permissible Uses and FCRA Disclaimer 100
Permissible Uses 100

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Possible People Information

Person Overview

SHAWN T ANDREATTA

342 E 14TH ST E

SILVERTON, CO 81433 | SAN JUAN County

Phone Number(s):

970-385-7412

387-5771

SSN:

524-49-XXXX - issued in CO in 1986-1987

DOB:

03/XX/1972 (Age: 48)

Date of Birth Summary

Date of Birth	Source
03/XX/1972 (Age: 48)	Address Historical #1 | Address Historical #2 | People Find | People Historical | People Household

SSN Summary

SSN	Source
524-49-XXXX - issued in CO in 1986-1987	People Find | People Historical #1 | People Historical #2

Name Variations

Name	Source
SHAWN ANDREATTA	Address Historical #1 | Address Historical #2 | Address Historical #3 | Address Historical #4 | People Find
S ANDREATTA	People Find
STG SHAWN ANDREATTA RD	People Historical

Addresses

Address
342 E 14TH ST E, SILVERTON, CO 81433 | SAN JUAN County

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Reported 01/01/1993 - 07/13/2020

By Motor Vehicle 02/22/2008 - 07/13/2020	Motor Vehicle #1 | Motor Vehicle #2 | Motor Vehicle #3 | Motor Vehicle #4 | Motor Vehicle #5
By People Find 01/24/2003 - 01/24/2003	People Find
By People Historical 01/01/1993 - 12/31/1993	People Historical

PO BOX 682, SILVERTON, CO 81433-0682 | SAN JUAN County

Reported 01/01/1993 - 07/13/2020

By Motor Vehicle 09/25/2018 - 08/05/2019	Motor Vehicle #1 | Motor Vehicle #2 | Motor Vehicle #3 | Motor Vehicle #4 | Motor Vehicle #5
By People Household 01/01/1993 - 02/29/2012	People Household
By People Find 01/24/2003 - 01/24/2003	People Find
By People Historical 01/01/1993 - 12/31/1996	People Historical #1 | People Historical #2

420 ALPINE DR, DURANGO, CO 81301-8213 | LA PLATA County

Reported 01/01/1997 - 03/25/2020

By Motor Vehicle 09/16/2011 - 01/20/2020	Motor Vehicle #1 | Motor Vehicle #2 | Motor Vehicle #3 | Motor Vehicle #4
By People Household 01/01/1997 - 05/31/2017	People Household
By People Find 10/07/2005 - 10/07/2005	People Find
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2 | Real Property Deeds #3 | Real Property Deeds #4 | Real Property Deeds #5 | Real Property Deeds #6
By Real Property Tax Assessor	Real Property Tax Assessor #1 | Real Property Tax Assessor #2 | Real Property Tax Assessor #3
By Voters Registration	Voters Registration

1424 MINERAL ST, SILVERTON, CO 81433 | SAN JUAN County

Reported 09/16/2011 - 09/06/2019

By Motor Vehicle 09/06/2019 - 09/06/2019	Motor Vehicle #1 | Motor Vehicle #2
By Address Historical	Address Historical

10 SUNRIDGE LN, DURANGO, CO 81301-5870 | LA PLATA County

Reported 06/15/2004 - 02/21/2018

By Motor Vehicle 02/21/2018 - 02/21/2018	Motor Vehicle #1 | Motor Vehicle #2
By People Find 06/15/2004 - 06/15/2004	People Find
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2 | Real Property Deeds #3

342 E 14TH ST PO BOX 682, SILVERTON, CO 81433-0682 | SAN JUAN County

Reported 03/03/2006 - 07/12/2006

By Motor Vehicle 03/03/2006 - 07/12/2006	Motor Vehicle #1 | Motor Vehicle #2

1212 AVENIDA DEL SOL APT 611, DURANGO, CO 81301-4961 | LA PLATA County

Reported 01/24/2003 - 01/24/2003

By People Find 01/24/2003 - 01/24/2003	People Find

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29 MOSS ROAD TRL, DURANGO, CO 81303-7247 | LA PLATA County	
Reported 01/24/2003 - 01/24/2003	
By People Find 01/24/2003 - 01/24/2003	People Find
196 CANYON DR, DURANGO, CO 81301-8465 | LA PLATA County	
Reported 01/24/2003 - 01/24/2003	
By People Find 01/24/2003 - 01/24/2003	People Find
907 COUNTY ROAD 207 TRLR 12218, DURANGO, CO 81301-7750 | LA PLATA County	
Reported N/A	
By Address Historical	Address Historical
BILLINGS ST UNIT E24, SILVERTON, CO 81433 | SAN JUAN County	
Reported N/A	
By Address Historical	Address Historical
PO BOX O, SILVERTON, CO 81433 | SAN JUAN County	
Reported N/A	
By Address Historical	Address Historical

Voter Registrations

Political Party	Last Voted Date	Confidence Score	View Full Text
DEMOCRAT	11/06/2018	99%	Full-Text

Phone Numbers

Phone	Source
970-385-7412	People Find | People Household
387-5771	People Find

Possible Asset Information

Real Property Tax Assessor Records

Property Address	Assessed Total Value	Tax Year	Confidence Score	View Full Text
420 ALPINE DR DURANGO, CO 81301-8213	$17,860.00	2018	99%	Full-Text
420 ALPINE DR DURANGO, CO 81301-8213	$17,950.00	2011	99%	Full-Text
		2008	99%	Full-Text

Real Property Transactions

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Property Address	Sale Price	Mortgage Amount	Recording Date	Confidence Score	View Full Text
420 ALPINE DR DURANGO, CO 81301-8213		$175,500.00	07/06/2020	99%	Full-Text
420 ALPINE DR DURANGO, CO 81301-8213		$250,000.00	02/17/2009	99%	Full-Text
420 ALPINE DR DURANGO, CO 81301-8213		$253,000.00	09/19/2006	99%	Full-Text
420 ALPINE DR DURANGO, CO 81301-8213		$260,000.00	11/15/2005	99%	Full-Text
10 SUNRIDGE CT DURANGO, CO 81301-5868		$32,000.00	08/17/2004	98%	Full-Text
420 ALPINE DR DURANGO, CO 81301-8213	$68,000.00	$51,000.00	08/17/2004	99%	Full-Text
CO			2004	90%	Full-Text
10 SUNRIDGE CT DURANGO, CO 81301-5868		$155,200.00	09/08/2003	98%	Full-Text

Vehicle Registrations

Year	Make	Model	Registration Date	Confidence Score	View Full Text
Current Motor Vehicles					
2009	NISSAN	FRONTIER	04/27/2017	99%	Full-Text
1964	SHA		08/14/2009	97%	Full-Text
2006	TOYOTA	COROLLA	09/18/2008	97%	Full-Text
2001	SLE		08/13/2007	98%	Full-Text
1969	PLYMOUTH	SATELLITE	05/29/1996	99%	Full-Text
Historical Motor Vehicles					
2004	TOYOTA	TACOMA	11/06/2017	97%	Full-Text
1988	TOYOTA	4RUNNER	03/11/2013	97%	Full-Text
1954	DESCR OF WIL		07/27/1999	97%	Full-Text
1995	TOYOTA	CAMRY		99%	Full-Text

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Possible Adverse Information

UCC Records

Debtor	Creditor	Confidence Score	View Full Text
ANDREATTA, CORINA J	THE FIRST NATIONAL BANK OF DURANGO	99%	Full-Text

Possible Business & Employment

Corporate Records & Business Registrations

Business Name	Business Address	Confidence Score	View Full Text
ENERGY CHECK, LLC	420 ALPINE DRIVE DURANGO, CO 81301	97%	Full-Text

Full-Text Documents

All Full-Text Documents

Voter Registrations (1)

To Summary

Voter Registration Record

Source Information

Information Current Through:	01/07/2020
Database Last Updated:	05/22/2020
Update Frequency:	ANNUAL
Current Date:	08/12/2020

Voter History

General 2006	VOTED
General 2012	VOTED
Other 2008	VOTED
Last Date Voted:	11/06/2018

Name and Personal Information

Name:	SHAWN T ANDREATTA
Address:	420 ALPINE DR

Demographic Information

Date of Birth:	/XX1972
Age:	45-54
Gender:	MALE
Political Party:	DEMOCRAT

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	DURANGO, CO 81301-8213
Home Phone:	970-749-5590

Registration Information

Voter Identification Number:	4748400
Motor Voter Identification Number:	200032346
Registration Date:	04/12/2012

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Historical People Records (2)

To Summary

People Historical

Individual Information

Name:	ANDREATTA, SHAWN T
SSN:	524-49-XXXX
Date of Birth:	03/XX/1972
On File Since:	03/01/1993

Historical Address Information

Address 1:	PO BOX 682 SILVERTON, CO 81433-0682
Address Last Reported:	1993
Address Type:	PO BOX ADDRESS
Address 2:	342 E 14TH SILVERTON, CO 81433
Address Last Reported:	1993

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To Summary

People Historical

Individual Information

Name:	ANDREATTA, STG SHAWN, RD
SSN:	524-49-XXXX
On File Since:	06/01/1996

Historical Address Information

Address 1:	PO BOX 682 SILVERTON, CO 81433-0682
Address Last Reported:	1996

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Address Type:	PO BOX ADDRESS

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Historical Address Records (4)

To Summary

Address Historical

Individual Information

Name:	ANDREATTA, SHAWN

Historical Address Information

Address:	907 COUNTY ROAD 207 TRLR 12218 DURANGO, CO 81301-7750

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To Summary

Address Historical

Individual Information

Name:	ANDREATTA, SHAWN
Date of Birth:	03/XX/1972

Historical Address Information

Address:	PO BOX O SILVERTON, CO 81433

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To Summary

Address Historical

Individual Information

Name:	ANDREATTA, SHAWN

Historical Address Information

Address:	1424 MINERAL ST SILVERTON, CO 81433

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To Summary

Address Historical

Individual Information

Historical Address Information

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Name:	ANDREATTA, SHAWN	**Address:**	BILLINGS ST E24 SILVERTON, CO 81433
Date of Birth:	03/XX/1972		

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People Find Records (1)

To Summary

People Finder - Historic Tracker Record

Source Information

Information Current Through:	06/30/2020
Database Last Updated:	07/07/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	TRANS UNION

Individual Information

Name:	ANDREATTA, SHAWN T
Also Known As:	ANDREATTA, S ANDREATTA, SHAWN
SSN:	524-49-XXXX
Date of Birth:	03/XX/1972
Historic Phone Number:	387-5771
On File Since:	03/01/1993

Last Known Address Information

Current Address:	420 ALPINE DR DURANGO, CO 81301-8213
Phone Number 1:	970-385-7412
Address First Reported:	10/07/2005

Other Address Information

Previous Address:	196 CANYON DR DURANGO, CO 81301-8465
Address First Reported:	01/24/2003
Previous Address:	PO BOX 682 SILVERTON, CO 81433-0682
Address First Reported:	01/24/2003
Previous Address:	1212 AVENIDA DEL SOL 611 DURANGO, CO 81301-4961
Address First Reported:	01/24/2003
Previous Address:	29 MOSS ROAD TR DURANGO, CO 81303-7247
Address First Reported:	01/24/2003
Previous Address:	342 14TH SILVERTON, CO 81433
Address First Reported:	01/24/2003

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Previous Address:	10 SUNRIDGE CT DURANGO, CO 81301-5868
Address First Reported:	06/15/2004

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Real Property Tax Assessor Records (3)

To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	ANDREATTA SHAWN T
	ANDREATTA CORI J
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Phone:	970-385-7412

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290150010014
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY
Lot Size:	404672
Lot Acreage:	9.2900
Legal Description:	HERMOSA 19974

Tax Assessment Information

Tax Year:	2008
Calculated Land Value:	$30,179.00
Calculated Total Value:	$30,179.00
Market Land Value:	$30,179.00
Market Total Value:	$30,179.00

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Valuation Method:	MARKET
Tax Amount:	$272.96
Tax Code Area:	101

Building/Improvement Characteristics

Total Area:	404672

Last Market Sale Information

Sale Date:	02/09/2004
Seller Name:	OWNER RECORD
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Number of Parcels:	2
Recording Date:	2004
Document Number:	143301

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	ANDREATTA SHAWN T
	ANDREATTA CORINA J
Ownership Rights:	JOINT TENANCY
Absentee Owner:	OWNER OCCUPIED
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R418767
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	59677
Lot Acreage:	1.3700
Subdivision:	ALPINE SHADOWS #2
Legal Description:	SUBDIVISION: ALPINE SHADOWS #2 BLOCK: 0 LOT: 58 ALPINE SHADOWS UNIT NO. 2 420 ALPINE DR DURANGO 81301
Lot Number:	58

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$78,900.00
Calculated Improvement Value:	$169,110.00
Calculated Total Value:	$248,010.00
Assessed Land Value:	$5,680.00
Assessed Improvement Value:	$12,180.00
Assessed Total Value:	$17,860.00
Market Land Value:	$78,900.00
Market Improvement Value:	$169,110.00
Market Total Value:	$248,010.00
Valuation Method:	MARKET
Tax Amount:	$695.52
Tax Code Area:	1007

Building/Improvement Characteristics

Building Type:	SINGLE FAMILY
Number of Buildings:	1
Year Built:	20050000
Total Area:	59677RES IMPRV LAND
Living Square Feet:	1496
Number of Bedrooms:	3
Number of Bathrooms:	2.00
Full Baths:	2
Garage Type:	ATTACHED FINISHED GARAGE

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Style/Shape:	CONVENTIONAL
Heat:	FORCED AIR

Last Market Sale Information

Sale Date:	08/17/2004
Seller Name:	MEHLMAN BEVERLY J
Sale Price:	$68,000.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Mortgage Amount:	$51,000.00
Mortgage Loan Type:	CONVENTIONAL
Mortgage Deed Type:	DEED OF TRUST
Lender Name:	FIRST NAT'L BK/DURANGO
Recording Date:	08/17/2004
Document Number:	891371
Title Company:	LAND TITLE GUARANTEE

Previous Transaction Information

Number of Parcels:	Y Y

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2018
Calculated Land Value:	$87,600.00
Calculated Improvement Value:	$181,100.00
Calculated Total Value:	$268,700.00
Assessed Total Value:	$19,210.00
Assessor's Parcel Number:	R418767
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 2.	
Tax Year:	2017
Calculated Land Value:	$78,900.00
Calculated Improvement Value:	$169,110.00
Calculated Total Value:	$248,010.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Assessed Total Value:	$17,860.00
Assessor's Parcel Number:	R418767
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 3.	
Tax Year:	2016
Calculated Land Value:	$72,900.00
Calculated Improvement Value:	$157,010.00
Calculated Total Value:	$229,910.00
Assessed Total Value:	$18,300.00
Assessor's Parcel Number:	R418767
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$72,900.00
Calculated Improvement Value:	$157,010.00
Calculated Total Value:	$229,910.00
Assessed Total Value:	$18,300.00
Assessor's Parcel Number:	R418767
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$72,900.00
Calculated Improvement Value:	$140,810.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Total Value:	$213,710.00
Assessed Total Value:	$17,010.00
Assessor's Parcel Number:	R418767
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 6.	
Tax Year:	2013
Calculated Land Value:	$72,900.00
Calculated Improvement Value:	$140,810.00
Calculated Total Value:	$213,710.00
Assessed Total Value:	$17,010.00
Assessor's Parcel Number:	R418767
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 7.	
Tax Year:	2012
Calculated Land Value:	$76,800.00
Calculated Improvement Value:	$148,690.00
Calculated Total Value:	$225,490.00
Assessed Total Value:	$17,950.00
Assessor's Parcel Number:	R418767
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	ANDREATTA SHAWN T
	ANDREATTA CORINA J
Ownership Rights:	JOINT TENANCY
Absentee Owner:	OWNER OCCUPIED
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Phone:	970-385-7412

Property Information

County:	LA PLATA
Assessor's Parcel Number:	5671-322-02-004
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	59677
Lot Acreage:	1.3700
Subdivision:	ALPINE SHADOWS 02
Legal Description:	SUBDIVISION: ALPINE SHADOWS #2 BLOCK: 0 LOT: 58 ALPINE SHADOWS UNIT NO. 2 420 ALPINE DR DURANGO 81301
Lot Number:	58

Tax Assessment Information

Tax Year:	2011
Calculated Land Value:	$76,800.00
Calculated Improvement Value:	$148,690.00

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Total Value:	$225,490.00
Assessed Land Value:	$6,110.00
Assessed Improvement Value:	$11,840.00
Assessed Total Value:	$17,950.00
Market Land Value:	$76,800.00
Market Improvement Value:	$148,690.00
Market Total Value:	$225,490.00
Valuation Method:	MARKET
Tax Amount:	$565.00
Tax Code Area:	1007

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	20050000
Total Area:	59677
Living Square Feet:	1496
Style/Shape:	TRADITIONAL

Last Market Sale Information

Sale Date:	08/17/2004
Seller Name:	MEHLMAN BEVERLY J
Sale Price:	$68,000.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Mortgage Amount:	$51,000.00
Mortgage Loan Type:	CONVENTIONAL
Mortgage Deed Type:	DEED OF TRUST
Lender Name:	FIRST NAT'L BK/DURANGO
Number of Parcels:	2
Recording Date:	08/17/2004
Document Number:	891371
Title Company:	LAND TITLE GUARANTEE

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2010
Calculated Land Value:	$76,800.00
Calculated Improvement Value:	$148,690.00
Calculated Total Value:	$225,490.00

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Assessed Total Value:	$17,950.00
Assessor's Parcel Number:	5671-322-02-004
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 2.	
Tax Year:	2010
Calculated Land Value:	$101,100.00
Calculated Improvement Value:	$141,860.00
Calculated Total Value:	$242,960.00
Assessed Total Value:	$19,340.00
Assessor's Parcel Number:	5671-322-02-004
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 3.	
Tax Year:	2009
Calculated Land Value:	$101,100.00
Calculated Improvement Value:	$141,860.00
Calculated Total Value:	$242,960.00
Assessed Total Value:	$19,340.00
Assessor's Parcel Number:	5671-322-02-004
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 4.	
Tax Year:	2008
Calculated Land Value:	$98,100.00
Calculated Improvement Value:	$134,930.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Total Value:	$233,030.00
Assessed Total Value:	$18,550.00
Assessor's Parcel Number:	5671-322-02-004
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 5.	
Tax Year:	2007
Calculated Land Value:	$98,100.00
Calculated Improvement Value:	$134,930.00
Calculated Total Value:	$233,030.00
Assessed Total Value:	$18,550.00
Assessor's Parcel Number:	5671-32-2-02-004
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 6.	
Tax Year:	2006
Calculated Land Value:	$98,100.00
Calculated Total Value:	$98,100.00
Assessed Total Value:	$28,450.00
Assessor's Parcel Number:	5671-32-2-02-004
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 7.	
Tax Year:	2003
Calculated Land Value:	$38,080.00
Calculated Total Value:	$38,080.00

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Assessed Total Value:	$3,030.00
Assessor's Parcel Number:	5671-32-2-02-004
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	10 SUNRIDGE CT DURANGO, CO 81301-5868

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Real Property Transactions (8)

To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	CORINA J & SHAWN T ANDREATTA
Ownership Rights:	JOINT TENANTS
Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR

Transaction Information

Transaction Date:	06/30/2020
Deed Type:	TRUST DEED/ MORTGAGE
Document Type:	DEED OF TRUST
Type of Transaction:	REFINANCE
Mortgage Amount:	$175,500.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	30 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	06/30/2020
Mortgage Due Date:	07/01/2050
Lender Name:	UNITED WHOLESALE MTGUNITED WHOLESALE MTG
Address:	PONTIAC, MI 48341
Recording Date:	07/06/2020
Document Number:	1173515

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-8213	**Refinance Loan:**	LOAN TO VALUE IS MORE THAN 50%

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R418767
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	2072

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

End of Document

To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	SHAWN T ANDREATTA
Additional Owner:	ANDREATTA SHAWN T & CORINA J
Property Address:	10 SUNRIDGE CT

Transaction Information

Transaction Date:	08/11/2004
Deed Type:	DEED OF TRUST
Type of Transaction:	REFINANCE
Mortgage Amount:	$32,000.00
Mortgage Type:	CONVENTIONAL
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	08/11/2004
Interest Rate:	ADJUSTABLE
Lender Name:	FIRST NAT'L BK/ DURANGO
Address:	DURANGO, CO 81302
Recording Date:	08/17/2004
Document Number:	891282
Equity Loan:	SECOND

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-5868
Mailing Address:	10 SUNRIDGE CT DURANGO, CO 81301-5868

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R418104
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

End of Document

To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	SHAWN T ANDREATTA
Owner Relationship:	HUSBAND/WIFE
Ownership Rights:	JOINT TENANTS

Transaction Information

Transaction Date:	09/02/2003
Seller Name:	ANDREATTA SHAWN T
Deed Type:	QUIT CLAIM
Type of Transaction:	NOMINAL
Mortgage Amount:	$155,200.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	30 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	08/26/2003
Mortgage Due Date:	09/01/2033
Interest Rate:	FIXED
Lender Name:	HOMECOMINGS FIN'L NETWORK INC

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Additional Owner:	ANDREATTA SHAWN T & CORINA J	**Address:**	DALLAS, TX 75254
Owner Relationship:	HUSBAND/WIFE	**Recording Date:**	09/08/2003
Ownership Rights:	JOINT TENANTS	**Document Number:**	867032
Property Address:	10 SUNRIDGE CT DURANGO, CO 81301-5868	**Title Company:**	COLORADO LAND TITLE CO
Mailing Address:	10 SUNRIDGE CT DURANGO, CO 81301-5868	**Construction Type:**	RESALE
		InterFamily Transaction:	YES
		Purchase Payment:	MORTGAGE
		2nd Mortgage Amount:	$15,800.00
		2nd Mortgage Type:	CONVENTIONAL
		2nd Mortgage Deed Type:	DEED OF TRUST

Property Information

County:	LA PLATA
Property Type:	RESIDENTIAL CONDOMINIUM

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

End of Document
To Summary
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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	11/09/2005
Deed Type:	DEED OF TRUST
Type of Transaction:	CONSTRUCTION LOAN
Mortgage Amount:	$260,000.00
Mortgage Deed Type:	CONSTRUCTION DEED OF TRUST
Mortgage Date:	11/09/2005
Interest Rate:	ADJUSTABLE
Lender Name:	FIRST NAT'L BK/ DURANGO
Address:	DURANGO, CO 81302

Owner Information

Owner(s):	SHAWN T & CORINA J ANDREATTA

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Additional Owner:	ANDREATTA SHAWN T	**Recording Date:**	11/15/2005
Additional Owner:	ANDREATTA CORINA J	**Document Number:**	922483
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213	**Construction Loan:**	YES
		Refinance Loan:	LOAN TO VALUE IS MORE THAN 50%
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213		

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R418767
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary
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Real Property Transaction Record

Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	02/09/2004
Seller Name:	OWNER RECORD
Deed Type:	GRANT DEED
Document Type:	DEED
Type of Transaction:	RESALE
Recording Date:	2004
Document Number:	143301
Construction Type:	SALE IS A RE-SALE

Owner Information

Owner(s):	SHAWN T ANDREATTA

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Address:	CO

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290150010014
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	SHAWN T & CORINA J ANDREATTA
Owner Relationship:	HUSBAND AND WIFE
Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Additional Owner #1:	ANDREATTA SHAWN T
Owner Relationship:	HUSBAND/WIFE
Additional Owner #2:	ANDREATTA CORINA J
Property Address:	420 ALPINE DR

Transaction Information

Transaction Date:	02/11/2009
Deed Type:	TRUST DEED/ MORTGAGE
Document Type:	DEED OF TRUST
Type of Transaction:	REFINANCE
Mortgage Amount:	$250,000.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	30 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	02/11/2009
Mortgage Due Date:	03/01/2039
Lender Name:	WELLS FARGO BK NA
Address:	NEWARK, NJ 07101-4701
Recording Date:	02/17/2009
Document Number:	990801
	LAND TITLE GUARANTEE
Refinance Loan:	LOAN TO VALUE IS MORE THAN 50%

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	DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R418767
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary
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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	09/14/2006
Deed Type:	DEED OF TRUST
Type of Transaction:	REFINANCE
Mortgage Amount:	$253,000.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	30 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	09/14/2006
Mortgage Due Date:	10/01/2036
Lender Name:	HOMECOMINGS FIN'L NETWORK INC
Address:	DALLAS, TX 75254

Owner Information

Owner(s):	SHAWN T & CORINA J ANDREATTA
Owner Relationship:	HUSBAND/WIFE

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Additional Owner:	ANDREATTA SHAWN T	**Recording Date:**	09/19/2006
Owner Relationship:	HUSBAND/WIFE	**Document Number:**	942346
Additional Owner:	ANDREATTA CORINA J	**Title Company:**	LAND TITLE GUARANTEE
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213	**Refinance Loan:**	LOAN TO VALUE IS MORE THAN 50%
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213		

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R418767
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary
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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	08/17/2004
Seller Name:	MEHLMAN BEVERLY J
Sale Price:	$68,000.00
Deed Type:	GRANT DEED
Type of Transaction:	RESALE
Mortgage Amount:	$51,000.00
Mortgage Type:	CONVENTIONAL
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	08/17/2004

Owner Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Owner(s):	SHAWN T ANDREATTA	**Interest Rate:**	FIXED
Ownership Rights:	JOINT TENANTS	**Lender Name:**	FIRST NAT'L BK/ DURANGO
Additional Owner:	ANDREATTA SHAWN T & CORINA J	**Address:**	DURANGO, CO 81302
Ownership Rights:	JOINT TENANTS	**Recording Date:**	08/17/2004
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213	**Document Number:**	891371
		Title Company:	LAND TITLE GUARANTEE
Mailing Address:	10 SUNRIDGE CT DURANGO, CO 81301-5868	**Construction Type:**	RESALE
		Purchase Payment:	MORTGAGE

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R418767
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Vehicle Registrations (9)

To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

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Vehicle Information

VIN:	S23742
Vehicle Type:	UNKNOWN
Model Year:	1964
Make:	SHA
Body Style:	CAMP TRAILER

Registration Information

License Plate Number:	560RBH
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	560RBH
Previous Plate State:	CO
Registration Renewal Date:	08/05/2019
Expiration Date:	08/31/2020
Registrant(s) Since:	08/14/2009
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	08/05/2019
Expiration Date:	08/31/2020
Registrant(s) Since:	08/14/2009
Name:	CHARLA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

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Title Information:

Original Title Date:	08/14/2009
Title Number:	55E015300
Name:	SHAWN ANDREATTA
Interest:	OWNER
Title Transaction Date:	08/14/2009
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Name:	SHAWN ANDREATTA
Interest:	OWNER
Title Transaction Date:	08/14/2009
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Name:	CHARLA ANDREATTA
Interest:	OWNER
Title Transaction Date:	08/14/2009
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 1

Registration Renewal Date:	09/25/2018
Expiration Date:	08/31/2019
License Plate Number:	560RBH

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	560RBH
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	09/25/2018
Expiration Date:	08/31/2019
Name:	CHARLA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 2

Registration Renewal Date:	07/25/2017
Expiration Date:	08/31/2018
License Plate Number:	560RBH
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	560RBH
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	07/25/2017
Expiration Date:	08/31/2018
Name:	CHARLA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 3

Registration Renewal Date:	07/21/2016
Expiration Date:	08/31/2017
License Plate Number:	560RBH
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	560RBH
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	07/21/2016
Expiration Date:	08/31/2017
Name:	CHARLA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682

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County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 4

Registration Renewal Date:	07/31/2015
Expiration Date:	08/31/2016
License Plate Number:	560RBH
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	560RBH
Previous Plate State:	CO
Name:	CHARLA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 5

Registration Renewal Date:	08/12/2014
Expiration Date:	08/31/2015
License Plate Number:	560RBH
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	560RBH
Previous Plate State:	CO
Name:	CHARLA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433

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County:	SAN JUAN
Registration Renewal Date:	08/12/2014
Expiration Date:	08/31/2015
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 6

Registration Renewal Date:	07/29/2013
Expiration Date:	08/31/2014
License Plate Number:	560RBH
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	560RBH
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	07/29/2013
Expiration Date:	08/31/2014
Name:	CHARLA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST

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	SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 7

Registration Renewal Date:	08/20/2012
Expiration Date:	08/31/2013
License Plate Number:	560RBH
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	560RBH
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	08/20/2012
Expiration Date:	08/31/2013
Name:	CHARLA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 8

Registration Renewal Date:	07/27/2011
Expiration Date:	08/31/2012
License Plate Number:	560RBH
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	560RBH

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Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	07/27/2011
Expiration Date:	08/31/2012
Name:	CHARLA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 9

Registration Renewal Date:	07/28/2010
Expiration Date:	08/31/2011
License Plate Number:	560RBH
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	560RBH
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

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Registration Renewal Date:	07/28/2010
Expiration Date:	08/31/2011
Name:	CHARLA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 10

Registration Renewal Date:	08/14/2009
Expiration Date:	08/31/2010
License Plate Number:	560RBH
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	486FUR
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	08/14/2009
Expiration Date:	08/31/2010
Name:	CHARLA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433

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County:	SAN JUAN

Historical DMV Record 11

Registration Renewal Date:	12/01/2004
Expiration Date:	12/31/2005
License Plate Number:	486FUR
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	486FUR
Previous Plate State:	CO
Name:	GEORGE J. DUCHATEAU
Interest:	REGISTRANT
Mailing Address:	10 TOWN PLZ DURANGO, CO 81301-5104
County:	LA PLATA
Physical Address:	1245 ROOSA AVE DURANGO, CO 81301-4977
County:	LA PLATA
Registration Renewal Date:	12/01/2004
Expiration Date:	12/31/2005
Name:	GEORGE J. DUCHATEAU
Interest:	REGISTRANT
Mailing Address:	10 CAMINO DEL RIO DURANGO, CO 81301-5104
County:	LA PLATA
Physical Address:	1245 ROOSA AVE DURANGO, CO 81301-4977
County:	LA PLATA

Historical DMV Record 12

Title Transfer Date:	09/21/2001
Name:	STEVEN M. AGER
Interest:	OWNER
Mailing Address:	PO BOX 4465 4465 DURANGO, CO 81302-4465
County:	LA PLATA
Physical Address:	1588 COUNTY ROAD 204 DURANGO, CO 81301-8548

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County:	LA PLATA

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Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	1N6AD07W29C409273
Vehicle Type:	PASSENGER CAR
Model Year:	2009
Make:	NISSAN
Body Style:	CREW CAB LWB SW
Model/Series:	FRONTIER LE PRO 4X SE

Registration Information

License Plate Number:	QUN120
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	QUN120
Previous Plate State:	CO
Registration Renewal Date:	03/25/2020
Expiration Date:	03/31/2021
Registrant(s) Since:	04/27/2017
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Registration Renewal Date:	03/25/2020
Expiration Date:	03/31/2021
Registrant(s) Since:	04/27/2017
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 1

Registration Renewal Date:	02/21/2018
Expiration Date:	03/31/2019
License Plate Number:	QUN120
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	QUN120
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	10 SUNRIDGE CT DURANGO, CO 81301-5868
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Registration Renewal Date:	02/21/2018
Expiration Date:	03/31/2019
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical DMV Record 2

Registration Renewal Date:	04/27/2017
Expiration Date:	03/31/2018
License Plate Number:	QUN120
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	BPJ3300
Previous Plate State:	AZ
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Registration Renewal Date:	04/27/2017
Expiration Date:	03/31/2018
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 3

Title Transfer Date:	04/07/2016
Name:	SHAWN T. ANDREATTA
Interest:	OWNER
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Title Transfer Date:	04/07/2016

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Name:	CORINA J. ANDREATTA
Interest:	OWNER
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Title Transfer Date:	03/29/2016
Name:	SHAWN T. ANDREATTA CORINA
Interest:	OWNER
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 4

Registration Renewal Date:	01/06/2014
Expiration Date:	12/31/2014
License Plate Number:	934BWJ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	934BWJ
Previous Plate State:	CO
Name:	MARK ALAN CADE
Interest:	REGISTRANT
Mailing Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD
Physical Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD
Registration Renewal Date:	01/06/2014
Expiration Date:	12/31/2014
Name:	LARA MARIE CADE
Interest:	REGISTRANT
Mailing Address:	4411 TANAGER TRL

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	BROOMFIELD, CO 80023-8809
County:	BROOMFIELD
Physical Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD

Historical DMV Record 5

Registration Renewal Date:	01/28/2013
Expiration Date:	12/31/2013
License Plate Number:	934BWJ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	934BWJ
Previous Plate State:	CO
Name:	MARK A. CADE
Interest:	REGISTRANT
Mailing Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD
Physical Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD
Registration Renewal Date:	01/28/2013
Expiration Date:	12/31/2013
Name:	LARA M. CADE
Interest:	REGISTRANT
Mailing Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD
Physical Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD

Historical DMV Record 6

Registration Renewal Date:	01/19/2012
Expiration Date:	12/31/2012
License Plate Number:	934BWJ
Issuing State:	CO
Plate Type:	PRIVATE

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Previous Plate Number:	934BWJ
Previous Plate State:	CO
Name:	LARA M. CADE
Interest:	REGISTRANT
Mailing Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD
Physical Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD
Registration Renewal Date:	01/19/2012
Expiration Date:	12/31/2012
Name:	MARK A. CADE
Interest:	REGISTRANT
Mailing Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD
Physical Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD

Historical DMV Record 7

Title Transfer Date:	04/13/2010
Name:	BELLCO CREDIT UNION
Interest:	LIEN HOLDER
Mailing Address:	PO BOX 6611 6611 GREENWOOD VLG, CO 80155-6611
County:	ARAPAHOE
Title Transfer Date:	04/13/2010
Name:	MARK A. CADE
Interest:	OWNER
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Physical Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Title Transfer Date:	04/13/2010

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Name:	LARA M. CADE
Interest:	OWNER
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Physical Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Title Transfer Date:	04/13/2010
Name:	MARK ALAN CADE
Interest:	OWNER
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Physical Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Title Transfer Date:	04/13/2010
Name:	LARA MARIE CADE
Interest:	OWNER
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Physical Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD

Historical DMV Record 8

Registration Renewal Date:	10/12/2009
Expiration Date:	10/31/2010
License Plate Number:	934BWJ
Issuing State:	CO
Plate Type:	PRIVATE
Name:	MARK ALAN CADE
Interest:	REGISTRANT
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Physical Address:	5583 STONEYBROOK DR

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	BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Registration Renewal Date:	10/12/2009
Expiration Date:	10/31/2010
Name:	LARA MARIE CADE
Interest:	REGISTRANT
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Physical Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Registration Renewal Date:	10/12/2009
Expiration Date:	10/31/2010
Name:	MARK A. CADE
Interest:	REGISTRANT
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Physical Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Registration Renewal Date:	10/12/2009
Expiration Date:	10/31/2010
Name:	LARA M. CADE
Interest:	REGISTRANT
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Physical Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Title Transfer Date:	08/20/2009
Name:	PREMIERE MEMBERS C U
Interest:	LIEN HOLDER
Mailing Address:	5495 ARAPAHOE AVE BOULDER, CO 80303-1261
County:	BOULDER

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Title Transfer Date:	08/20/2009
Name:	MARK A. CADE
Interest:	OWNER
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Physical Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Title Transfer Date:	08/20/2009
Name:	LARA M. CADE
Interest:	OWNER
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Physical Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD

End of Document

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	RM27H9G169658
Vehicle Type:	PASSENGER CAR
Model Year:	1969
Make:	PLYMOUTH
Body Style:	CONVERTIBLE
Model/Series:	SATELLITE ROAD RUNNER

Registration Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

License Plate Number:	ZE0063
Issuing State:	CO
Previous Plate Number:	ZE0063
Previous Plate State:	CO
Registration Renewal Date:	07/13/2020
Expiration Date:	07/31/2021
Registrant(s) Since:	05/29/1996
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 1

Registration Renewal Date:	08/05/2019
Expiration Date:	07/31/2020
License Plate Number:	ZE0063
Issuing State:	CO
Previous Plate Number:	ZE0063
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 2

Registration Renewal Date:	08/07/2018
Expiration Date:	07/31/2019
License Plate Number:	ZE0063
Issuing State:	CO

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Previous Plate Number:	ZE0063
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 3

Registration Renewal Date:	07/05/2017
Expiration Date:	07/31/2018
License Plate Number:	ZE0063
Issuing State:	CO
Previous Plate Number:	ZE0063
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 4

Registration Renewal Date:	07/29/2016
Expiration Date:	07/31/2017
License Plate Number:	ZE0063
Issuing State:	CO
Previous Plate Number:	ZE0063
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 5

Registration Renewal Date:	08/07/2015
Expiration Date:	07/31/2016
License Plate Number:	ZE0063
Issuing State:	CO
Previous Plate Number:	ZE0063
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 6

Registration Renewal Date:	07/23/2014
Expiration Date:	07/31/2015
License Plate Number:	ZE0063
Issuing State:	CO
Previous Plate Number:	ZE0063
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433

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County:	SAN JUAN

Historical DMV Record 7

Registration Renewal Date:	08/05/2013
Expiration Date:	07/31/2014
License Plate Number:	ZE0063
Issuing State:	CO
Previous Plate Number:	ZE0063
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 8

Registration Renewal Date:	08/13/2012
Expiration Date:	07/31/2013
License Plate Number:	ZE0063
Issuing State:	CO
Previous Plate Number:	ZE0063
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 9

Registration Renewal Date:	07/14/2011
Expiration Date:	07/31/2012

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License Plate Number:	ZE0063
Issuing State:	CO
Previous Plate Number:	ZE0063
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 10

Registration Renewal Date:	07/13/2010
Expiration Date:	07/31/2011
License Plate Number:	ZE0063
Issuing State:	CO
Previous Plate Number:	ZE0063
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 11

Registration Renewal Date:	07/29/2009
Expiration Date:	07/31/2010
License Plate Number:	ZE0063
Issuing State:	CO
Previous Plate Number:	ZE0063
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 12

Registration Renewal Date:	08/15/2008
Expiration Date:	07/31/2009
License Plate Number:	ZE0063
Issuing State:	CO
Previous Plate Number:	ZE0063
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 13

Registration Renewal Date:	07/11/2007
Expiration Date:	07/31/2008
License Plate Number:	ZE0063
Issuing State:	CO
Previous Plate Number:	ZE0063
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN

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Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 14

Registration Renewal Date:	07/12/2006
Expiration Date:	07/31/2007
License Plate Number:	ZE0063
Issuing State:	CO
Previous Plate Number:	ZE0063
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	07/12/2006
Expiration Date:	07/31/2007
License Plate Number:	ZE0063
Issuing State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST PO BOX 682 682 SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 15

Title Transfer Date:	07/27/1999
Name:	SHAWN T. ANDREATTA
Interest:	OWNER

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Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	1NXBR32E86Z720622
Vehicle Type:	PASSENGER CAR
Model Year:	2006
Make:	TOYOTA
Body Style:	SEDAN 4D 5P
Model/Series:	COROLLA CE LE S

Registration Information

License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Registration Renewal Date:	09/06/2019
Expiration Date:	09/30/2020
Registrant(s) Since:	09/18/2008
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	09/06/2019
Expiration Date:	09/30/2020
Registrant(s) Since:	09/18/2008
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Title Information:

Original Title Date:	09/18/2008
Title Number:	55E015110
Name:	CORINA J. ANDREATTA
Interest:	OWNER
Title Transaction Date:	09/18/2008
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 1

Registration Renewal Date:	10/19/2018
Expiration Date:	09/30/2019
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	10/19/2018
Expiration Date:	09/30/2019
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 2

Registration Renewal Date:	09/08/2017
Expiration Date:	09/30/2018
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	09/08/2017
Expiration Date:	09/30/2018
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 3

Registration Renewal Date:	10/06/2016
Expiration Date:	09/30/2017
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	10/06/2016
Expiration Date:	09/30/2017
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 4

Registration Renewal Date:	08/28/2015
Expiration Date:	09/30/2016
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Previous Plate Number:	956SCA
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 5

Registration Renewal Date:	10/15/2014
Expiration Date:	09/30/2015
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	10/15/2014
Expiration Date:	09/30/2015
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 6

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Registration Renewal Date:	10/07/2013
Expiration Date:	09/30/2014
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	10/07/2013
Expiration Date:	09/30/2014
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 7

Registration Renewal Date:	10/01/2012
Expiration Date:	09/30/2013
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	10/01/2012
Expiration Date:	09/30/2013
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 8

Registration Renewal Date:	09/16/2011
Expiration Date:	09/30/2012
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	09/16/2011
Expiration Date:	09/30/2012
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	SAN JUAN
Registration Renewal Date:	09/16/2011
Expiration Date:	09/30/2012
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 9

Registration Renewal Date:	09/08/2010
Expiration Date:	09/30/2011
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	09/08/2010
Expiration Date:	09/30/2011
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	09/08/2010

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Expiration Date:	09/30/2011
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 10

Registration Renewal Date:	09/29/2009
Expiration Date:	09/30/2010
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	09/29/2009
Expiration Date:	09/30/2010
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 11

Registration Renewal Date:	09/18/2008

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Expiration Date:	09/30/2009
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	014YKJ
Previous Plate State:	AZ
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	09/18/2008
Expiration Date:	09/30/2009
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	09/18/2008
Expiration Date:	09/30/2009
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Title Transfer Date:	09/18/2008
Name:	SHAWN ANDREATTA
Interest:	OWNER
Mailing Address:	420 ALPINE DR

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	DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Title Transfer Date:	09/18/2008
Name:	SHAWN T. ANDREATTA
Interest:	OWNER
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	654FA211883
Vehicle Type:	UNKNOWN
Model Year:	1954
Make:	DESCR OF WIL
Body Style:	2D

Registration Information

License Plate Number:	72F44
Issuing State:	CO
Plate Type:	ANTIQUE
Registration Renewal Date:	07/27/1999
Expiration Date:	09/30/1999

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Registrant(s) Since:	07/27/1999
Name:	JOHN ELLIOTT
Interest:	REGISTRANT
Mailing Address:	6396 S PIERCE CT LITTLETON, CO 80123-3600
County:	JEFFERSON
Physical Address:	6396 S PIERCE CT LITTLETON, CO 80123-3600
County:	JEFFERSON

Title Information:

Original Title Date:	08/23/1999
Title Number:	55E012484
Name:	SHAWN ANDREATTA
Interest:	OWNER
Title Transaction Date:	08/23/1999
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	5A8MF141112002632
Vehicle Type:	UNKNOWN
Model Year:	2001

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Make:	SLE
Body Style:	TRAILER UTILIT

Registration Information

License Plate Number:	017PBJ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	017PBJ
Previous Plate State:	CO
Registration Renewal Date:	01/20/2020
Expiration Date:	02/28/2021
Registrant(s) Since:	08/13/2007
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Title Information:

Original Title Date:	02/05/2002
Title Number:	20E423964
Name:	SHAWN T. ANDREATTA
Interest:	OWNER
Title Transaction Date:	02/27/2002
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 1

Registration Renewal Date:	02/25/2019
Expiration Date:	02/29/2020
License Plate Number:	017PBJ
Issuing State:	CO

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Plate Type:	TRAILER
Previous Plate Number:	017PBJ
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 2

Registration Renewal Date:	02/21/2018
Expiration Date:	02/28/2019
License Plate Number:	017PBJ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	017PBJ
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	10 SUNRIDGE CT DURANGO, CO 81301-5868
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 3

Registration Renewal Date:	02/23/2017
Expiration Date:	02/28/2018
License Plate Number:	017PBJ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	017PBJ
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	10 SUNRIDGE CT DURANGO, CO 81301-5868
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 4

Registration Renewal Date:	03/08/2016
Expiration Date:	02/28/2017
License Plate Number:	017PBJ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	017PBJ
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	10 SUNRIDGE CT DURANGO, CO 81301-5868
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 5

Registration Renewal Date:	02/09/2015
Expiration Date:	02/28/2016
License Plate Number:	017PBJ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	017PBJ
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213

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County:	LA PLATA

Historical DMV Record 6

Registration Renewal Date:	02/13/2014
Expiration Date:	02/28/2015
License Plate Number:	017PBJ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	017PBJ
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 7

Registration Renewal Date:	02/20/2013
Expiration Date:	02/28/2014
License Plate Number:	017PBJ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	017PBJ
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 8

Registration Renewal Date:	02/23/2012
Expiration Date:	02/28/2013

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

License Plate Number:	017PBJ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	017PBJ
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 9

Registration Renewal Date:	02/14/2011
Expiration Date:	02/28/2012
License Plate Number:	017PBJ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	017PBJ
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 10

Registration Renewal Date:	02/05/2010
Expiration Date:	02/28/2011
License Plate Number:	017PBJ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	017PBJ
Previous Plate State:	CO

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 11

Registration Renewal Date:	02/18/2009
Expiration Date:	02/28/2010
License Plate Number:	017PBJ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	017PBJ
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 12

Registration Renewal Date:	02/25/2008
Expiration Date:	02/28/2009
License Plate Number:	017PBJ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	017PBJ
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

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Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 13

Registration Renewal Date:	08/13/2007
Expiration Date:	02/28/2008
License Plate Number:	017PBJ
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	705FUR
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 14

Registration Renewal Date:	02/17/2006
Expiration Date:	02/28/2007
License Plate Number:	705FUR
Issuing State:	CO
Plate Type:	TRAILER
Previous Plate Number:	705FUR
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Registration Renewal Date:	02/17/2006
Expiration Date:	02/28/2007

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License Plate Number:	705FUR
Issuing State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 15

Title Transfer Date:	02/05/2002
Name:	SHAWN T. ANDREATTA
Interest:	OWNER
Mailing Address:	10 SUNRIDGE LN DURANGO, CO 81301-5870
County:	LA PLATA
Physical Address:	10 SUNRIDGE LN DURANGO, CO 81301-5870
County:	LA PLATA

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	JT4RN62D4J0223073
Vehicle Type:	PASSENGER CAR
Model Year:	1988
Make:	TOYOTA
Body Style:	SUV 2D

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Model/Series:	4RUNNER DLX

Registration Information

License Plate Number:	713YYB
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	713YYB
Previous Plate State:	CO
Registration Renewal Date:	05/22/2014
Expiration Date:	05/31/2015
Registrant(s) Since:	03/11/2013
Name:	JACOB ROBERT PALMER
Interest:	REGISTRANT
Mailing Address:	534 PARK AVE UNIT A PAGOSA SPGS, CO 81147-0017
County:	ARCHULETA
Physical Address:	534 PARK AVE A PAGOSA SPGS, CO 81147-0017
County:	ARCHULETA

Historical DMV Record 1

Registration Renewal Date:	03/11/2013
Expiration Date:	03/31/2014
License Plate Number:	713YYB
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	125ANP
Previous Plate State:	CO
Name:	JACOB ROBERT PALMER
Interest:	REGISTRANT
Mailing Address:	534 PARK AVE PAGOSA SPGS, CO 81147-0017
County:	ARCHULETA
Physical Address:	534 PARK AVE PAGOSA SPGS, CO 81147-0017
County:	ARCHULETA
Title Transfer Date:	03/11/2013
Name:	JACOB ROBERT PALMER
Interest:	OWNER

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	534 PARK AVE PAGOSA SPGS, CO 81147-0017
County:	ARCHULETA
Physical Address:	534 PARK AVE PAGOSA SPGS, CO 81147-0017
County:	ARCHULETA

Historical DMV Record 2

Registration Renewal Date:	03/05/2012
Expiration Date:	02/28/2013
License Plate Number:	125ANP
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	125ANP
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 3

Registration Renewal Date:	03/29/2011
Expiration Date:	02/28/2012
License Plate Number:	125ANP
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	125ANP
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 4

Registration Renewal Date:	03/04/2010
Expiration Date:	02/28/2011
License Plate Number:	125ANP
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	125ANP
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 5

Registration Renewal Date:	03/05/2009
Expiration Date:	02/28/2010
License Plate Number:	125ANP
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	125ANP
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical DMV Record 6

Registration Renewal Date:	02/22/2008
Expiration Date:	02/28/2009
License Plate Number:	125ANP
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	125ANP
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 7

Registration Renewal Date:	03/13/2007
Expiration Date:	02/28/2008
License Plate Number:	125ANP
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	125ANP
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 8

Registration Renewal Date:	03/03/2006

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Expiration Date:	02/28/2007
License Plate Number:	125ANP
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	125ANP
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	03/03/2006
Expiration Date:	02/28/2007
License Plate Number:	125ANP
Issuing State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST PO BOX 682 682 SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 9

Registration Renewal Date:	03/10/2005
Expiration Date:	02/28/2006
License Plate Number:	125ANP
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	125ANP
Previous Plate State:	CO
Name:	SHAWN ANDREATTA

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 10

Title Transfer Date:	02/09/2001
Name:	SHAWN T. ANDREATTA
Interest:	OWNER
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Title Transfer Date:	02/09/2001
Name:	SHAWN ANDREATTA
Interest:	OWNER
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

End of Document
To Summary
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Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	5TEWN72N04Z442280
Vehicle Type:	PASSENGER CAR
Model Year:	2004
Make:	TOYOTA
Body Style:	XTRA CAB 2D
Model/Series:	TACOMA LIMITED SR5

Registration Information

License Plate Number:	SPO784
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	SPO784
Previous Plate State:	CO
Registration Renewal Date:	10/23/2019
Expiration Date:	11/30/2020
Registrant(s) Since:	11/06/2017
Name:	JUSTIN POWELL
Interest:	REGISTRANT
Mailing Address:	3305 E 5TH AVE DURANGO, CO 81301-6007
County:	LA PLATA
Physical Address:	3305 E 5TH AVE DURANGO, CO 81301-6007
County:	LA PLATA

Title Information:

Original Title Date:	11/06/2017
Title Number:	20E644933
Name:	JUSTIN POWELL
Interest:	OWNER
Title Transaction Date:	11/06/2017
Mailing Address:	3305 E 5TH AVE DURANGO, CO 81301-6007
County:	LA PLATA
Physical Address:	3305 E 5TH AVE

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-6007
County:	LA PLATA

Historical DMV Record 1

Registration Renewal Date:	11/06/2017
Expiration Date:	11/30/2018
License Plate Number:	SPO784
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	706XZH
Previous Plate State:	CO
Name:	JUSTIN POWELL
Interest:	REGISTRANT
Mailing Address:	3305 E 5TH AVE DURANGO, CO 81301-6007
County:	LA PLATA
Physical Address:	3305 E 5TH AVE DURANGO, CO 81301-6007
County:	LA PLATA
Registration Renewal Date:	05/01/2017
Expiration Date:	05/31/2018
License Plate Number:	706XZH
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	706XZH
Previous Plate State:	CO
Name:	SHAWN ANDREATTA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Registration Renewal Date:	05/01/2017
Expiration Date:	05/31/2018
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 2

Registration Renewal Date:	05/02/2016
Expiration Date:	05/31/2017
License Plate Number:	706XZH
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	706XZH
Previous Plate State:	CO
Name:	SHAWN ANDREATTA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 3

Registration Renewal Date:	05/20/2015
Expiration Date:	05/31/2016
License Plate Number:	706XZH
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	706XZH
Previous Plate State:	CO
Name:	SHAWN ANDREATTA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical DMV Record 4

Registration Renewal Date:	05/05/2014
Expiration Date:	05/31/2015
License Plate Number:	706XZH
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	706XZH
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Registration Renewal Date:	05/05/2014
Expiration Date:	05/31/2015
Name:	CORINA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 5

Registration Renewal Date:	05/08/2013
Expiration Date:	05/31/2014
License Plate Number:	706XZH
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	457PCE
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Registration Renewal Date:	05/08/2013
Expiration Date:	05/31/2014
Name:	CORINA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 6

Title Transfer Date:	05/14/2012
Name:	SHAWN T. ANDREATTA
Interest:	OWNER
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Title Transfer Date:	05/14/2012
Name:	CORINA ANDREATTA
Interest:	OWNER
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Title Transfer Date:	05/14/2012
Name:	SHAWN ANDREATTA
Interest:	OWNER
Mailing Address:	420 ALPINE DR

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Registration Renewal Date:	02/24/2012
Expiration Date:	02/28/2013
License Plate Number:	457PCE
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	457PCE
Previous Plate State:	CO
Name:	PATRICK J. DEHERRERA
Interest:	REGISTRANT
Mailing Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023
County:	MESA
Physical Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023
County:	MESA

Historical DMV Record 7

Registration Renewal Date:	06/15/2010
Expiration Date:	07/31/2011
License Plate Number:	457PCE
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	457PCE
Previous Plate State:	CO
Name:	PATRICK J. DEHERRERA
Interest:	REGISTRANT
Mailing Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023
County:	MESA
Physical Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023
County:	MESA

Historical DMV Record 8

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Registration Renewal Date:	07/29/2009
Expiration Date:	07/31/2010
License Plate Number:	457PCE
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	457PCE
Previous Plate State:	CO
Name:	PATRICK J. DEHERRERA
Interest:	REGISTRANT
Mailing Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023
County:	MESA
Physical Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023
County:	MESA

Historical DMV Record 9

Registration Renewal Date:	07/03/2008
Expiration Date:	07/31/2009
License Plate Number:	457PCE
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	457PCE
Previous Plate State:	CO
Name:	PATRICK J. DEHERRERA
Interest:	REGISTRANT
Mailing Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023
County:	MESA
Physical Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023
County:	MESA
Title Transfer Date:	02/29/2008
Name:	COLORAMO FEDERAL CR. UN
Interest:	LIEN HOLDER
Mailing Address:	516 28 RD GRAND JCT, CO 81501-6555
County:	MESA
Title Transfer Date:	02/29/2008

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Name:	PATRICK J. DEHERRERA
Interest:	OWNER
Mailing Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023
County:	MESA
Physical Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023
County:	MESA

Historical DMV Record 10

Registration Renewal Date:	04/12/2007
Expiration Date:	04/30/2008
License Plate Number:	457PCE
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	767XMN
Previous Plate State:	OK
Name:	PATRICK J. DEHERRERA
Interest:	REGISTRANT
Mailing Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81503-1023
County:	MESA
Physical Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81503-1023
County:	MESA
Title Transfer Date:	02/28/2007
Name:	PATRICK J. DEHERRERA
Interest:	OWNER
Mailing Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81503-1023
County:	MESA
Physical Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81503-1023
County:	MESA
Title Transfer Date:	02/28/2007
Name:	WELLS FARGO AUTO FINANCE INC.
Interest:	LIEN HOLDER
Mailing Address:	PO BOX 924827 924827

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	HOUSTON, TX 77292-4827
County:	HARRIS
Physical Address:	1061 GRAND NATIONAL BLVD FORT WORTH, TX 76179-7372
County:	TARRANT

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	JT2SK12E5S0337325
Vehicle Type:	PASSENGER CAR
Model Year:	1995
Make:	TOYOTA
Body Style:	SEDAN 4D 5P
Model/Series:	CAMRY LE

Title Information:

Original Title Date:	04/16/2015
Title Number:	32E422626
Name:	MARION CHRIS
Interest:	OWNER
Title Transaction Date:	04/16/2015
Mailing Address:	24639 ROAD F CORTEZ, CO 81321-9107
County:	MONTEZUMA
Physical Address:	24639 ROAD F CORTEZ, CO 81321-9107
County:	MONTEZUMA

Historical DMV Record 1

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Registration Renewal Date:	10/26/2009
Expiration Date:	10/31/2010
License Plate Number:	261UZH
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	207HJJ
Previous Plate State:	CO
Name:	MARION CHRIS OLEN
Interest:	REGISTRANT
Mailing Address:	24639 ROAD F CORTEZ, CO 81321-9107
County:	MONTEZUMA
Physical Address:	24639 ROAD F CORTEZ, CO 81321-9107
County:	MONTEZUMA
Title Transfer Date:	10/26/2009
Name:	MARION CHRIS OLEN
Interest:	OWNER
Mailing Address:	24639 ROAD F CORTEZ, CO 81321-9107
County:	MONTEZUMA
Physical Address:	24639 ROAD F CORTEZ, CO 81321-9107
County:	MONTEZUMA

Historical DMV Record 2

Registration Renewal Date:	02/22/2008
Expiration Date:	02/28/2009
License Plate Number:	207HJJ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	207HJJ
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	02/22/2008
Expiration Date:	02/28/2009
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	02/22/2008
Expiration Date:	02/28/2009
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 3

Registration Renewal Date:	03/13/2007
Expiration Date:	02/28/2008
License Plate Number:	207HJJ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	207HJJ
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	03/13/2007
Expiration Date:	02/28/2008
Name:	CORINA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 4

Registration Renewal Date:	03/03/2006
Expiration Date:	02/28/2007
License Plate Number:	207HJJ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	207HJJ
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	03/03/2006
Expiration Date:	02/28/2007
License Plate Number:	207HJJ
Issuing State:	CO
Name:	CORINA ANDREATTA
Interest:	REGISTRANT

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	1424 MINERAL ST PO BOX 682 682 SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 5

Registration Renewal Date:	03/10/2005
Expiration Date:	02/28/2006
License Plate Number:	207HJJ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	207HJJ
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	03/10/2005
Expiration Date:	02/28/2006
Name:	CORINA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 6

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Title Transfer Date:	02/18/2004
Name:	SHAWN ANDREATTA
Interest:	OWNER
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Title Transfer Date:	02/18/2004
Name:	SHAWN T. ANDREATTA
Interest:	OWNER
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Title Transfer Date:	02/18/2004
Name:	CORINA ANDREATTA
Interest:	OWNER
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

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UCC Records (1)

To Summary

Uniform Commercial Code Report

Source Information

Debtor Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Information Current Through:	07/04/2020
Database Last Updated:	08/12/2020
Update Frequency:	WEEKLY
Current Date:	08/12/2020
Source:	CO SECRETARY OF STATE

Debtor(s):	ANDREATTA, CORINA J 420 ALPINE DRIVE DURANGO, CO 81301
D&B DUNS:	61-736-9561
Debtor(s):	ANDREATTA, SHAWN T 420 ALPINE DR DURANGO, CO 81301

Filing Information

Filing Number:	2005F114808
Filing Date:	11/10/2005
Filing Time:	12:08PM
Filing Type:	ORIGINAL
Filing Office:	SECRETARY OF STATE/ UCC DIVISION 1560 BROADWAY DENVER, CO 80202

Secured Party or Creditor Information

Secured Party(s):	THE FIRST NATIONAL BANK OF DURANGO PO BOX 2910 DURANGO, CO 81302

Collateral Information

Collateral Type:	BUILDING MATERIALS AND PROCEEDS
Collateral Type:	FIXTURES AND PROCEEDS
Collateral Type:	GENERAL INTANGIBLE(S) AND PROCEEDS
Collateral Type:	ACCOUNT(S) AND PROCEEDS

The preceding public record data is for information purposes only and is not the official record. Certified copies can only be obtained from the official source.

The public record items reported above may have been paid, terminated, vacated or released prior to today's date.

Order Documents

Call Westlaw CourtExpress at 1-877-DOC-RETR (1-877-362-7387) for on-site manual retrieval of documents related to this or other matters. Additional charges apply.

End of Document

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Corporate Records & Business Registrations (1)

To Summary

Corporate Records & Business Registrations

Source Information

Information Current Through:	08/04/2020
Database Last Updated:	08/12/2020
Update Frequency:	WEEKLY
Current Date:	08/12/2020
Source:	AS REPORTED BY THE SECRETARY OF STATE OR OTHER OFFICIAL SOURCE

Company Information

Name:	ENERGY CHECK, LLC
Address:	420 ALPINE DRIVE DURANGO, CO 81301
D&B DUNS:	03-935-7909

Filing Information

Identification Number:	20091267456
Filing Date:	05/13/2009
State of Incorporation:	COLORADO
Status:	GOOD STANDING
Business Type:	LIMITED LIABILITY COMPANY
Address Type:	BUSINESS
Where Filed:	DEPT OF STATE/ DIVISION OF COMMERCIAL RECORDINGS
	1560 BROADWAY

Registered Agent Information

Name:	SHAWN ANDREATTA
Address:	420 ALPINE DRIVE DURANGO, CO 81301

Amendment Information

Amendments:	07/24/2019 MISCELLANEOUS FILE REPORT
	07/24/2018 MISCELLANEOUS FILE REPORT
	07/24/2017 MISCELLANEOUS FILE REPORT
	06/29/2016 MISCELLANEOUS FILE REPORT
	07/30/2015 MISCELLANEOUS FILE REPORT
	05/21/2014 MISCELLANEOUS FILE REPORT
	07/11/2013 MISCELLANEOUS FILE REPORT
	04/24/2012 MISCELLANEOUS FILE REPORT

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

DENVER, CO 80202	
	06/05/2011 MISCELLANEOUS FILE REPORT
	07/10/2010 MISCELLANEOUS FILE REPORT
	05/13/2009 MISCELLANEOUS FORM A LIMITED LIABILITY COMPANY (LLC)
The preceding public record data is for information purposes only and is not the official record. Certified copies can only be obtained from the official source.	
The public record items reported above may have been paid, terminated, vacated or released prior to today's date.	

Order Documents

Call Westlaw CourtExpress at 1-877-DOC-RETR (1-877-362-7387) for on-site manual retrieval of documents related to this or other matters. Additional charges apply.

End of Document

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Household Records (2)

To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Latitude/Longitude:	-107.772487/37.263656
Residence Type:	SINGLE FAMILY DWELLING
Address First Reported:	1997
Reported Occupation:	STUDENT

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Head of Household Information

Head of Household:	MR SHAWN T ANDREATTA
Gender:	MALE
Date of Birth:	03/XX/1972
Name/Address Confirmed:	05/2017
Marital Status:	MARRIED

Additional Individuals In This Household

Name:	MS CORINA J ANDREATTA
Gender:	FEMALE
Date of Birth:	11/XX/1972
Name/Address Confirmed:	05/2017

End of Document

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To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	PO BOX 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Latitude/Longitude:	37.766411/-107.675394
Address First Reported:	1993

Head of Household Information

Head of Household:	MRS CHARLA J ANDREATTA
Gender:	FEMALE
Date of Birth:	08/XX/1954
Name/Address Confirmed:	02/2015
Marital Status:	SINGLE

End of Document

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Possible Relatives & Household Members

Household Records

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420 ALPINE DR DURANGO, CO 81301-8213 | Full-Text

Address First Reported:	1997	Confidence Score:	99
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MR SHAWN T ANDREATTA	Head of Household	03/XX/1972	05/2017
MS CORINA J ANDREATTA	Other	11/XX/1972	05/2017

PO BOX 682 SILVERTON, CO 81433-0682 | Full-Text

Address First Reported:	1993	Confidence Score:	99
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MRS CHARLA J ANDREATTA	Head of Household	08/XX/1954	02/2015

Possible Named Parties

People Associations

JUSTIN POWELL	PATRICK J DEHERRERA
LARA M CADE	JOHN ELLIOTT
BEVERLY J MEHLMAN	AUDRA J BOWEN
CHRIS O MARION	STEVEN M AGER
GEORGE J DUCHATEAU	JACOB PALMER
DAKOTAH ANDREATTA	CHARLA ANDREATTA
CORINA J ANDREATTA	MARK A CADE
JOHN M ELLIOTT	BECKY J HERRON
DADKOTAH ANDREATTA	

Business Associations

ENERGY CHECK, LLC

No Documents Found

No Documents Were Found In These Sources

Aircraft Records	Bankruptcy Records
BusFindUS	Conceal & Carry Weapons Permits

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Death Records	Divorce Records
DMI	Email Address Records
Executive Bios	FBN/DBA
FEIN	Healthcare Licenses
Hunting & Fishing Licenses	Lawsuit Records
Liens & Judgments	Marriage Records
New Movers Records	Political Donors
Professional Licenses	Real Property Pre-Foreclosure Records
Stock	Unclaimed Assets
Watercraft Records	

Permissible Uses and FCRA Disclaimer

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GLB - For use in complying with a properly authorized civil, criminal, or regulatory investigation, subpoena, or summons by federal, state, or local authorities.
VOTERS - Use in connection with a non-commercial purpose.
Skip Tracing for Consumer Collections Declaration - Are you using this product for skip tracing related to consumer debt collection? - No

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Possible People Information 2
Person Overview 2
Date of Birth Summary 2
SSN Summary 2
Name Variations 2
Addresses 2
Voter Registrations 6
Political Donors 6
Phone Numbers 6
Possible Asset Information 6
Real Property Tax Assessor Records 6
Real Property Transactions 8
Vehicle Registrations 10
Possible Business & Employment 10
Professional Licenses 10
Corporate Records & Business Registrations 10
Full-Text Documents 11
All Full-Text Documents 11
Possible Relatives & Household Members 153
Household Records 153
Possible Named Parties 154
People Associations 154
Business Associations 155
No Documents Found 155
No Documents Were Found In These Sources 155
Permissible Uses and FCRA Disclaimer 155
Permissible Uses 155

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Possible People Information

Person Overview

STEVEN R LEISLE

10224 EAGLE FEATHER PL

LITTLETON, CO 80125-8309 | DOUGLAS County

Phone Number(s):

970-387-0111

970-387-5100

904-285-4747

SSN:

149-56-XXXX - issued in NJ in 1972-1973

DOB:

05/XX/1958 (Age: 62)

Date of Birth Summary

Date of Birth	Source
05/1958 (Age: 62)	Address Historical #1 | Address Historical #2 | People Find | People Household #1 | People Household #2 | People Household #3

SSN Summary

SSN	Source
149-56-XXXX - issued in NJ in 1972-1973	People Find | People Historical

Name Variations

Name	Source
STEVE LEISLE	Address Historical | People Historical
STEVEN LEISLE	Address Historical | People Find | People Household
R LEISLE STEVEN	People Find

Addresses

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Address	
10224 EAGLE FEATHER PL, LITTLETON, CO 80125-8309 | DOUGLAS County	
Reported 05/17/2019 - 05/28/2020	
By Motor Vehicle	Motor Vehicle
PO BOX 444, SILVERTON, CO 81433-0444 | SAN JUAN County	
Reported 07/31/2007 - 11/12/2019	
By Motor Vehicle 08/01/2008 - 08/19/2019	Motor Vehicle #1 | Motor Vehicle #2 | Motor Vehicle #3 | Motor Vehicle #4 | Motor Vehicle #5
By People Find 10/02/2015 - 10/02/2015	People Find
By People Household 01/01/2010 - 04/30/2012	People Household
By Professional License	Professional License
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2 | Real Property Deeds #3 | Real Property Deeds #4 | Real Property Deeds #5 | Real Property Deeds #6 | Real Property Deeds #7 | Real Property Deeds #8 | Real Property Deeds #9 | Real Property Deeds #10 | Real Property Deeds #11
By Real Property Tax Assessor	Real Property Tax Assessor #1 | Real Property Tax Assessor #2 | Real Property Tax Assessor #3 | Real Property Tax Assessor #4 | Real Property Tax Assessor #5 | Real Property Tax Assessor #6 | Real Property Tax Assessor #7 | Real Property Tax Assessor #8 | Real Property Tax Assessor #9 | Real Property Tax Assessor #10 | Real Property Tax Assessor #11 | Real Property Tax Assessor #12 | Real Property Tax Assessor #13 | Real Property Tax Assessor #14 | Real Property Tax Assessor #15 | Real Property Tax Assessor #16 | Real Property Tax Assessor #17 | Real Property Tax Assessor #18 | Real Property Tax Assessor #19 | Real Property Tax Assessor #20 | Real Property Tax Assessor #21
By Voters Registration	Voters Registration
1038 EMPIRE ST, SILVERTON, CO 81433 | SAN JUAN County	
Reported 08/28/2006 - 11/12/2019	
By People Household 01/01/2009 - 11/30/2018	People Household
By Motor Vehicle 08/28/2006 - 10/23/2017	Motor Vehicle #1 | Motor Vehicle #2 | Motor Vehicle #3 | Motor Vehicle #4 | Motor Vehicle #5
By Address Historical	Address Historical
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2 | Real Property Deeds #3
By Voters Registration	Voters Registration
1038 BLAIR ST, SILVERTON, CO 81433 | SAN JUAN County	

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Reported 01/01/2001 - 08/19/2019

By Motor Vehicle 08/19/2019 - 08/19/2019	Motor Vehicle
By People Household 01/01/2001 - 11/30/2012	People Household
By Real Property Tax Assessor	Real Property Tax Assessor

PO BOX 901098, FORT WORTH, TX 76101-2098 | TARRANT County

Reported 10/23/2017 - 10/23/2017

By Motor Vehicle 10/23/2017 - 10/23/2017	Motor Vehicle

60 FORREST GROVES LN, DURANGO, CO 81301-8354 | LA PLATA County

Reported 01/01/2013 - 01/31/2013

By People Household 01/01/2013 - 01/31/2013	People Household
By Real Property Deeds	Real Property Deeds

PO BOX 827, SILVERTON, CO 81433-0827 | SAN JUAN County

Reported 01/01/1992 - 10/31/2012

By People Household 01/01/1992 - 10/31/2012	People Household
By Motor Vehicle 08/27/2004 - 08/28/2006	Motor Vehicle #1 | Motor Vehicle #2 | Motor Vehicle #3
By People Find 05/15/2001 - 05/15/2001	People Find
By Real Property Deeds	Real Property Deeds

11038 EMPIRE ST, SILVERTON, CO 81433 | SAN JUAN County

Reported 08/27/2004 - 07/31/2007

By Motor Vehicle 08/27/2004 - 08/27/2004	Motor Vehicle

1038 EMPIRE ST PO BOX 827, SILVERTON, CO 81433-0827 | SAN JUAN County

Reported 08/28/2006 - 08/28/2006

By Motor Vehicle 08/28/2006 - 08/28/2006	Motor Vehicle

11038 EMPIRE ST PO BOX 827, SILVERTON, CO 81433-0827 | SAN JUAN County

Reported 08/27/2004 - 08/27/2004

By Motor Vehicle 08/27/2004 - 08/27/2004	Motor Vehicle

201 27 CT CI, DURANGO, CO 81301-6151 | LA PLATA County

Reported 07/18/2001 - 07/18/2001

By People Find 07/18/2001 - 07/18/2001	People Find

27 CT CI, DURANGO, CO 81301-6151 | LA PLATA County

Reported 07/18/2001 - 07/18/2001

By People Find 07/18/2001 - 07/18/2001	People Find

7916 COUNTY ROAD 203, DURANGO, CO 81301-8643 | LA PLATA County

Reported 01/01/1991 - 11/13/2000

By People Find 11/13/2000 - 11/13/2000	People Find
By People Historical 01/01/1991 - 12/31/1991	People Historical

32 FORREST GROVES LN, DURANGO, CO 81301-8354 | LA PLATA County

Reported 08/01/2000 - 08/01/2000

By People Find 08/01/2000 - 08/01/2000	People Find

301 E 32ND ST, DURANGO, CO 81301-6011 | LA PLATA County

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Reported 01/01/2000 - 05/04/2000	
By Motor Vehicle 05/04/2000 - 05/04/2000	Motor Vehicle #1 | Motor Vehicle #2
By People Find 01/01/2000 - 01/01/2000	People Find
By Address Historical	Address Historical #1 | Address Historical #2
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2
By Real Property Tax Assessor	Real Property Tax Assessor #1 | Real Property Tax Assessor #2
301 E 2ND AVE, DURANGO, CO 81301 | LA PLATA County	
Reported 01/01/1992 - 12/31/1992	
By People Historical 01/01/1992 - 12/31/1992	People Historical
By People Find 10/01/1992 - 10/01/1992	People Find
301 W 32ND ST, DURANGO, CO 81301-4210 | LA PLATA County	
Reported 01/01/1991 - 12/31/1991	
By People Historical 01/01/1991 - 12/31/1991	People Historical
369 N SEA LAKE LN, PONTE VEDRA BEACH, FL 32082-4756 | SAINT JOHNS County	
Reported N/A	
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2
By Real Property Tax Assessor	Real Property Tax Assessor
40 FORREST GROVES LN # 2, DURANGO, CO 81301-8354 | LA PLATA County	
Reported N/A	
By Real Property Deeds	Real Property Deeds
By Real Property Tax Assessor	Real Property Tax Assessor #1 | Real Property Tax Assessor #2 | Real Property Tax Assessor #3
402 W 28TH ST, DURANGO, CO 81301-4108 | LA PLATA County	
Reported N/A	
By Real Property Deeds	Real Property Deeds
By Real Property Tax Assessor	Real Property Tax Assessor #1 | Real Property Tax Assessor #2 | Real Property Tax Assessor #3
735 E 3RD ST, DURANGO, CO 81301-5758 | LA PLATA County	
Reported N/A	
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2
By Real Property Tax Assessor	Real Property Tax Assessor #1 | Real Property Tax Assessor #2
1043 MINERAL ST, SILVERTON, CO 81433-5082 | SAN JUAN County	
Reported N/A	
By Real Property Deeds	Real Property Deeds
By Real Property Tax Assessor	Real Property Tax Assessor
7 MINERAL ST, SILVERTON, CO 81433 | SAN JUAN County	
Reported N/A	
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2 | Real Property Deeds #3
By Real Property Tax Assessor	Real Property Tax Assessor #1 | Real Property Tax Assessor #2

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27 COUNTY ROAD 202, DURANGO, CO 81301-8632 | LA PLATA County	
Reported N/A	
By People Historical	People Historical
4522 COUNTY ROAD 2, SILVERTON, CO 81433 | SAN JUAN County	
Reported N/A	
By Real Property Deeds	Real Property Deeds
By Real Property Tax Assessor	Real Property Tax Assessor
4522 COUNTY RD 2, SILVERTON, CO 81433	
Reported N/A	
By Real Property Deeds	Real Property Deeds
PO BOX 848, SILVERTON, CO 81433-0848 | SAN JUAN County	
Reported N/A	
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2
PONTE VEDRA BEACH, FL 32082 | SAINT JOHNS County	
Reported N/A	
By Real Property Deeds	Real Property Deeds

Voter Registrations

Political Party	Last Voted Date	Confidence Score	View Full Text
NON DECLARED	11/06/2018	99%	Full-Text

Political Donors

Last Party Contributed To	Date of Last Contribution	Confidence Score	View Full Text
	03/31/2001	65%	Full-Text

Phone Numbers

Phone	Source
970-387-0111	People Find | People Household
970-387-5100	People Find
904-285-4747	People Find
259-2446	People Find | People Historical
259-2426	People Historical

Possible Asset Information

Real Property Tax Assessor Records

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Address	Assessed Total Value	Tax Year	Confidence Score	View Full Text
301 E 32ND ST DURANGO, CO 81301-6011	$18,570.00	2018	99%	Full-Text
1038 BLAIR ST SILVERTON, CO 81433	$12,870.00	2018	99%	Full-Text
735 E 3RD ST DURANGO, CO 81301-5758	$26,520.00	2018	99%	Full-Text
7 MINERAL ST SILVERTON, CO 81433	$27,550.00	2018	70%	Full-Text
1043 MINERAL ST SILVERTON, CO 81433-5082	$14,014.00	2018	77%	Full-Text
40 FORREST GROVES LN DURANGO, CO 81301-8354	$13,590.00	2018	99%	Full-Text
	$13,800.00	2018	99%	Full-Text
4522 COUNTY ROAD 2 SILVERTON, CO 81433	$14,848.00	2018	95%	Full-Text
402 W 28TH ST DURANGO, CO 81301-4108	$26,200.00	2018	99%	Full-Text
402 W 28TH ST DURANGO, CO 81301-4108	$24,990.00	2018	99%	Full-Text
7 MINERAL ST CO	$31,923.00	2017	65%	Full-Text
	$14,080.00	2012	99%	Full-Text
	$280.00	2012	99%	Full-Text
	$1,500.00	2012	99%	Full-Text
	$280.00	2012	99%	Full-Text
40 FORREST GROVES LN 2	$14,010.00	2012	99%	Full-Text

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Property Address	Assessed Total Value	Tax Year	Confidence Score	View Full Text
DURANGO, CO 81301-8354				
	$1,500.00	2011	99%	Full-Text
402 W 28TH ST DURANGO, CO 81301-4108	$22,760.00	2011	99%	Full-Text
301 E 32ND ST DURANGO, CO 81301-6011	$16,900.00	2011	99%	Full-Text
735 E 3RD ST DURANGO, CO 81301-5758	$24,580.00	2011	99%	Full-Text
40 FORREST GROVES LN 2 DURANGO, CO 81301-8354	$14,010.00	2011	99%	Full-Text
	$14,080.00	2011	99%	Full-Text
	$280.00	2011	99%	Full-Text
		2008	99%	Full-Text
		2008	99%	Full-Text
		2008	99%	Full-Text

Real Property Transactions

Property Address	Sale Price	Mortgage Amount	Recording Date	Confidence Score	View Full Text
301 E 32ND ST DURANGO, CO 81301-6011			12/30/2019	99%	Full-Text
7 MINERAL ST SILVERTON, CO 81433	$73,100.00		10/15/2018	70%	Full-Text
1038 EMPIRE ST SILVERTON, CO 85254	$2,500.00		09/07/2018	94%	Full-Text
MINERAL ST SILVERTON, CO 81433	$85,100.00	$25,000.00	08/18/2017	80%	Full-Text

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Property Address	Sale Price	Mortgage Amount	Recording Date	Confidence Score	View Full Text
4522 COUNTY ROAD 2 SILVERTON, CO 81433	$57,100.00		11/13/2014	88%	Full-Text
4522 COUNTY ROAD 2 SILVERTON, CO 81433	$39,100.00		08/23/2013	99%	Full-Text
CO 32082			01/16/2013	97%	Full-Text
60 FORREST GROVES LN DURANGO, CO 81301-8354			01/16/2013	99%	Full-Text
735 E 3RD ST DURANGO, CO 81301-5758		$147,500.00	11/13/2012	80%	Full-Text
1043 MINERAL ST SILVERTON, CO 81433	$90,000.00		12/27/2011	99%	Full-Text
402 W 28TH ST DURANGO, CO 81301-4108		$180,000.00	08/23/2011	74%	Full-Text
CO	$8,500.00		07/14/2010	85%	Full-Text
1038 EMPIRE ST SILVERTON, CO 81433		$93,200.00	07/02/2009	99%	Full-Text
MINERAL ST SILVERTON, CO 81433	$50,300.00	$40,000.00	06/26/2009	99%	Full-Text
SILVERTON, CO 81433	$97,500.00		05/31/2007	85%	Full-Text
CO	$10,000.00		2006	85%	Full-Text
CO			11/17/2005	85%	Full-Text
CO			2005	82%	Full-Text
40 FORREST GROVES LN UNIT 2			2005	74%	Full-Text

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Property Address	Sale Price	Mortgage Amount	Recording Date	Confidence Score	View Full Text
DURANGO, CO 81301-8354					
735 E 3RD ST DURANGO, CO 81301-5758		$80,000.00	07/15/2004	80%	Full-Text
301 E 32ND ST DURANGO, CO 81301-6011		$90,000.00	06/02/2004	99%	Full-Text
CO			2004	85%	Full-Text
CO	$30,800.00		2003	85%	Full-Text
CO				85%	Full-Text
CO				85%	Full-Text
CO	$12,000.00			85%	Full-Text

Vehicle Registrations

Year	Make	Model	Registration Date	Confidence Score	View Full Text
Current Motor Vehicles					
2018	MINI	COOPER COUNTRYMAN	05/08/2018	99%	Full-Text
2002	SUZ		08/16/2002	97%	Full-Text
1997	TOYOTA	T100	09/08/2000	99%	Full-Text
1976	FORD	F250	09/30/1998	99%	Full-Text
1992	HMD		10/04/1996	99%	Full-Text
1992	SUZUKI	DR650SN	05/06/1996	99%	Full-Text
Historical Motor Vehicles					
2008	SUBARU	IMPREZA	08/17/2018	99%	Full-Text

Possible Business & Employment

Professional Licenses

License Type	License Issue Date	License Expiration Date	Confidence Score	View Full Text
ELECTRICAL APPRENTICE	06/08/2011		99%	Full-Text

Corporate Records & Business Registrations

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Business Name	Business Address	Confidence Score	View Full Text
SILVERTON REALTY, INC.	PO BOX 444 SILVERTON, CO 81433	99%	Full-Text

Full-Text Documents

All Full-Text Documents

Voter Registrations (1)

To Summary

Voter Registration Record

Source Information

Information Current Through:	01/07/2020
Database Last Updated:	05/22/2020
Update Frequency:	ANNUAL
Current Date:	08/12/2020

Voter History

General 2006	VOTED
General 2012	VOTED
Other 2011	VOTED
General 2010	VOTED
Other 2009	VOTED
Other 2008	VOTED
Last Date Voted:	11/06/2018

Name and Personal Information

Name:	STEVEN R LEISLE
Address:	1038 EMPIRE ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Demographic Information

Date of Birth:	/XX1958
Age:	55-64
Gender:	MALE
Political Party:	NON DECLARED

Registration Information

Voter Identification Number:	4748785
Motor Voter Identification Number:	815870
Registration Date:	09/07/2001

End of Document

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Political Donors (1)

To Summary

Political Donor Record

Source Information

Date Acquired:	09/21/2015
Database Last Updated:	05/22/2018
Update Frequency:	EVERY OTHER YEAR
Current Date:	08/12/2020

Name and Personal Information

Name:	STEVE LEISLE
Address:	3206 MAIN AVE UNIT 1 DURANGO, CO 81301-4202

Donation Information

First Contribution Date:	03/31/2001
Amount:	$7.00
Last Contribution Date:	03/31/2001
Amount:	$7.00
Candidate/Committee/ PAC:	REALTOR ISSUES POLITICAL PAC (FKA) COLO. ASSOC. OF REALTORS ISSUES PAC (IPAC)

Contribution Totals

Total:	$7.00

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Historical People Records (2)

To Summary

People Historical

Individual Information

Name:	LEISLE, STEVEN R
SSN:	149-56-XXXX
On File Since:	04/01/1986
Phone Number 1:	259-2426

Additional Information

Phone Number 1:	259-2446

Historical Address Information

Address 1:	301 W 32ND ST DURANGO, CO 81301-4210
Address Last Reported:	1991
Address Type:	STREET OR RESIDENTIAL ADDRESS
Address 2:	7916 CR 203 DURANGO, CO 81301
Address Last Reported:	1991

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Address 3:	27 COUNTY ROAD 202 DURANGO, CO 81301-8632
Address Type:	STREET OR RESIDENTIAL ADDRESS

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To Summary

People Historical

Individual Information

Name:	LEISLE, STEVE
On File Since:	10/01/1992

Historical Address Information

Address 1:	301 E 2ND AV DURANGO, CO 81301
Address Last Reported:	1992

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Historical Address Records (3)

To Summary

Address Historical

Individual Information

Name:	LEISLE, STEVE

Historical Address Information

Address:	301 E 32ND ST DURANGO, CO 81301-6011

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To Summary

Address Historical

Individual Information

Name:	LEISLE, STEVEN
Date of Birth:	05/XX/1958

Historical Address Information

Address:	301 E 32ND ST DURANGO, CO 81301-6011

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To Summary

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Address Historical

Individual Information

Name:	LEISLE, STEVEN R
Date of Birth:	05/XX/1958

Historical Address Information

Address:	1038 EMPIRE ST SILVERTON, CO 81433

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People Find Records (1)

To Summary

People Finder - Historic Tracker Record

Source Information

Information Current Through:	06/30/2020
Database Last Updated:	07/07/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	TRANS UNION

Last Known Address Information

Current Address:	PO BOX 444 SILVERTON, CO 81433-0444
Phone Number 1:	970-387-0111
Phone Number 2:	904-285-4747
Address First Reported:	10/02/2015

Individual Information

Name:	LEISLE, STEVEN R
Also Known As:	STEVEN, R LEISLE LEISLE, STEVEN
SSN:	149-56-XXXX
Date of Birth:	05/XX/1958
Historic Phone Number:	259-2446
On File Since:	04/01/1986

Other Address Information

Previous Address:	27 COURT CI 201 DURANGO, CO 81301-6151
Phone Number 1:	970-387-5100
Address First Reported:	07/18/2001
Previous Address:	PO BOX 827 SILVERTON, CO 81433-0827
Address First Reported:	05/15/2001
Previous Address:	7916 COUNTY ROAD 203 DURANGO, CO 81301-8643
Address First Reported:	11/13/2000
Previous Address:	32 FORREST GROVES LN

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-8354
Address First Reported:	08/01/2000
Previous Address:	301 E 32ND ST DURANGO, CO 81301-6011
Address First Reported:	01/01/2000
Previous Address:	301 E 2ND AV DURANGO, CO 81301
Address First Reported:	10/01/1992

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Real Property Tax Assessor Records (26)

To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH
	LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R004365
Property Type:	CONDOMINIUM
Land Use:	CONDOMINIUM
Lot Size:	43560
Lot Acreage:	1.0000
Subdivision:	SILVER SPRUCE CONDO
Legal Description:	SUBDIVISION: SILVER SPRUCE CONDO UNIT: 1 DESC: ON LOT 6 OF SILVER SPRUCE S/D

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Lot Number:	6

Tax Assessment Information

Tax Year:	2012
Calculated Improvement Value:	$176,910.00
Calculated Total Value:	$176,910.00
Assessed Improvement Value:	$14,080.00
Assessed Total Value:	$14,080.00
Market Improvement Value:	$176,910.00
Market Total Value:	$176,910.00
Valuation Method:	MARKET
Tax Amount:	$460.84
Tax Code Area:	1121

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	19460000
Total Area:	43560
Living Square Feet:	1425
Style/Shape:	TRADITIONAL

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN R
	LEISLE DANIEL M
Property Address:	301 E 32ND ST

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R015642
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	8276
Lot Acreage:	0.1900
Subdivision:	ANIMAS CITY
Legal Description:	SUBDIVISION: ANIMAS CITY (DGO) BLOCK: 56 LOT: J AND:- LOT: THRU L AN ADD 301 E 32ND ST DURANGO 81301
Block Number:	56
Lot Number:	J

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$170,890.00
Calculated Improvement Value:	$87,070.00
Calculated Total Value:	$257,960.00
Assessed Land Value:	$12,300.00
Assessed Improvement Value:	$6,270.00
Assessed Total Value:	$18,570.00
Market Land Value:	$170,890.00
Market Improvement Value:	$87,070.00
Market Total Value:	$257,960.00
Valuation Method:	MARKET
Tax Amount:	$674.52
Tax Code Area:	1111

Building/Improvement Characteristics

Building Type:	SINGLE FAMILY
Number of Buildings:	1
Year Built:	19320000
Total Area:	8276RES IMPRV LAND
Living Square Feet:	654

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Number of Bedrooms:	1
Number of Bathrooms:	1.00
Full Baths:	1
Style/Shape:	CONVENTIONAL
Heat:	CONVECTION

Last Market Sale Information

Sale Date:	02/26/1998
Seller Name:	OWNER RECORD
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	1998
Document Number:	741523

Previous Transaction Information

Number of Parcels:	Y Y

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2018
Calculated Land Value:	$181,350.00
Calculated Improvement Value:	$91,540.00
Calculated Total Value:	$272,890.00
Assessed Total Value:	$19,520.00
Assessor's Parcel Number:	R015642
Owner:	MI CASA ES SU CASA LLC
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2017
Calculated Land Value:	$170,890.00
Calculated Improvement Value:	$87,070.00
Calculated Total Value:	$257,960.00
Assessed Total Value:	$18,570.00
Assessor's Parcel Number:	R015642
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2016
Calculated Land Value:	$147,640.00
Calculated Improvement Value:	$80,500.00
Calculated Total Value:	$228,140.00
Assessed Total Value:	$18,160.00
Assessor's Parcel Number:	R015642
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$141,830.00
Calculated Improvement Value:	$67,710.00
Calculated Total Value:	$209,540.00
Assessed Total Value:	$16,680.00
Assessor's Parcel Number:	R015642
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$147,640.00
Calculated Improvement Value:	$80,500.00
Calculated Total Value:	$228,140.00
Assessed Total Value:	$18,160.00
Assessor's Parcel Number:	R015642
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2013
Calculated Land Value:	$141,830.00
Calculated Improvement Value:	$67,710.00
Calculated Total Value:	$209,540.00
Assessed Total Value:	$16,680.00
Assessor's Parcel Number:	R015642
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2012
Calculated Land Value:	$141,830.00
Calculated Improvement Value:	$70,520.00
Calculated Total Value:	$212,350.00
Assessed Total Value:	$16,900.00
Assessor's Parcel Number:	R015642
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE DANIEL M
	LEISLE STEVEN R
Property Address:	1038 BLAIR ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48291730350003
Property Type:	COMMERCIAL
Land Use:	OFFICE & RESIDENTIAL
Lot Size:	10000
Lot Acreage:	0.2296
Municipality:	TOWN OF SILVERTON
Subdivision:	TOWN/SILVERTON
Legal Description:	BLOCK 35 LOTS 5 - 6
Block Number:	35
Lot Number:	5

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$110,430.00
Calculated Improvement Value:	$69,570.00
Calculated Total Value:	$180,000.00
Assessed Land Value:	$7,896.00
Assessed Improvement Value:	$4,974.00
Assessed Total Value:	$12,870.00
Market Land Value:	$110,430.00
Market Improvement Value:	$69,570.00
Market Total Value:	$180,000.00
Valuation Method:	MARKET
Tax Amount:	$1,002.40
Tax Code Area:	112

Building/Improvement Characteristics

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Building Type:	RESIDENTIAL
Number of Buildings:	2
Year Built:	19000000
Total Area:	6000010000
Living Square Feet:	955
Total Number of Rooms:	10
Number of Bedrooms:	4
Number of Bathrooms:	2.00
Full Baths:	2
Garage Type:	DETACHED FRAME GARAGE
Style/Shape:	RANCH
Construction Type:	FRAME
Construction Quality:	AVERAGE
Roof Type:	GABLE
Heat:	FORCED AIR

Last Market Sale Information

Sale Date:	04/01/1972
Seller Name:	WHITE NORA & CLIFF
Sale Price:	$4,500.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE

Previous Transaction Information

Number of Parcels:	Y

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2017
Calculated Land Value:	$78,000.00
Calculated Improvement Value:	$320,000.00
Calculated Total Value:	$398,000.00
Assessed Total Value:	$22,324.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R
Property Address:	1038 EMPIRE ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical Tax Assessor Record: 2.	
Tax Year:	2016
Calculated Land Value:	$78,000.00
Calculated Improvement Value:	$320,000.00
Calculated Total Value:	$398,000.00
Assessed Total Value:	$22,324.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R
Property Address:	1038 EMPIRE ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2015
Calculated Land Value:	$135,710.00
Calculated Improvement Value:	$52,794.00
Calculated Total Value:	$188,504.00
Assessed Total Value:	$18,816.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R
Property Address:	1038 EMPIRE ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$98,350.00
Calculated Improvement Value:	$113,453.00
Calculated Total Value:	$211,803.00
Assessed Total Value:	$20,982.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R
Property Address:	1038 EMPIRE ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2014

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Calculated Land Value:	$135,710.00
Calculated Improvement Value:	$52,794.00
Calculated Total Value:	$188,504.00
Assessed Total Value:	$18,816.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R
Property Address:	1038 EMPIRE ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2012
Calculated Land Value:	$98,350.00
Calculated Improvement Value:	$113,453.00
Calculated Total Value:	$211,803.00
Assessed Total Value:	$20,982.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R
Property Address:	1038 EMPIRE ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2012
Calculated Land Value:	$98,350.00
Calculated Improvement Value:	$113,453.00
Calculated Total Value:	$211,803.00
Assessed Total Value:	$21,501.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R
Property Address:	1038 EMPIRE ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 8.	
Tax Year:	2011
Calculated Land Value:	$103,500.00
Calculated Improvement Value:	$113,453.00

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Calculated Total Value:	$216,953.00
Assessed Total Value:	$21,501.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R
Property Address:	1038 EMPIRE ST CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 9.	
Tax Year:	2009
Calculated Land Value:	$115,000.00
Calculated Improvement Value:	$132,693.00
Calculated Total Value:	$247,693.00
Assessed Total Value:	$24,538.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R
Property Address:	1038 EMPIRE ST CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 10.	
Tax Year:	2008
Calculated Land Value:	$115,000.00
Calculated Improvement Value:	$132,693.00
Calculated Total Value:	$247,693.00
Assessor's Parcel Number:	48291730350003
Owner:	LEISLE DANIEL M, LEISLE STEVEN R
Property Address:	1038 EMPIRE ST CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN R
	LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R004146
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	6011
Lot Acreage:	0.1380
Subdivision:	MOUNTAIN VIEW ADD
Legal Description:	SUBDIVISION: MOUNTAIN VIEW ADD BLOCK: 7 LOT: 24 THRU:- LOT: 26 LESS W 70', M V ADD 735 E 3RD ST DURANGO 81301
Block Number:	7
Lot Number:	24

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$175,730.00
Calculated Improvement Value:	$192,590.00
Calculated Total Value:	$368,320.00
Assessed Land Value:	$12,650.00
Assessed Improvement Value:	$13,870.00
Assessed Total Value:	$26,520.00
Market Land Value:	$175,730.00
Market Improvement Value:	$192,590.00

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Market Total Value:	$368,320.00
Valuation Method:	MARKET
Tax Amount:	$963.28
Tax Code Area:	1111

Building/Improvement Characteristics

Building Type:	DUPLEX/TRIPLEX
Number of Buildings:	1
Year Built:	19230000
Total Area:	6011RES DUPLEX/TRIPLEX
Living Square Feet:	1163
Number of Bedrooms:	3
Number of Bathrooms:	2.00
Full Baths:	2
Basement Square Feet:	791
Style/Shape:	CONVENTIONAL
Heat:	CONVECTION

Last Market Sale Information

Sale Date:	01/31/2000
Seller Name:	OWNER RECORD
Sale Price:	$111,000.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	2000
Document Number:	781506

Previous Transaction Information

Number of Parcels:	Y Y

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2018
Calculated Land Value:	$186,860.00
Calculated Improvement Value:	$206,840.00
Calculated Total Value:	$393,700.00
Assessed Total Value:	$28,150.00
Assessor's Parcel Number:	R004146
Owner:	LEISLE STEVEN R, LEISLE DANIEL M

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2017
Calculated Land Value:	$175,730.00
Calculated Improvement Value:	$192,590.00
Calculated Total Value:	$368,320.00
Assessed Total Value:	$26,520.00
Assessor's Parcel Number:	R004146
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2016
Calculated Land Value:	$151,970.00
Calculated Improvement Value:	$177,000.00
Calculated Total Value:	$328,970.00
Assessed Total Value:	$26,190.00
Assessor's Parcel Number:	R004146
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$151,970.00
Calculated Improvement Value:	$177,000.00
Calculated Total Value:	$328,970.00
Assessed Total Value:	$26,190.00
Assessor's Parcel Number:	R004146
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$146,030.00
Calculated Improvement Value:	$151,670.00
Calculated Total Value:	$297,700.00
Assessed Total Value:	$23,690.00
Assessor's Parcel Number:	R004146
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2013
Calculated Land Value:	$146,030.00
Calculated Improvement Value:	$151,670.00
Calculated Total Value:	$297,700.00
Assessed Total Value:	$23,690.00
Assessor's Parcel Number:	R004146
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2012
Calculated Land Value:	$146,030.00
Calculated Improvement Value:	$162,850.00
Calculated Total Value:	$308,880.00
Assessed Total Value:	$24,580.00
Assessor's Parcel Number:	R004146
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

End of Document
To Summary
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Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	BRESNITZ SVETLANA
Ownership Rights:	LIVING TRUST
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Property Address:	7 MINERAL ST SILVERTON, CO 81433
Mailing Address:	1166 RIVERBEND CT ALAMOSA, CO 81101-5104

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48291730620112
Property Type:	VACANT
Land Use:	RESIDENTIAL LOT
Zoning:	R-2
Lot Size:	4750
Lot Acreage:	0.1090
Municipality:	TOWN OF SILVERTON
Legal Description:	BLOCK 62 LOTS 13-14 LESS NW 5FT
Block Number:	62
Lot Number:	13

Tax Assessment Information

Tax Year:	2018

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Land Value:	$95,000.00
Calculated Total Value:	$95,000.00
Assessed Land Value:	$27,550.00
Assessed Total Value:	$27,550.00
Market Land Value:	$95,000.00
Market Total Value:	$95,000.00
Valuation Method:	MARKET
Tax Amount:	$716.74
Tax Code Area:	112

Building/Improvement Characteristics

Total Area:	4750

Last Market Sale Information

Sale Date:	10/15/2018
Seller Name:	LEISLE STEVEN R
Sale Price:	$73,100.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	10/15/2018
Document Number:	152017
Title Company:	COLORADO TITLE & CLOSING SVCS

Previous Transaction Information

Number of Parcels:	Y

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2018
Calculated Land Value:	$55,040.00
Calculated Total Value:	$55,040.00
Assessed Total Value:	$15,962.00
Assessor's Parcel Number:	48291730620112
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	BRESNITZ SVETLANA
Property Address:	7 MINERAL ST SILVERTON, CO 81433
Mailing Address:	1166 RIVERBEND CT ALAMOSA, CO 81101-5104

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical Tax Assessor Record: 2.	
Estimated Tax Year:	2017
Calculated Land Value:	$55,040.00
Calculated Total Value:	$55,040.00
Assessed Total Value:	$15,962.00
Assessor's Parcel Number:	48291730620112
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	BRESNITZ SVETLANA
Property Address:	7 MINERAL ST CO
Mailing Address:	1166 RIVERBEND CT ALAMOSA, CO 81101-5104

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH
	LEISLE DANIEL M
Ownership Rights:	TENANCY IN COMMON
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	5595-361-05-034
Property Type:	CONDOMINIUM
Land Use:	CONDOMINIUM

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Lot Size:	43560
Lot Acreage:	1.0000
Subdivision:	SILVER SPRUCE CONDO
Legal Description:	SUBDIVISION: SILVER SPRUCE CONDO DESC: STORAGE UNIT CONDOS ON LOT 6 OF SILVER SPRUCE SUB.
Lot Number:	6
Range:	08
Township:	36
Section:	36

Tax Assessment Information

Tax Year:	2011
Calculated Improvement Value:	$18,870.00
Calculated Total Value:	$18,870.00
Assessed Improvement Value:	$1,500.00
Assessed Total Value:	$1,500.00
Market Improvement Value:	$18,870.00
Market Total Value:	$18,870.00
Valuation Method:	MARKET
Tax Amount:	$48.08
Tax Code Area:	1121

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	19460000
Total Area:	43560
Style/Shape:	TRADITIONAL

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2010
Calculated Improvement Value:	$20,150.00
Calculated Total Value:	$20,150.00
Assessed Total Value:	$1,600.00
Assessor's Parcel Number:	5595-361-05-034
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2010
Calculated Improvement Value:	$18,870.00
Calculated Total Value:	$18,870.00
Assessed Total Value:	$1,500.00
Assessor's Parcel Number:	5595-361-05-034
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2009
Calculated Improvement Value:	$20,150.00
Calculated Total Value:	$20,150.00
Assessed Total Value:	$1,600.00
Assessor's Parcel Number:	5595-361-05-034
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2008
Calculated Improvement Value:	$20,430.00
Calculated Total Value:	$20,430.00
Assessed Total Value:	$1,630.00
Assessor's Parcel Number:	5595-361-05-034
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2007
Calculated Improvement Value:	$13,540.00
Calculated Total Value:	$13,540.00
Assessed Total Value:	$1,080.00
Assessor's Parcel Number:	5595-36-1-05-034
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2006
Calculated Improvement Value:	$13,540.00
Calculated Total Value:	$13,540.00
Assessed Total Value:	$1,080.00
Assessor's Parcel Number:	5595-36-1-05-034
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2003
Calculated Land Value:	$7,370.00
Calculated Improvement Value:	$10,480.00
Calculated Total Value:	$17,850.00
Assessed Total Value:	$1,420.00
Assessor's Parcel Number:	5595-36-1-05-034
Owner:	LEISLE STEVEN RALPH & DANIEL M, 1038 EMPIRE ST
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827

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To Summary

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Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Owner Information

Owner(s):	OSTLUND ANNE-BRITT
	SCHENK MARKUS
Ownership Rights:	JOINT TENANCY
Property Address:	7 MINERAL ST CO
Mailing Address:	PO BOX 4194 TELLURIDE, CO 81435-4194

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48291730620012
Property Type:	VACANT
Land Use:	RESIDENTIAL LOT
Zoning:	R-2
Lot Size:	9500
Lot Acreage:	0.2181
Municipality:	TOWN OF SILVERTON
Subdivision:	TOWN/SILVERTON
Legal Description:	BLOCK 62 LOTS 13 - 16 LESS NW 5FT
Block Number:	62
Lot Number:	13

Tax Assessment Information

Tax Year:	2017
Calculated Land Value:	$110,080.00
Calculated Total Value:	$110,080.00
Assessed Land Value:	$31,923.00
Assessed Total Value:	$31,923.00
Market Land Value:	$110,080.00
Market Total Value:	$110,080.00
Valuation Method:	MARKET
Tax Amount:	$1,426.78
Tax Code Area:	112

Building/Improvement Characteristics

Total Area:	1000009500

Last Market Sale Information

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Sale Date:	10/15/2018
Seller Name:	LEISLE STEVEN R
Sale Price:	$73,100.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	10/15/2018
Document Number:	152017
Title Company:	COLORADO TITLE & CLOSING SVCS

Previous Transaction Information

Previous Document Number:	151280
Sale Date:	08/18/2017
Sale Price:	$85,100.00
Deed Type:	DEED OF TRUST
Type of Sale:	RESALE
Mortgage Amount:	$25,000.00
Number of Parcels:	Y
Recording Date:	08/18/2017

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2016
Calculated Land Value:	$120,400.00
Calculated Total Value:	$120,400.00
Assessed Total Value:	$34,916.00
Assessor's Parcel Number:	48291730620012
Owner:	LEISLE STEVEN R, OSTLUND ANNE-BRITT
Property Address:	7 MINERAL ST CO
Mailing Address:	PO BOX 848 SILVERTON, CO 81433-0848
Historical Tax Assessor Record: 2.	
Tax Year:	2016
Calculated Land Value:	$110,080.00
Calculated Total Value:	$110,080.00
Assessed Total Value:	$31,923.00
Assessor's Parcel Number:	48291730620012
Owner:	LEISLE STEVEN R, OSTLUND ANNE-BRITT
Property Address:	7 MINERAL ST

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	CO
Mailing Address:	PO BOX 848 SILVERTON, CO 81433-0848
Historical Tax Assessor Record: 3.	
Tax Year:	2015
Calculated Land Value:	$120,400.00
Calculated Total Value:	$120,400.00
Assessed Total Value:	$34,916.00
Assessor's Parcel Number:	48291730620012
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	BAKERS PARK LLC
Property Address:	7 MINERAL ST CO
Mailing Address:	2344 SANDPIPER DR LAFAYETTE, CO 80026-3149
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$167,770.00
Calculated Total Value:	$167,770.00
Assessed Total Value:	$48,653.00
Assessor's Parcel Number:	48291730620012
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	BAKERS PARK LLC
Property Address:	7 MINERAL ST CO
Mailing Address:	2344 SANDPIPER DR LAFAYETTE, CO 80026-3149
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$120,400.00
Calculated Total Value:	$120,400.00
Assessed Total Value:	$34,916.00
Assessor's Parcel Number:	48291730620012
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	BAKERS PARK LLC
Property Address:	7 MINERAL ST CO
Mailing Address:	2344 SANDPIPER DR

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	LAFAYETTE, CO 80026-3149
Historical Tax Assessor Record: 6.	
Tax Year:	2012
Calculated Land Value:	$167,770.00
Calculated Total Value:	$167,770.00
Assessed Total Value:	$48,653.00
Assessor's Parcel Number:	48291730620012
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	BAKERS PARK LLC
Property Address:	7 MINERAL ST CO
Mailing Address:	2665 W 2ND AVE 208 DURANGO, CO 81301-5903
Historical Tax Assessor Record: 7.	
Tax Year:	2012
Calculated Land Value:	$167,770.00
Calculated Total Value:	$167,770.00
Assessed Total Value:	$50,692.00
Assessor's Parcel Number:	48291730620012
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	BAKERS PARK LLC
Property Address:	7 MINERAL ST CO
Mailing Address:	2665 W 2ND AVE 208 DURANGO, CO 81301-5903
Historical Tax Assessor Record: 8.	
Tax Year:	2011
Calculated Land Value:	$174,800.00
Calculated Total Value:	$174,800.00
Assessed Total Value:	$50,692.00
Assessor's Parcel Number:	48291730620012
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	BAKERS PARK LLC
Property Address:	7 MINERAL ST CO
Mailing Address:	2665 W 2ND AVE 208 DURANGO, CO 81301-5903

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Historical Tax Assessor Record: 9.	
Tax Year:	2009
Calculated Land Value:	$218,500.00
Calculated Total Value:	$218,500.00
Assessed Total Value:	$63,365.00
Assessor's Parcel Number:	48291730620012
Owner:	BAKERS PARK LLC
Property Address:	7TH & MINERAL ST CO
Mailing Address:	2665 W 2ND AVE 208 DURANGO, CO 81301-5903
Historical Tax Assessor Record: 10.	
Tax Year:	2008
Calculated Land Value:	$218,500.00
Calculated Total Value:	$218,500.00
Assessor's Parcel Number:	48291730620012
Owner:	BAKERS PARK LLC
Property Address:	7TH & MINERAL ST CO
Mailing Address:	2665 W 2ND AVE DURANGO, CO 81301-5903

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary
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Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN R

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	5665-173-14-005
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	7492
Lot Acreage:	0.1720
Subdivision:	ANIMAS CITY DGO
Legal Description:	SUBDIVISION: ANIMAS CITY (DGO) BLOCK: 1 LOT: 20A 402 W 28TH ST DURANGO 81301
Block Number:	1
Lot Number:	20A

Tax Assessment Information

Tax Year:	2011
Calculated Land Value:	$149,450.00
Calculated Improvement Value:	$136,470.00
Calculated Total Value:	$285,920.00
Assessed Land Value:	$11,900.00
Assessed Improvement Value:	$10,860.00
Assessed Total Value:	$22,760.00
Market Land Value:	$149,450.00
Market Improvement Value:	$136,470.00
Market Total Value:	$285,920.00
Valuation Method:	MARKET
Tax Amount:	$658.64
Tax Code Area:	1111

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	19260000
Total Area:	7492
Living Square Feet:	1208

Thomson Reuters. No claim to original U.S. Government Works.

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Style/Shape:	TRADITIONAL

Last Market Sale Information

Sale Date:	05/28/1999
Seller Name:	OWNER RECORD
Sale Price:	$117,500.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	1999
Document Number:	768774

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2010
Calculated Land Value:	$149,450.00
Calculated Improvement Value:	$136,470.00
Calculated Total Value:	$285,920.00
Assessed Total Value:	$22,760.00
Assessor's Parcel Number:	5665-173-14-005
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2010
Calculated Land Value:	$187,430.00
Calculated Improvement Value:	$137,580.00
Calculated Total Value:	$325,010.00
Assessed Total Value:	$25,870.00
Assessor's Parcel Number:	5665-173-14-005
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2009
Calculated Land Value:	$187,430.00

Thomson Reuters. No claim to original U.S. Government Works.

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Calculated Improvement Value:	$137,580.00
Calculated Total Value:	$325,010.00
Assessed Total Value:	$25,870.00
Assessor's Parcel Number:	5665-173-14-005
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2009
Calculated Land Value:	$187,430.00
Calculated Improvement Value:	$137,580.00
Calculated Total Value:	$325,010.00
Assessed Total Value:	$25,870.00
Assessor's Parcel Number:	5665-173-14-005
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2008
Calculated Land Value:	$156,800.00
Calculated Improvement Value:	$122,520.00
Calculated Total Value:	$279,320.00
Assessed Total Value:	$22,230.00
Assessor's Parcel Number:	5665-173-14-005
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2007
Calculated Land Value:	$156,800.00
Calculated Improvement Value:	$122,520.00
Calculated Total Value:	$279,320.00

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Assessed Total Value:	$22,230.00
Assessor's Parcel Number:	5665-17-3-14-005
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2006
Calculated Land Value:	$156,800.00
Calculated Improvement Value:	$122,520.00
Calculated Total Value:	$279,320.00
Assessed Total Value:	$22,230.00
Assessor's Parcel Number:	5665-17-3-14-005
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827
Historical Tax Assessor Record: 8.	
Tax Year:	2003
Calculated Land Value:	$71,070.00
Calculated Improvement Value:	$86,080.00
Calculated Total Value:	$157,150.00
Assessed Total Value:	$12,510.00
Assessor's Parcel Number:	5665-17-3-14-005
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

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Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	SITES JOHN D
	SREBACIC KAREN
Property Address:	1043 MINERAL ST SILVERTON, CO 81433-5082
Mailing Address:	PO BOX 683 SILVERTON, CO 81433-0683

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48291730350011
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	3800
Lot Acreage:	0.0872
Municipality:	TOWN OF SILVERTON
Subdivision:	TOWN/SILVERTON
Legal Description:	BLOCK 35 N 1/2 OF LOT 21 & ALL OF LOT 22
Block Number:	35
Lot Number:	21

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$73,100.00
Calculated Improvement Value:	$122,900.00
Calculated Total Value:	$196,000.00
Assessed Land Value:	$5,227.00
Assessed Improvement Value:	$8,787.00
Assessed Total Value:	$14,014.00
Market Land Value:	$73,100.00
Market Improvement Value:	$122,900.00

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Market Total Value:	$196,000.00
Valuation Method:	MARKET
Tax Amount:	$559.40
Tax Code Area:	112

Building/Improvement Characteristics

Building Type:	RESIDENTIAL
Number of Buildings:	1
Year Built:	18980000
Total Area:	2000003800
Living Square Feet:	1144
Total Number of Rooms:	7
Number of Bedrooms:	4
Number of Bathrooms:	1.00
Full Baths:	1
Garage Type:	ATTACHED FRAME GARAGE
Number of Stories:	1.50
Style/Shape:	TYPE UNKNOWN
Construction Type:	FRAME
Construction Quality:	AVERAGE
Exterior Wall Type:	ALUMINUM
Roof Type:	GABLE
Foundation Type:	STONE
Heat:	FORCED AIR

Last Market Sale Information

Sale Date:	12/28/2012
Seller Name:	LEISLE STEVEN R & DANIEL M
Sale Price:	$146,200.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Mortgage Amount:	$147,800.00
Mortgage Loan Type:	CONVENTIONAL
Mortgage Term:	33 YEARS
Mortgage Deed Type:	DEED OF TRUST
Lender Name:	USDA RURAL HSNG SVC
Recording Date:	12/31/2012
Document Number:	148881
Title Company:	LAND TITLE GUARANTEE

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Previous Transaction Information

Previous Document Number:	148290
Sale Date:	11/29/2011
Sale Price:	$90,000.00
Type of Sale:	RESALE
Number of Parcels:	Y Y
Recording Date:	12/27/2011

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2017
Calculated Land Value:	$64,380.00
Calculated Improvement Value:	$108,650.00
Calculated Total Value:	$173,030.00
Assessed Total Value:	$12,458.00
Assessor's Parcel Number:	48291730350011
Owner:	SITES JOHN D, SREBACIC KAREN
Property Address:	1043 MINERAL ST SILVERTON, CO 81433
Mailing Address:	PO BOX 670 SILVERTON, CO 81433-0670
Historical Tax Assessor Record: 2.	
Tax Year:	2016
Calculated Land Value:	$64,380.00
Calculated Improvement Value:	$108,650.00
Calculated Total Value:	$173,030.00
Assessed Total Value:	$12,458.00
Assessor's Parcel Number:	48291730350011
Owner:	SITES JOHN D, SREBACIC KAREN
Property Address:	1043 MINERAL ST SILVERTON, CO 81433
Mailing Address:	PO BOX 670 SILVERTON, CO 81433-0670
Historical Tax Assessor Record: 3.	
Tax Year:	2015
Calculated Land Value:	$61,550.00
Calculated Improvement Value:	$108,050.00
Calculated Total Value:	$169,600.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Assessed Total Value:	$13,500.00
Assessor's Parcel Number:	48291730350011
Owner:	SITES JOHN D, SREBACIC KAREN
Property Address:	1043 MINERAL ST SILVERTON, CO 81433
Mailing Address:	PO BOX 670 SILVERTON, CO 81433-0670
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$67,108.00
Calculated Improvement Value:	$60,992.00
Calculated Total Value:	$128,100.00
Assessed Total Value:	$10,197.00
Assessor's Parcel Number:	48291730350011
Owner:	SITES JOHN D, SREBACIC KAREN
Property Address:	1043 MINERAL ST SILVERTON, CO 81433
Mailing Address:	PO BOX 670 SILVERTON, CO 81433-0670
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$61,550.00
Calculated Improvement Value:	$108,050.00
Calculated Total Value:	$169,600.00
Assessed Total Value:	$13,500.00
Assessor's Parcel Number:	48291730350011
Owner:	SITES JOHN D, SREBACIC KAREN
Property Address:	1043 MINERAL ST SILVERTON, CO 81433
Mailing Address:	PO BOX 670 SILVERTON, CO 81433-0670
Historical Tax Assessor Record: 6.	
Tax Year:	2012
Calculated Land Value:	$67,108.00
Calculated Improvement Value:	$60,992.00
Calculated Total Value:	$128,100.00
Assessed Total Value:	$10,197.00
Assessor's Parcel Number:	48291730350011

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Owner:	SITES JOHN D, SREBACIC KAREN
Property Address:	1043 MINERAL ST SILVERTON, CO 81433
Mailing Address:	PO BOX 670 SILVERTON, CO 81433-0670
Historical Tax Assessor Record: 7.	
Tax Year:	2012
Calculated Land Value:	$67,108.00
Calculated Improvement Value:	$60,992.00
Calculated Total Value:	$128,100.00
Assessed Total Value:	$11,488.00
Assessor's Parcel Number:	48291730350011
Owner:	SITES JOHN D, SREBACIC KAREN M
Property Address:	1043 MINERAL ST CO
Mailing Address:	PO BOX 670 SILVERTON, CO 81433-0670
Historical Tax Assessor Record: 8.	
Tax Year:	2011
Calculated Land Value:	$69,920.00
Calculated Improvement Value:	$74,396.00
Calculated Total Value:	$144,316.00
Assessed Total Value:	$11,488.00
Assessor's Parcel Number:	48291730350011
Owner:	SITES JOHN D, SREBACIC KAREN M
Property Address:	1043 MINERAL ST CO
Mailing Address:	PO BOX 670 SILVERTON, CO 81433-0670
Historical Tax Assessor Record: 9.	
Tax Year:	2011
Calculated Land Value:	$69,920.00
Calculated Improvement Value:	$74,396.00
Calculated Total Value:	$144,316.00
Assessed Total Value:	$11,488.00
Assessor's Parcel Number:	48291730350011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	1043 MINERAL ST

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 10.	
Tax Year:	2009
Calculated Land Value:	$87,400.00
Calculated Improvement Value:	$97,890.00
Calculated Total Value:	$185,290.00
Assessed Total Value:	$14,749.00
Assessor's Parcel Number:	48291730350011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	1043 MINERAL ST CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 11.	
Tax Year:	2009
Calculated Land Value:	$87,400.00
Calculated Improvement Value:	$97,890.00
Calculated Total Value:	$185,290.00
Assessed Total Value:	$14,749.00
Assessor's Parcel Number:	48291730350011
Absentee Owner:	OWNER OCCUPIED
Owner:	GAGNON KEVIN J
Property Address:	1043 MINERAL ST CO
Mailing Address:	1043 MINERAL ST SILVERTON, CO 81433
Historical Tax Assessor Record: 12.	
Tax Year:	2008
Calculated Land Value:	$87,400.00
Calculated Improvement Value:	$97,890.00
Calculated Total Value:	$185,290.00
Assessor's Parcel Number:	48291730350011
Owner:	GAGNON KEVIN J
Property Address:	1043 MINERAL ST CO
Mailing Address:	1043 MINERAL ST

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	SILVERTON, CO 81433

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN R
	LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	5665-171-11-007
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	8276
Lot Acreage:	0.1900
Subdivision:	ANIMAS CITY DGO
Legal Description:	SUBDIVISION: ANIMAS CITY (DGO) BLOCK: 56 LOT: J AND:- LOT: THRU L AN ADD 301 E 32ND ST DURANGO 81301
Block Number:	56
Lot Number:	J

Tax Assessment Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Tax Year:	2011
Calculated Land Value:	$141,830.00
Calculated Improvement Value:	$70,520.00
Calculated Total Value:	$212,350.00
Assessed Land Value:	$11,290.00
Assessed Improvement Value:	$5,610.00
Assessed Total Value:	$16,900.00
Market Land Value:	$141,830.00
Market Improvement Value:	$70,520.00
Market Total Value:	$212,350.00
Valuation Method:	MARKET
Tax Amount:	$489.08
Tax Code Area:	1111

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	19320000
Total Area:	8276
Living Square Feet:	654
Style/Shape:	TRADITIONAL

Last Market Sale Information

Sale Date:	02/26/1998
Seller Name:	OWNER RECORD
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	1998
Document Number:	741523

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2010
Calculated Land Value:	$141,830.00
Calculated Improvement Value:	$70,520.00
Calculated Total Value:	$212,350.00
Assessed Total Value:	$16,900.00
Assessor's Parcel Number:	5665-171-11-007
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2010
Calculated Land Value:	$177,860.00
Calculated Improvement Value:	$71,080.00
Calculated Total Value:	$248,940.00
Assessed Total Value:	$19,820.00
Assessor's Parcel Number:	5665-171-11-007
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2009
Calculated Land Value:	$177,860.00
Calculated Improvement Value:	$71,080.00
Calculated Total Value:	$248,940.00
Assessed Total Value:	$19,820.00
Assessor's Parcel Number:	5665-171-11-007
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2009
Calculated Land Value:	$177,860.00
Calculated Improvement Value:	$71,080.00
Calculated Total Value:	$248,940.00
Assessed Total Value:	$19,820.00
Assessor's Parcel Number:	5665-171-11-007
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2008
Calculated Land Value:	$148,800.00
Calculated Improvement Value:	$77,310.00
Calculated Total Value:	$226,110.00
Assessed Total Value:	$17,990.00
Assessor's Parcel Number:	5665-171-11-007
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2007
Calculated Land Value:	$148,800.00
Calculated Improvement Value:	$77,310.00
Calculated Total Value:	$226,110.00
Assessed Total Value:	$17,990.00
Assessor's Parcel Number:	5665-17-1-11-007
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2006
Calculated Land Value:	$148,800.00
Calculated Improvement Value:	$77,310.00
Calculated Total Value:	$226,110.00
Assessed Total Value:	$17,990.00
Assessor's Parcel Number:	5665-17-1-11-007
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-4068
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827

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Historical Tax Assessor Record: 8.	
Tax Year:	2003
Calculated Land Value:	$67,440.00
Calculated Improvement Value:	$52,030.00
Calculated Total Value:	$119,470.00
Assessed Total Value:	$9,510.00
Assessor's Parcel Number:	5665-17-1-11-007
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	301 E 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH
	LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R421189
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)
Lot Size:	610

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Lot Acreage:	0.0140
Legal Description:	SECTION: 36 TOWNSHIP: 36 RANGE: 8 TR LOCATED IN LOT 5 (NW4 NE4)
Lot Number:	5
Range:	08
Township:	36
Section:	36

Tax Assessment Information

Tax Year:	2012
Calculated Land Value:	$980.00
Calculated Total Value:	$980.00
Assessed Land Value:	$280.00
Assessed Total Value:	$280.00
Market Land Value:	$980.00
Market Total Value:	$980.00
Valuation Method:	MARKET
Tax Amount:	$14.16
Tax Code Area:	1121

Building/Improvement Characteristics

Total Area:	610

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R434344
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	TOWNHOUSE/ROWHOUSE
Lot Size:	9845
Lot Acreage:	0.2260
Subdivision:	CAMP SILVER SPRUCE
Legal Description:	SUBDIVISION: CAMP SILVER SPRUCE LOTS 5 & 6 LOT: 6B DESC: PER PLAT 1059297 40 FORREST GROVES LN DURANGO 81301
Lot Number:	5

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$45,940.00
Calculated Improvement Value:	$142,720.00
Calculated Total Value:	$188,660.00
Assessed Land Value:	$3,310.00
Assessed Improvement Value:	$10,280.00
Assessed Total Value:	$13,590.00
Market Land Value:	$45,940.00
Market Improvement Value:	$142,720.00
Market Total Value:	$188,660.00
Valuation Method:	MARKET
Tax Amount:	$586.56
Tax Code Area:	1121

Building/Improvement Characteristics

Building Type:	TOWNHOUSE
Number of Buildings:	1
Year Built:	19460000
Total Area:	9845RES IMPRV LAND

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Living Square Feet:	1425
Number of Bedrooms:	2
Number of Bathrooms:	2.00
Full Baths:	2
Style/Shape:	CONVENTIONAL
Heat:	RADIANT ELECTRIC

Previous Transaction Information

Number of Parcels:	Y Y

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2018
Calculated Land Value:	$47,810.00
Calculated Improvement Value:	$154,460.00
Calculated Total Value:	$202,270.00
Assessed Total Value:	$14,460.00
Assessor's Parcel Number:	R434344
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2017
Calculated Land Value:	$45,940.00
Calculated Improvement Value:	$142,720.00
Calculated Total Value:	$188,660.00
Assessed Total Value:	$13,590.00
Assessor's Parcel Number:	R434344
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2016
Calculated Land Value:	$45,000.00
Calculated Improvement Value:	$132,110.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Total Value:	$177,110.00
Assessed Total Value:	$14,100.00
Assessor's Parcel Number:	R434344
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$45,940.00
Calculated Improvement Value:	$151,730.00
Calculated Total Value:	$197,670.00
Assessed Total Value:	$15,740.00
Assessor's Parcel Number:	R434344
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$45,000.00
Calculated Improvement Value:	$132,110.00
Calculated Total Value:	$177,110.00
Assessed Total Value:	$14,100.00
Assessor's Parcel Number:	R434344
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2013
Calculated Land Value:	$12,860.00
Calculated Improvement Value:	$165,530.00
Calculated Total Value:	$178,390.00
Assessed Total Value:	$16,910.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Assessor's Parcel Number:	R434344
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH
	LEISLE DANIEL M
Ownership Rights:	TENANCY IN COMMON
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R011066
Property Type:	CONDOMINIUM
Land Use:	CONDOMINIUM
Lot Size:	43560
Lot Acreage:	1.0000
Subdivision:	SILVER SPRUCE CONDO
Legal Description:	SUBDIVISION: SILVER SPRUCE CONDO DESC: STORAGE UNIT CONDOS ON LOT 6 OF SILVER SPRUCE SUB.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Lot Number:	6
Range:	08
Township:	36
Section:	36

Tax Assessment Information

Tax Year:	2012
Calculated Improvement Value:	$18,870.00
Calculated Total Value:	$18,870.00
Assessed Improvement Value:	$1,500.00
Assessed Total Value:	$1,500.00
Market Improvement Value:	$18,870.00
Market Total Value:	$18,870.00
Valuation Method:	MARKET
Tax Amount:	$49.08
Tax Code Area:	1121

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	19460000
Total Area:	43560
Style/Shape:	TRADITIONAL

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN R

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	5665-294-13-011
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	5992
Lot Acreage:	0.1376
Subdivision:	MOUNTAIN VIEW ADD
Legal Description:	SUBDIVISION: MOUNTAIN VIEW ADD BLOCK: 7 LOT: 24 THRU:- LOT: 26 LESS W 70', M V ADD 735 E 3RD ST DURANGO 81301
Block Number:	7
Lot Number:	24

Tax Assessment Information

Tax Year:	2011
Calculated Land Value:	$146,030.00
Calculated Improvement Value:	$162,850.00
Calculated Total Value:	$308,880.00
Assessed Land Value:	$11,620.00
Assessed Improvement Value:	$12,960.00
Assessed Total Value:	$24,580.00
Market Land Value:	$146,030.00
Market Improvement Value:	$162,850.00
Market Total Value:	$308,880.00
Valuation Method:	MARKET
Tax Amount:	$711.32
Tax Code Area:	1111

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	19230000
Total Area:	6000005992

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Living Square Feet:	1163
Style/Shape:	TRADITIONAL

Last Market Sale Information

Sale Date:	01/31/2000
Seller Name:	OWNER RECORD
Sale Price:	$111,000.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	2000
Document Number:	781506

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2010
Calculated Land Value:	$118,400.00
Calculated Improvement Value:	$221,540.00
Calculated Total Value:	$339,940.00
Assessed Total Value:	$27,050.00
Assessor's Parcel Number:	5665-294-13-011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2010
Calculated Land Value:	$146,030.00
Calculated Improvement Value:	$162,850.00
Calculated Total Value:	$308,880.00
Assessed Total Value:	$24,580.00
Assessor's Parcel Number:	5665-294-13-011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2009

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Calculated Land Value:	$118,400.00
Calculated Improvement Value:	$221,540.00
Calculated Total Value:	$339,940.00
Assessed Total Value:	$27,050.00
Assessor's Parcel Number:	5665-294-13-011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2009
Calculated Land Value:	$118,400.00
Calculated Improvement Value:	$221,540.00
Calculated Total Value:	$339,940.00
Assessed Total Value:	$27,050.00
Assessor's Parcel Number:	5665-294-13-011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2008
Calculated Land Value:	$103,200.00
Calculated Improvement Value:	$194,290.00
Calculated Total Value:	$297,490.00
Assessed Total Value:	$23,680.00
Assessor's Parcel Number:	5665-294-13-011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2007
Calculated Land Value:	$103,200.00
Calculated Improvement Value:	$194,290.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Total Value:	$297,490.00
Assessed Total Value:	$23,680.00
Assessor's Parcel Number:	5665-29-4-13-011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2006
Calculated Land Value:	$103,200.00
Calculated Improvement Value:	$194,290.00
Calculated Total Value:	$297,490.00
Assessed Total Value:	$23,680.00
Assessor's Parcel Number:	5665-29-4-13-011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827
Historical Tax Assessor Record: 8.	
Tax Year:	2003
Calculated Land Value:	$46,410.00
Calculated Improvement Value:	$148,340.00
Calculated Total Value:	$194,750.00
Assessed Total Value:	$15,500.00
Assessor's Parcel Number:	5665-29-4-13-011
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	735 E 3RD ST DURANGO, CO 81301-5758
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN R
	LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290100010045
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY
Lot Size:	405108
Lot Acreage:	9.3000
Legal Description:	HELENA ROUX 9852

Tax Assessment Information

Tax Year:	2008
Calculated Land Value:	$65,100.00
Calculated Total Value:	$65,100.00
Market Land Value:	$65,100.00
Market Total Value:	$65,100.00
Valuation Method:	MARKET
Tax Amount:	$588.80
Tax Code Area:	101

Building/Improvement Characteristics

Total Area:	405108

Last Market Sale Information

Sale Date:	01/30/2004

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Seller Name:	OWNER RECORD
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	2004
Document Number:	143305

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN R
	LEISLE DANIEL M
Ownership Rights:	TENANCY IN COMMON
Mailing Address:	369 N SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R421188
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)
Lot Size:	653
Lot Acreage:	0.0150
Subdivision:	CAMP SILVER SPRUCE
Legal Description:	SECTION: 36 TOWNSHIP: 36 RANGE: 8 TR IN LOT 6 (NW4 NE4)
Lot Number:	6
Range:	08

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Township:	36
Section:	36

Tax Assessment Information

Tax Year:	2012
Calculated Land Value:	$980.00
Calculated Total Value:	$980.00
Assessed Land Value:	$280.00
Assessed Total Value:	$280.00
Market Land Value:	$980.00
Market Total Value:	$980.00
Valuation Method:	MARKET
Tax Amount:	$14.16
Tax Code Area:	1121

Building/Improvement Characteristics

Total Area:	653

Last Market Sale Information

Sale Date:	08/02/2007
Seller Name:	OWNER RECORD
Sale Price:	$400,000.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Multiple Parcel Sale:	MULTIPLE PARCEL SALE
Recording Date:	2007
Document Number:	962109

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020

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Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH
	LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R434343
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	TOWNHOUSE/ROWHOUSE
Lot Size:	4443
Lot Acreage:	0.1020
Subdivision:	CAMP SILVER SPRUCE
Legal Description:	SUBDIVISION: CAMP SILVER SPRUCE LOTS 5 & 6 LOT: 6A PER PLAT 1059297
Lot Number:	5

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$47,810.00
Calculated Improvement Value:	$145,210.00
Calculated Total Value:	$193,020.00
Assessed Land Value:	$3,420.00
Assessed Improvement Value:	$10,380.00
Assessed Total Value:	$13,800.00
Market Land Value:	$47,810.00
Market Improvement Value:	$145,210.00
Market Total Value:	$193,020.00
Valuation Method:	MARKET
Tax Amount:	$559.80
Tax Code Area:	1121

Building/Improvement Characteristics

Building Type:	TOWNHOUSE
Number of Buildings:	1

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Year Built:	19460000
Total Area:	4443RES IMPRV LAND
Living Square Feet:	1425
Number of Bedrooms:	2
Number of Bathrooms:	2.00
Full Baths:	2
Style/Shape:	TOWNHOUSE
Heat:	RADIANT ELECTRIC

Previous Transaction Information

Number of Parcels:	Y

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2018
Calculated Land Value:	$45,940.00
Calculated Improvement Value:	$134,170.00
Calculated Total Value:	$180,110.00
Assessed Total Value:	$12,970.00
Assessor's Parcel Number:	R434343
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2017
Calculated Land Value:	$45,940.00
Calculated Improvement Value:	$134,170.00
Calculated Total Value:	$180,110.00
Assessed Total Value:	$12,970.00
Assessor's Parcel Number:	R434343
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2016
Calculated Land Value:	$45,000.00
Calculated Improvement Value:	$124,200.00

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Calculated Total Value:	$169,200.00
Assessed Total Value:	$13,470.00
Assessor's Parcel Number:	R434343
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$45,000.00
Calculated Improvement Value:	$124,200.00
Calculated Total Value:	$169,200.00
Assessed Total Value:	$13,470.00
Assessor's Parcel Number:	R434343
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$45,940.00
Calculated Improvement Value:	$142,650.00
Calculated Total Value:	$188,590.00
Assessed Total Value:	$15,010.00
Assessor's Parcel Number:	R434343
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2013
Calculated Improvement Value:	$148,820.00
Calculated Total Value:	$148,820.00
Assessed Total Value:	$11,850.00
Assessor's Parcel Number:	R434343
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444

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	SILVERTON, CO 81433-0444

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH
	LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN 2 DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R001994
Property Type:	CONDOMINIUM
Land Use:	CONDOMINIUM
Lot Size:	43560
Lot Acreage:	1.0000
Subdivision:	SILVER SPRUCE CONDO
Legal Description:	SUBDIVISION: SILVER SPRUCE CONDO UNIT: 2 DESC: ON LOT 6 OF SILVER SPRUCE S/D 40 FORREST GROVES LN #2 DURANGO 81301
Lot Number:	6

Tax Assessment Information

Tax Year:	2012

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Improvement Value:	$175,990.00
Calculated Total Value:	$175,990.00
Assessed Improvement Value:	$14,010.00
Assessed Total Value:	$14,010.00
Market Improvement Value:	$175,990.00
Market Total Value:	$175,990.00
Valuation Method:	MARKET
Tax Amount:	$458.52
Tax Code Area:	1121

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	19460000
Total Area:	43560
Living Square Feet:	1425
Style/Shape:	TRADITIONAL

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH
	LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN 2 DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

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Property Information

County:	LA PLATA
Assessor's Parcel Number:	5595-361-05-031
Property Type:	CONDOMINIUM
Land Use:	CONDOMINIUM
Lot Size:	43560
Lot Acreage:	1.0000
Subdivision:	SILVER SPRUCE CONDO
Legal Description:	SUBDIVISION: SILVER SPRUCE CONDO UNIT: 2 DESC: ON LOT 6 OF SILVER SPRUCE S/D 40 FORREST GROVES LN #2 DURANGO 81301
Lot Number:	6

Tax Assessment Information

Tax Year:	2011
Calculated Improvement Value:	$175,990.00
Calculated Total Value:	$175,990.00
Assessed Improvement Value:	$14,010.00
Assessed Total Value:	$14,010.00
Market Improvement Value:	$175,990.00
Market Total Value:	$175,990.00
Valuation Method:	MARKET
Tax Amount:	$449.20
Tax Code Area:	1121

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	19460000
Total Area:	43560
Living Square Feet:	1425
Style/Shape:	TRADITIONAL

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2010
Calculated Improvement Value:	$187,250.00
Calculated Total Value:	$187,250.00
Assessed Total Value:	$14,910.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Assessor's Parcel Number:	5595-361-05-031
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN 2 DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2010
Calculated Improvement Value:	$175,990.00
Calculated Total Value:	$175,990.00
Assessed Total Value:	$14,010.00
Assessor's Parcel Number:	5595-361-05-031
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN 2 DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2009
Calculated Improvement Value:	$187,250.00
Calculated Total Value:	$187,250.00
Assessed Total Value:	$14,910.00
Assessor's Parcel Number:	5595-361-05-031
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FORREST GROVES LN 2 DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2008
Calculated Improvement Value:	$189,230.00
Calculated Total Value:	$189,230.00
Assessed Total Value:	$15,060.00
Assessor's Parcel Number:	5595-361-05-031
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FOREST GROVES LN 2 DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444

Thomson Reuters. No claim to original U.S. Government Works.

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	SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2007
Calculated Improvement Value:	$125,370.00
Calculated Total Value:	$125,370.00
Assessed Total Value:	$9,980.00
Assessor's Parcel Number:	5595-36-1-05-031
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FOREST GROVES LN 2 DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2006
Calculated Improvement Value:	$125,370.00
Calculated Total Value:	$125,370.00
Assessed Total Value:	$9,980.00
Assessor's Parcel Number:	5595-36-1-05-031
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FOREST GROVES LN 2 DURANGO, CO 81301-8354
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2003
Calculated Land Value:	$12,780.00
Calculated Improvement Value:	$96,570.00
Calculated Total Value:	$109,350.00
Assessed Total Value:	$8,710.00
Assessor's Parcel Number:	5595-36-1-05-031
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	40 FOREST GROVES LN 2 DURANGO, CO 81301-8354
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	ANDRES JOHN
	ANDRES ANNETTE
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Property Address:	4522 COUNTY ROAD 2 SILVERTON, CO 81433
Mailing Address:	7996 PETER HOOVER RD NEW ALBANY, OH 43054-8553

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	47730300055000
Property Type:	VACANT
Land Use:	VACANT LAND (NEC)
Zoning:	PUD
Lot Size:	142006
Lot Acreage:	3.2600
Municipality:	SAN JUAN COUNTY
Subdivision:	COLE RANCH SUB
Legal Description:	LOT 5, COLE RANCH SUBDIVISION LOCATED IN PART OF THE JOHN H FRENCH PLACER, RECORDED RECEPTION #141293, AUGUST 8, 2001 AND ON MAP #176.
Lot Number:	5

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$51,200.00

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Total Value:	$51,200.00
Assessed Land Value:	$14,848.00
Assessed Total Value:	$14,848.00
Market Land Value:	$51,200.00
Market Total Value:	$51,200.00
Valuation Method:	MARKET
Tax Amount:	$398.78
Tax Code Area:	101

Building/Improvement Characteristics

Total Area:	142006

Last Market Sale Information

Sale Date:	11/11/2014
Seller Name:	LEISLE STEVEN R
Sale Price:	$57,100.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	11/13/2014
Document Number:	149802
Title Company:	LAND TITLE GUARANTEE

Previous Transaction Information

Previous Document Number:	149166
Sale Date:	08/22/2013
Sale Price:	$39,100.00
Type of Sale:	RESALE
Number of Parcels:	Y
Recording Date:	08/23/2013

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2017
Calculated Land Value:	$40,040.00
Calculated Total Value:	$40,040.00
Assessed Total Value:	$11,612.00
Assessor's Parcel Number:	47730300055000
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	ANDRES JOHN, ANDRES ANNETTE

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Address:	4522 COUNTY ROAD 2 CO
Mailing Address:	7996 PETER HOOVER RD NEW ALBANY, OH 43054-8553
Historical Tax Assessor Record: 2.	
Tax Year:	2016
Calculated Land Value:	$40,040.00
Calculated Total Value:	$40,040.00
Assessed Total Value:	$11,612.00
Assessor's Parcel Number:	47730300055000
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	ANDRES JOHN, ANDRES ANNETTE
Property Address:	4522 COUNTY ROAD 2 CO
Mailing Address:	7996 PETER HOOVER RD NEW ALBANY, OH 43054-8553
Historical Tax Assessor Record: 3.	
Tax Year:	2015
Calculated Land Value:	$52,333.00
Calculated Total Value:	$52,333.00
Assessed Total Value:	$15,177.00
Assessor's Parcel Number:	47730300055000
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	ANDRES JOHN, ANDRES ANNETTE
Property Address:	4522 COUNTY ROAD 2 CO
Mailing Address:	4535 NEISWANDER SQ NEW ALBANY, OH 43054-9642
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$96,000.00
Calculated Total Value:	$96,000.00
Assessed Total Value:	$27,840.00
Assessor's Parcel Number:	47730300055000
Owner:	ANDRES JOHN D & ANNETTE M, ANDRES MATTHEW A
Property Address:	4522 COUNTY ROAD 2 CO
Mailing Address:	4535 NEISWANDER SQ

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	NEW ALBANY, OH 43054-9642
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$52,333.00
Calculated Total Value:	$52,333.00
Assessed Total Value:	$15,177.00
Assessor's Parcel Number:	47730300055000
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	ANDRES JOHN, ANDRES ANNETTE
Property Address:	4522 COUNTY ROAD 2 CO
Mailing Address:	4535 NEISWANDER SQ NEW ALBANY, OH 43054-9642
Historical Tax Assessor Record: 6.	
Tax Year:	2013
Calculated Land Value:	$96,000.00
Calculated Total Value:	$96,000.00
Assessed Total Value:	$27,840.00
Assessor's Parcel Number:	47730300055000
Owner:	ANDRES JOHN D & ANNETTE M, ANDRES MATTHEW A
Property Address:	4522 COUNTY RD CO
Mailing Address:	4535 NEISWANDER SQ NEW ALBANY, OH 43054-9642
Historical Tax Assessor Record: 7.	
Tax Year:	2012
Calculated Land Value:	$96,000.00
Calculated Total Value:	$96,000.00
Assessed Total Value:	$27,840.00
Assessor's Parcel Number:	47730300055000
Owner:	LEISEL STEVEN R
Property Address:	4522 COUNTY RD CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 8.	
Tax Year:	2012

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Land Value:	$96,000.00
Calculated Total Value:	$96,000.00
Assessed Total Value:	$29,000.00
Assessor's Parcel Number:	47730300055000
Absentee Owner:	SITUS FROM SALE (ABSENTEE)
Owner:	BANK OF THE WEST
Property Address:	4522 COUNTY RD CO
Mailing Address:	2527 CAMINO RAMON SAN RAMON, CA 94583-4292
Historical Tax Assessor Record: 9.	
Tax Year:	2012
Calculated Land Value:	$96,000.00
Calculated Total Value:	$96,000.00
Assessed Total Value:	$29,000.00
Assessor's Parcel Number:	47730300055000
Owner:	LEISLE STEVEN R
Property Address:	4522 COUNTY RD CO
Mailing Address:	1038 EMPIRE ST SILVERTON, CO 81433
Historical Tax Assessor Record: 10.	
Tax Year:	2011
Calculated Land Value:	$100,000.00
Calculated Total Value:	$100,000.00
Assessed Total Value:	$29,000.00
Assessor's Parcel Number:	47730300055000
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	SCHAEFER MERLIN
Property Address:	4522 COUNTY RD CO
Mailing Address:	886 PASHUTA DR GUNNISON, CO 81230-8709
Historical Tax Assessor Record: 11.	
Tax Year:	2009
Calculated Land Value:	$100,000.00
Calculated Total Value:	$100,000.00
Assessed Total Value:	$29,000.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Assessor's Parcel Number:	47730300055000
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	SCHAEFER MERLIN
Property Address:	4522 COUNTY ROAD 2 CO
Mailing Address:	886 PASHUTA DR GUNNISON, CO 81230-8709
Historical Tax Assessor Record: 12.	
Tax Year:	2008
Calculated Land Value:	$100,000.00
Calculated Total Value:	$100,000.00
Assessor's Parcel Number:	47730300055000
Owner:	SCHAEFER MERLIN
Property Address:	4522 COUNTY ROAD 2 CO
Mailing Address:	886 PASHUTA DR GUNNISON, CO 81230-8709

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN R
	LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R437297
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)
Lot Size:	7754
Lot Acreage:	0.1780
Subdivision:	ANIMAS CITY
Legal Description:	SUBDIVISION: ANIMAS CITY (DGO) BLOCK: 1 LOT: 20A PLUS VACATED W 28TH ST ROW PER PLAT 1159651 402 W 28TH ST DURANGO 81301
Block Number:	1
Lot Number:	20A

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$191,100.00
Calculated Improvement Value:	$175,380.00
Calculated Total Value:	$366,480.00
Assessed Land Value:	$13,660.00
Assessed Improvement Value:	$12,540.00
Assessed Total Value:	$26,200.00
Market Land Value:	$191,100.00
Market Improvement Value:	$175,380.00
Market Total Value:	$366,480.00
Valuation Method:	MARKET
Tax Amount:	$907.72

Building/Improvement Characteristics

Total Area:	7754RES IMPRV LAND

Last Market Sale Information

Sale Date:	05/28/1999
Seller Name:	OWNER RECORD
Sale Price:	$117,500.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE

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Recording Date:	1999
Document Number:	768774

Previous Transaction Information

Number of Parcels:	Y Y

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH
	LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	5595-361-05-030
Property Type:	CONDOMINIUM
Land Use:	CONDOMINIUM
Lot Size:	43560
Lot Acreage:	1.0000
Subdivision:	SILVER SPRUCE CONDO
Legal Description:	SUBDIVISION: SILVER SPRUCE CONDO UNIT: 1 DESC: ON LOT 6 OF SILVER SPRUCE S/D
Lot Number:	6

Tax Assessment Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Tax Year:	2011
Calculated Improvement Value:	$176,910.00
Calculated Total Value:	$176,910.00
Assessed Improvement Value:	$14,080.00
Assessed Total Value:	$14,080.00
Market Improvement Value:	$176,910.00
Market Total Value:	$176,910.00
Valuation Method:	MARKET
Tax Amount:	$451.48
Tax Code Area:	1121

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	19460000
Total Area:	43560
Living Square Feet:	1425
Style/Shape:	TRADITIONAL

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2010
Calculated Improvement Value:	$176,910.00
Calculated Total Value:	$176,910.00
Assessed Total Value:	$14,080.00
Assessor's Parcel Number:	5595-361-05-030
Absentee Owner:	SITUS ADDRESS TAKEN FROM MAIL
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	SILVERTON, CO 81433-0444
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2010
Calculated Improvement Value:	$188,230.00
Calculated Total Value:	$188,230.00
Assessed Total Value:	$14,980.00
Assessor's Parcel Number:	5595-361-05-030
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2009
Calculated Improvement Value:	$188,230.00
Calculated Total Value:	$188,230.00
Assessed Total Value:	$14,980.00
Assessor's Parcel Number:	5595-361-05-030
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2008
Calculated Improvement Value:	$190,220.00
Calculated Total Value:	$190,220.00
Assessed Total Value:	$15,140.00
Assessor's Parcel Number:	5595-361-05-030
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2007
Calculated Improvement Value:	$126,020.00
Calculated Total Value:	$126,020.00
Assessed Total Value:	$10,030.00
Assessor's Parcel Number:	5595-36-1-05-030
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2006
Calculated Improvement Value:	$126,020.00
Calculated Total Value:	$126,020.00
Assessed Total Value:	$10,030.00
Assessor's Parcel Number:	5595-36-1-05-030
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2003
Calculated Land Value:	$12,780.00
Calculated Improvement Value:	$97,070.00
Calculated Total Value:	$109,850.00
Assessed Total Value:	$8,750.00
Assessor's Parcel Number:	5595-36-1-05-030
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	179 HIGH TRAILS DR DURANGO, CO 81301-8380
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary
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Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN R
	LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Assessor's Parcel Number:	R420102
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	6621
Lot Acreage:	0.1520
Subdivision:	ANIMAS CITY
Legal Description:	SUBDIVISION: ANIMAS CITY (DGO) BLOCK: 1 LOT: 20A 402 W 28TH ST DURANGO 81301
Block Number:	1
Lot Number:	20A

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$180,080.00
Calculated Improvement Value:	$166,930.00
Calculated Total Value:	$347,010.00
Assessed Land Value:	$12,970.00
Assessed Improvement Value:	$12,020.00
Assessed Total Value:	$24,990.00
Market Land Value:	$180,080.00
Market Improvement Value:	$166,930.00
Market Total Value:	$347,010.00
Valuation Method:	MARKET
Tax Amount:	$907.72
Tax Code Area:	1111

Building/Improvement Characteristics

Building Type:	SINGLE FAMILY
Number of Buildings:	1
Year Built:	19260000
Total Area:	6621RES IMPRV LAND
Living Square Feet:	1208
Number of Bedrooms:	2
Number of Bathrooms:	1.00
Full Baths:	1
Garage Type:	UNFINISHED DETACHED GARAGE
Style/Shape:	CONVENTIONAL
Heat:	CONVECTION

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Last Market Sale Information

Sale Date:	05/28/1999
Seller Name:	OWNER RECORD
Sale Price:	$117,500.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	1999
Document Number:	768774

Previous Transaction Information

Number of Parcels:	Y Y

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2017
Calculated Land Value:	$180,080.00
Calculated Improvement Value:	$166,930.00
Calculated Total Value:	$347,010.00
Assessed Total Value:	$24,990.00
Assessor's Parcel Number:	R420102
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2016
Calculated Land Value:	$155,580.00
Calculated Improvement Value:	$155,660.00
Calculated Total Value:	$311,240.00
Assessed Total Value:	$24,770.00
Assessor's Parcel Number:	R420102
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical Tax Assessor Record: 3.	
Tax Year:	2014
Calculated Land Value:	$155,580.00
Calculated Improvement Value:	$155,660.00
Calculated Total Value:	$311,240.00
Assessed Total Value:	$24,770.00
Assessor's Parcel Number:	R420102
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$149,450.00
Calculated Improvement Value:	$130,660.00
Calculated Total Value:	$280,110.00
Assessed Total Value:	$22,300.00
Assessor's Parcel Number:	R420102
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2013
Calculated Land Value:	$149,450.00
Calculated Improvement Value:	$130,660.00
Calculated Total Value:	$280,110.00
Assessed Total Value:	$22,300.00
Assessor's Parcel Number:	R420102
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2012

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Calculated Land Value:	$149,450.00
Calculated Improvement Value:	$136,470.00
Calculated Total Value:	$285,920.00
Assessed Total Value:	$22,760.00
Assessor's Parcel Number:	R420102
Owner:	LEISLE STEVEN R, LEISLE DANIEL M
Property Address:	402 W 28TH ST DURANGO, CO 81301-4108
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN R
	LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290150010013
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY
Lot Size:	449975
Lot Acreage:	10.3300
Legal Description:	DANA 13322A

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Tax Assessment Information

Tax Year:	2008
Calculated Land Value:	$51,655.00
Calculated Total Value:	$51,655.00
Market Land Value:	$51,655.00
Market Total Value:	$51,655.00
Valuation Method:	MARKET
Tax Amount:	$467.20
Tax Code Area:	101

Building/Improvement Characteristics

Total Area:	449975

Last Market Sale Information

Sale Date:	05/14/2003
Seller Name:	TAYLOR KENT
Sale Price:	$30,800.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	2003
Document Number:	142609

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	04/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN R

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290150010012
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY
Lot Size:	444312
Lot Acreage:	10.2000
Legal Description:	HAPPY JACK 8492

Tax Assessment Information

Tax Year:	2008
Calculated Land Value:	$10,200.00
Calculated Total Value:	$10,200.00
Market Land Value:	$10,200.00
Market Total Value:	$10,200.00
Valuation Method:	MARKET
Tax Amount:	$92.26
Tax Code Area:	101

Building/Improvement Characteristics

Total Area:	444312

Last Market Sale Information

Sale Date:	03/27/2006
Seller Name:	AIMONE CHRISTOPHER K & KATHLEEN
Sale Price:	$10,000.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	2006
Document Number:	144785

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	LEISLE STEVEN RALPH
	LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	5595-361-05-029
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)
Lot Size:	610
Lot Acreage:	0.0140
Legal Description:	SECTION: 36 TOWNSHIP: 36 RANGE: 8 TR LOCATED IN LOT 5 (NW4 NE4)
Lot Number:	5
Range:	08
Township:	36
Section:	36

Tax Assessment Information

Tax Year:	2011
Calculated Land Value:	$980.00
Calculated Total Value:	$980.00
Assessed Land Value:	$280.00
Assessed Total Value:	$280.00
Market Land Value:	$980.00
Market Total Value:	$980.00
Valuation Method:	MARKET

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Tax Amount:	$13.96
Tax Code Area:	1121

Building/Improvement Characteristics

Total Area:	610

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2010
Calculated Land Value:	$980.00
Calculated Total Value:	$980.00
Assessed Total Value:	$280.00
Assessor's Parcel Number:	5595-361-05-029
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 2.	
Tax Year:	2010
Calculated Land Value:	$1,230.00
Calculated Total Value:	$1,230.00
Assessed Total Value:	$360.00
Assessor's Parcel Number:	5595-361-05-029
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 3.	
Tax Year:	2009
Calculated Land Value:	$1,230.00
Calculated Total Value:	$1,230.00
Assessed Total Value:	$360.00
Assessor's Parcel Number:	5595-361-05-029
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 4.	
Tax Year:	2008

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Calculated Land Value:	$1,200.00
Calculated Total Value:	$1,200.00
Assessed Total Value:	$350.00
Assessor's Parcel Number:	5595-361-05-029
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 5.	
Tax Year:	2007
Calculated Land Value:	$1,200.00
Calculated Total Value:	$1,200.00
Assessed Total Value:	$350.00
Assessor's Parcel Number:	5595-36-1-05-029
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Property Address:	CO
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 6.	
Tax Year:	2006
Calculated Land Value:	$1,200.00
Calculated Total Value:	$1,200.00
Assessed Total Value:	$350.00
Assessor's Parcel Number:	5595-36-1-05-029
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444
Historical Tax Assessor Record: 7.	
Tax Year:	2003
Calculated Land Value:	$680.00
Calculated Total Value:	$680.00
Assessed Total Value:	$200.00
Assessor's Parcel Number:	5595-36-1-05-029
Owner:	LEISLE STEVEN RALPH, LEISLE DANIEL M
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

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TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Real Property Transactions (26)

To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	11/18/2019
Seller Name:	LEISLE STEVEN R & DANIEL M
Deed Type:	QUIT CLAIM DEED
Document Type:	QUIT CLAIM DEED
Type of Transaction:	NOMINAL
Recording Date:	12/30/2019
Document Number:	1166185
Construction Type:	SALE IS A RE-SALE

Owner Information

Owner(s):	MI CASA ES SU CASA LLC
Ownership Rights:	COMPANY / CORPORATION
Corporate Owner:	CORPORATE OWNER
Property Address:	301 32ND ST DURANGO, CO 81301-6011
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R015642

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	654

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	07/10/2010
Seller Name:	LEISLE STEVEN R
Sale Price:	$8,500.00
Deed Type:	GRANT DEED
Document Type:	SPECIAL WARRANTY DEED
Type of Transaction:	RESALE
Recording Date:	07/14/2010
Document Number:	147481
Construction Type:	SALE IS A RE-SALE
Purchase Payment:	CASH

Owner Information

Owner(s):	LARRY ZASTROW
Property Address:	CO
Mailing Address:	944 RAINBOW BLVD 151 SALIDA, CO 81201-2971

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290140010009

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

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To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	09/07/2018
Seller Name:	RIES-ANDERBERG FAMILY TRUST
Sale Price:	$2,500.00
Deed Type:	QUIT CLAIM DEED
Document Type:	QUIT CLAIM DEED
Type of Transaction:	NOMINAL
Recording Date:	09/07/2018
Document Number:	151967
Construction Type:	SALE IS A RE-SALE
Purchase Payment:	CASH

Owner Information

Owner(s):	STEVEN R LEISLE
Owner Relationship:	SINGLE
Property Address:	1038 EMPIRE ST SILVERTON, CO 85254
Mailing Address:	1038 EMPIRE ST SILVERTON, CO 85254

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48291730350003
Property Type:	COMMERCIAL
Land Use:	OFFICE & RESIDENTIAL
Building Square Feet:	955

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	10/17/2005
Seller Name:	CAMP SILVER SPRUCE INC
Deed Type:	QUIT CLAIM
Type of Transaction:	RESALE
Recording Date:	11/17/2005
Document Number:	922700
Construction Type:	RESALE
Purchase Payment:	CASH

Owner Information

Owner(s):	STEVEN R & DANIEL M LEISLE
Ownership Rights:	TENANTS IN COMMON
Additional Owner:	LEISLE STEVEN R
Ownership Rights:	TENANTS IN COMMON
Additional Owner:	LEISLE DANIEL M
Ownership Rights:	TENANTS IN COMMON
Property Address:	CO
Mailing Address:	PO BOX 827 SILVERTON, CO 81433-0827

Property Information

County:	LA PLATA
Property Type:	MISCELLANEOUS

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Real Property Transaction Record

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Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	DANIEL M LEISLE
Owner Relationship:	MARRIED
Ownership Rights:	SEPARATE PROPERTY
Additional Owner:	LEISLE DANIEL M
Owner Relationship:	MARRIED
Ownership Rights:	SEPARATE PROPERTY
Additional Owner:	LEISLE STEVEN R
Owner Relationship:	UNMARRIED
Property Address:	735 3RD ST DURANGO, CO 81301-5758
Mailing Address:	735 3RD ST DURANGO, CO 81301-5758

Transaction Information

Transaction Date:	07/01/2004
Deed Type:	DEED OF TRUST
Type of Transaction:	REFINANCE
Mortgage Amount:	$80,000.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	15 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	07/01/2004
Mortgage Due Date:	08/01/2019
Interest Rate:	FIXED
Lender Name:	CHARTER BK
Address:	ALBUQUERQUE, NM 87111
Recording Date:	07/15/2004
Document Number:	888900
Title Company:	COLORADO LAND TITLE CO
Refinance Loan:	LOAN TO VALUE IS MORE THAN 50%

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R004146
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

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To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	STEVEN R & DANIEL M LEISLE
Property Address:	MINERAL ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48291730300010

Transaction Information

Transaction Date:	06/25/2009
Seller Name:	CAMPBELL MARY A
Sale Price:	$50,300.00
Deed Type:	GRANT DEED
Document Type:	WARRANTY DEED
Type of Transaction:	RESALE
Mortgage Amount:	$40,000.00
Mortgage Type:	PRIVATE PARTY LENDER
Mortgage Term:	5 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	06/25/2009
Mortgage Due Date:	08/01/2013
Lender Name:	MONTANATIMARY A
Address:	LAKEWOOD, CO 80214-5226
Recording Date:	06/26/2009
Document Number:	146939
	LAND TITLE GUARANTEE
Private Party Lender:	YES
Construction Type:	SALE IS A RE-SALE
Purchase Payment:	MORTGAGE
Multiple Parcel Sale:	SPLIT PARCEL SALE

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	12/29/2012
Seller Name:	CFS INVESTMENTS LLC
Deed Type:	GRANT DEED
Document Type:	BARGAIN & SALE DEED
Type of Transaction:	NOMINAL
Recording Date:	01/16/2013
Document Number:	1059298
Construction Type:	SALE IS A RE-SALE
Multiple Parcel Sale:	MULTI / DETAIL PARCEL SALE

Owner Information

Owner(s):	STEVEN R & DANIEL M LEISLE
Ownership Rights:	TENANTS IN COMMON
Property Address:	CO 32082
Mailing Address:	369 SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756

Property Information

County:	LA PLATA
Assessor's Parcel Number:	559536105028
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Transaction Record

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Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	03/27/2006
Seller Name:	AIMONE CHRISTOPHER K & KATHLEEN
Sale Price:	$10,000.00
Deed Type:	GRANT DEED
Document Type:	DEED
Type of Transaction:	RESALE
Recording Date:	2006
Document Number:	144785
Construction Type:	SALE IS A RE-SALE

Owner Information

Owner(s):	STEVEN R LEISLE
Property Address:	CO

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290150010012
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020

Transaction Information

Transaction Date:	06/19/2009
Deed Type:	TRUST DEED/ MORTGAGE
Document Type:	DEED OF TRUST
Type of Transaction:	REFINANCE

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Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	STEVEN R LEISLE
Owner Relationship:	UNMARRIED MAN
Property Address:	1038 EMPIRE ST SILVERTON, CO 81433
Mailing Address:	1038 EMPIRE ST SILVERTON, CO 81433

Mortgage Amount:	$93,200.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	30 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	06/19/2009
Mortgage Due Date:	07/01/2039
Lender Name:	CHARTER BK
Address:	ALBUQUERQUE, NM 87111
Recording Date:	07/02/2009
Document Number:	146954
Refinance Loan:	LOAN TO VALUE IS MORE THAN 50%

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48291730350003
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)
Building Square Feet:	981

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	01/30/2004
Seller Name:	OWNER RECORD
Deed Type:	GRANT DEED
Document Type:	DEED
Type of Transaction:	RESALE
Recording Date:	2004

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Document Number:	143305
Construction Type:	SALE IS A RE-SALE

Owner Information

Owner(s):	STEVEN R LEISLE
Property Address:	CO

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290100010045
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	JOHN D & ANNETTE M ANDRES
Ownership Rights:	JOINT TENANTS
Property Address:	4522 COUNTY ROAD 2 SILVERTON, CO 81433
Mailing Address:	4535 NEISWANDER SQ

Transaction Information

Transaction Date:	11/11/2014
Seller Name:	LEISLE STEVEN R
Sale Price:	$57,100.00
Deed Type:	GRANT DEED
Document Type:	WARRANTY DEED
Type of Transaction:	RESALE
Recording Date:	11/13/2014
Document Number:	149802
	LAND TITLE GUARANTEE
Construction Type:	SALE IS A RE-SALE
Purchase Payment:	CASH

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	NEW ALBANY, OH 43054-9642

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	47730300055000
Property Type:	VACANT
Land Use:	VACANT LAND (NEC)

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary
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Real Property Transaction Record

Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	01/05/1996
Seller Name:	SMITH OTTO
Deed Type:	GRANT DEED
Document Type:	DEED
Type of Transaction:	RESALE
Construction Type:	SALE IS A RE-SALE

Owner Information

Owner(s):	STEVEN R LEISLE
Property Address:	CO

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48291730300018
Property Type:	MISCELLANEOUS

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To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	12/29/2012
Seller Name:	CFS INVESTMENTS LLC
Deed Type:	GRANT DEED
Document Type:	BARGAIN & SALE DEED
Type of Transaction:	NOMINAL
Recording Date:	01/16/2013
Document Number:	1059298
Construction Type:	SALE IS A RE-SALE
Multiple Parcel Sale:	MULTIPLE PARCEL SALE

Owner Information

Owner(s):	STEVEN R & DANIEL M LEISLE
Ownership Rights:	TENANTS IN COMMON
Absentee Owner:	SITUS FROM SALE (ABSENTEE)
Property Address:	60 FORREST GROVES LN DURANGO, CO 81301-8354
Mailing Address:	369 SEA LAKE LN PONTE VEDRA BEACH, FL 32082-4756

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R434342

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	1686

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	10/17/2005
Seller Name:	OWNER RECORD
Deed Type:	QUIT CLAIM DEED
Document Type:	QUIT CLAIM DEED
Type of Transaction:	NOMINAL
Recording Date:	2005
Document Number:	922700
Construction Type:	SALE IS A RE-SALE
Multiple Parcel Sale:	MULTI / DETAIL PARCEL SALE

Owner Information

Owner(s):	STEVEN R & DANIEL M LEISLE
Property Address:	CO

Property Information

County:	LA PLATA
Assessor's Parcel Number:	559536105030
Property Type:	RESIDENTIAL CONDOMINIUM
Building Square Feet:	1425

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	DANIEL M & STEVEN R LEISLE
Owner Relationship:	MARRIED MAN
Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Property Address:	402 28TH ST DURANGO, CO 81301-4108
Mailing Address:	402 28TH ST DURANGO, CO 81301-4108

Transaction Information

Transaction Date:	08/23/2011
Deed Type:	TRUST DEED/ MORTGAGE
Document Type:	DEED OF TRUST
Type of Transaction:	REFINANCE
Mortgage Amount:	$180,000.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	15 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	08/23/2011
Mortgage Due Date:	09/01/2026
Lender Name:	US BK NATIONAL ASSN
Address:	OWENSBORO, KY 42301
Recording Date:	08/23/2011
Document Number:	1034918
	COLORADO LAND TITLE CO
Refinance Loan:	LOAN TO VALUE IS MORE THAN 50%

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R420102

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	1208

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	STEVEN R LEISLE
Property Address:	MINERAL ST SILVERTON, CO 81433
Mailing Address:	PO BOX 848 SILVERTON, CO 81433-0848

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48291730620012
Property Type:	VACANT

Transaction Information

Transaction Date:	08/18/2017
Seller Name:	BAKERS PARK LLC
Sale Price:	$85,100.00
Deed Type:	GRANT DEED
Document Type:	WARRANTY DEED
Type of Transaction:	RESALE
Mortgage Amount:	$25,000.00
Mortgage Type:	PRIVATE PARTY LENDER
Mortgage Term:	2 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	08/18/2017
Mortgage Due Date:	08/18/2019
Interest Rate:	FIXED RATE LOAN
Lender Name:	PRIVATE INDIVIDUALBAKER'S PARK LLC
Address:	DURANGO, CO 81301-4726
Recording Date:	08/18/2017
Document Number:	151280

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	COLORADO TITLE & CLOSING SVCS
Private Party Lender:	YES
Construction Type:	SALE IS A RE-SALE
Purchase Payment:	MORTGAGE

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	BRESNITZ SVETLANA LIVING TRUST
Ownership Rights:	LIVING TRUST
Corporate Owner:	CORPORATE OWNER
Property Address:	7 MINERAL ST SILVERTON, CO 81433
Mailing Address:	1166 RIVERBEND CT ALAMOSA, CO 81101-5104

Property Information

County:	SAN JUAN

Transaction Information

Transaction Date:	10/15/2018
Seller Name:	LEISLE STEVEN R
Sale Price:	$73,100.00
Deed Type:	GRANT DEED
Document Type:	WARRANTY DEED
Type of Transaction:	RESALE
Recording Date:	10/15/2018
Document Number:	152017
	COLORADO TITLE & CLOSING SVCS
Construction Type:	SALE IS A RE-SALE
InterFamily Transaction:	RELEASE OF DEED OF TRUST/MTG
Purchase Payment:	CASH

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Assessor's Parcel Number:	48291730620112
Property Type:	VACANT
Land Use:	RESIDENTIAL ACREAGE

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	05/21/2004
Deed Type:	DEED OF TRUST
Type of Transaction:	REFINANCE
Mortgage Amount:	$90,000.00
Mortgage Type:	CONVENTIONAL
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	05/21/2004
Interest Rate:	ADJUSTABLE
Lender Name:	FIRST NAT'L BK/ DURANGO
Address:	DURANGO, CO 81302
Recording Date:	06/02/2004
Document Number:	885851
Equity Loan:	SECOND

Owner Information

Owner(s):	STEVEN R LEISLE
Additional Owner:	LEISLE STEVEN R
Additional Owner:	LEISLE DANIEL M
Property Address:	301 32ND ST DURANGO, CO 81301-6011
Mailing Address:	301 32ND ST DURANGO, CO 81301-6011

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R015642

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	10/17/2005
Seller Name:	OWNER RECORD
Deed Type:	QUIT CLAIM DEED
Document Type:	QUIT CLAIM DEED
Type of Transaction:	NOMINAL
Recording Date:	2005
Document Number:	922700
Construction Type:	SALE IS A RE-SALE
Multiple Parcel Sale:	MULTI / DETAIL PARCEL SALE

Owner Information

Owner(s):	STEVEN R & DANIEL M LEISLE
Property Address:	40 FORREST GROVES LN 2 DURANGO, CO 81301-8354

Property Information

County:	LA PLATA
Assessor's Parcel Number:	559536105031
Property Type:	RESIDENTIAL CONDOMINIUM
Building Square Feet:	1425

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

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To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	10/01/1978
Seller Name:	HILL NELLIE J
Deed Type:	GRANT DEED
Document Type:	DEED
Type of Transaction:	RESALE
Construction Type:	SALE IS A RE-SALE

Owner Information

Owner(s):	STEVEN R LEISLE
Property Address:	CO

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48291730300009
Property Type:	VACANT
Land Use:	COMMERCIAL LOT

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Real Property Transaction Record

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Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	STEVEN R & DANIEL M LEISLE
Property Address:	1043 MINERAL ST SILVERTON, CO 81433
Mailing Address:	PO BOX 444 SILVERTON, CO 81433-0444

Transaction Information

Transaction Date:	11/29/2011
Seller Name:	FEDERAL HM LN MTG CORP
Sale Price:	$90,000.00
Deed Type:	GRANT DEED
Document Type:	SPECIAL WARRANTY DEED
Type of Transaction:	RESALE
Recording Date:	12/27/2011
Document Number:	148290
	CHICAGO TITLE SERVICELINK DIV
Construction Type:	SALE IS A RE-SALE
Purchase Payment:	CASH
Foreclosure Sale:	REO SALE - SALE FROM GOVERNMENT TO PRIVATE PARTY

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48291730350011
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	822

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

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Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	05/30/2007
Seller Name:	LEISLE STEVEN R
Sale Price:	$97,500.00
Deed Type:	GRANT DEED
Document Type:	WARRANTY DEED
Type of Transaction:	RESALE
Recording Date:	05/31/2007
Document Number:	145714
	LAND TITLE GUARANTEE
Construction Type:	SALE IS A RE-SALE

Owner Information

Owner(s):	TIM MURRAY
Property Address:	SILVERTON, CO 81433
Mailing Address:	1275 RIVERSIDE DR ASPEN, CO 81611-2230

Property Information

County:	SAN JUAN
Property Type:	MISCELLANEOUS

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	05/14/2003
Seller Name:	TAYLOR KENT
Sale Price:	$30,800.00
Deed Type:	GRANT DEED
Document Type:	DEED

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Type of Transaction:	RESALE
Recording Date:	2003
Document Number:	142609
Construction Type:	SALE IS A RE-SALE

Owner Information

Owner(s):	STEVEN R LEISLE
Property Address:	CO

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290150010013
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

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To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	03/01/1977
Seller Name:	POST DAVID & ELAINE
Sale Price:	$12,000.00
Deed Type:	GRANT DEED
Document Type:	DEED
Type of Transaction:	RESALE
Construction Type:	SALE IS A RE-SALE

Owner Information

Owner(s):	STEVEN R LEISLE
Property Address:	CO

Property Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	SAN JUAN
Assessor's Parcel Number:	48291730350004
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	495

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	DANIEL M & STEVEN R LEISLE
Owner Relationship:	MARRIED MAN
Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Property Address:	735 3RD ST DURANGO, CO 81301-5758
Mailing Address:	735 3RD ST

Transaction Information

Transaction Date:	11/09/2012
Deed Type:	TRUST DEED/ MORTGAGE
Document Type:	DEED OF TRUST
Type of Transaction:	REFINANCE
Mortgage Amount:	$147,500.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	15 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	11/09/2012
Mortgage Due Date:	12/01/2027
Lender Name:	BANK OF AMERICA
Address:	JACKSONVILLE, FL 32256
Recording Date:	11/13/2012
Document Number:	1055719
	CLT COLORADO LAND TITLE CO
Refinance Loan:	LOAN TO VALUE IS MORE THAN 50%

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-5758

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R004146
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	1163

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	06/12/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	STEVEN R LEISLE
Property Address:	4522 COUNTY ROAD 2 SILVERTON, CO 81433
Mailing Address:	1038 EMPIRE ST SILVERTON, CO 81433

Transaction Information

Transaction Date:	08/22/2013
Seller Name:	BANK OF THE WEST
Sale Price:	$39,100.00
Deed Type:	GRANT DEED
Document Type:	SPECIAL WARRANTY DEED
Type of Transaction:	RESALE
Recording Date:	08/23/2013
Document Number:	149166
	LAND TITLE GUARANTEE
Construction Type:	SALE IS A RE-SALE
Purchase Payment:	CASH

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Foreclosure Sale:	REO SALE - SALE FROM GOVERNMENT TO PRIVATE PARTY

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	47730300055000
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	PLANNED UNIT DEVELOPMENT

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

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Vehicle Registrations (7)

To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	ID206860CO
Vehicle Type:	UNKNOWN
Model Year:	1992
Make:	HMD
Body Style:	TL

Registration Information

License Plate Number:	L70466
Issuing State:	CO

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Previous Plate Number:	L70466
Previous Plate State:	CO
Registration Renewal Date:	09/30/2008
Expiration Date:	10/31/2009
Registrant(s) Since:	10/04/1996
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN
License Plate Number:	L70466
Issuing State:	CO
Previous Plate Number:	L70466
Previous Plate State:	CO
Registration Renewal Date:	09/25/2007
Expiration Date:	10/31/2008
Registrant(s) Since:	10/04/1996
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

End of Document

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	F26YKA28184
Vehicle Type:	PASSENGER CAR
Model Year:	1976
Make:	FORD
Body Style:	PICKUP
Model/Series:	F250 BASE

Registration Information

License Plate Number:	18932VV
Issuing State:	CO
Previous Plate Number:	18932VV
Previous Plate State:	CO
Registration Renewal Date:	11/12/2019
Expiration Date:	11/30/2020
Registrant(s) Since:	09/30/1998
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Title Information:

Original Title Date:	09/30/1998
Title Number:	20E377169
Name:	STEVEN R. LEISLE
Interest:	OWNER
Title Transaction Date:	10/19/1998
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 1

Registration Renewal Date:	06/08/2009
Expiration Date:	06/30/2010
License Plate Number:	18932VV
Issuing State:	CO
Previous Plate Number:	18932VV
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 2

Registration Renewal Date:	07/31/2007
Expiration Date:	09/30/2005
License Plate Number:	18932VV
Issuing State:	CO
Previous Plate Number:	18932VV
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	11038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Thomson Reuters. No claim to original U.S. Government Works.

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Historical DMV Record 3

Registration Renewal Date:	08/27/2004
Expiration Date:	09/30/2005
License Plate Number:	18932VV
Issuing State:	CO
Previous Plate Number:	18932VV
Previous Plate State:	CO
Name:	STEVE LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 827 827 SILVERTON, CO 81433-0827
County:	SAN JUAN
Physical Address:	11038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	08/27/2004
Expiration Date:	09/30/2005
License Plate Number:	18932VV
Issuing State:	CO
Name:	STEVE LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 827 827 SILVERTON, CO 81433-0827
County:	SAN JUAN
Physical Address:	11038 EMPIRE ST PO BOX 827 827 SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 4

Title Transfer Date:	09/30/1998
Name:	STEVEN R. LEISLE
Interest:	OWNER
Mailing Address:	301 E 32ND ST DURANGO, CO 81301-6011
County:	LA PLATA

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Physical Address:	301 E 32ND ST DURANGO, CO 81301-6011
County:	LA PLATA
Title Transfer Date:	09/30/1998
Name:	STEVE LEISLE
Interest:	OWNER
Mailing Address:	301 E 32ND ST DURANGO, CO 81301-6011
County:	LA PLATA
Physical Address:	301 E 32ND ST DURANGO, CO 81301-6011
County:	LA PLATA

End of Document

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	JT4UN22D6V0047216
Vehicle Type:	PASSENGER CAR
Model Year:	1997
Make:	TOYOTA
Body Style:	XTRA CAB 2D
Model/Series:	T100 DX

Registration Information

License Plate Number:	463BIA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	463BIA
Previous Plate State:	CO

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Registration Renewal Date:	08/19/2019
Expiration Date:	09/30/2020
Registrant(s) Since:	09/08/2000
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 BLAIR ST SILVERTON, CO 81433
County:	SAN JUAN

Title Information:

Original Title Date:	08/13/1997
Title Number:	20E362126
Name:	TOYOTA MOTOR CREDIT CORP.
Interest:	OWNER
Title Transaction Date:	08/13/1997
Mailing Address:	PO BOX 440686 440686 AURORA, CO 80044-0686
County:	ADAMS
Physical Address:	435 BRONK ST MONTE VISTA, CO 81144-1154
County:	RIO GRANDE

Historical DMV Record 1

Registration Renewal Date:	08/30/2018
Expiration Date:	09/30/2019
License Plate Number:	463BIA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	463BIA
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 BLAIR ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 2

Registration Renewal Date:	08/28/2017
Expiration Date:	09/30/2018
License Plate Number:	463BIA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	463BIA
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 BLAIR ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 3

Registration Renewal Date:	08/24/2016
Expiration Date:	09/30/2017
License Plate Number:	463BIA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	463BIA
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 4

Registration Renewal Date:	08/25/2015
Expiration Date:	09/30/2016
License Plate Number:	463BIA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	463BIA
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 5

Registration Renewal Date:	08/27/2014
Expiration Date:	09/30/2015
License Plate Number:	463BIA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	463BIA
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Thomson Reuters. No claim to original U.S. Government Works.

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Historical DMV Record 6

Registration Renewal Date:	08/29/2013
Expiration Date:	09/30/2014
License Plate Number:	463BIA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	463BIA
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 7

Registration Renewal Date:	09/12/2012
Expiration Date:	09/30/2013
License Plate Number:	463BIA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	463BIA
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 8

Registration Renewal Date:	10/03/2011

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Expiration Date:	09/30/2012
License Plate Number:	463BIA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	463BIA
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 9

Registration Renewal Date:	08/27/2010
Expiration Date:	09/30/2011
License Plate Number:	463BIA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	463BIA
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 10

Registration Renewal Date:	08/25/2009
Expiration Date:	09/30/2010
License Plate Number:	463BIA
Issuing State:	CO

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Plate Type:	PRIVATE
Previous Plate Number:	463BIA
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 11

Registration Renewal Date:	08/29/2008
Expiration Date:	09/30/2009
License Plate Number:	463BIA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	463BIA
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 12

Registration Renewal Date:	09/04/2007
Expiration Date:	09/30/2008
License Plate Number:	463BIA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	463BIA
Previous Plate State:	CO

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Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 13

Registration Renewal Date:	08/28/2006
Expiration Date:	09/30/2007
License Plate Number:	463BIA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	463BIA
Previous Plate State:	CO
Name:	STEVE LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 827 827 SILVERTON, CO 81433-0827
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	08/28/2006
Expiration Date:	09/30/2007
License Plate Number:	463BIA
Issuing State:	CO
Name:	STEVE LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 827 827 SILVERTON, CO 81433-0827
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST PO BOX 827 827

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	SILVERTON, CO 81433
County:	SAN JUAN

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	J21SK43A122101337
Vehicle Type:	UNKNOWN
Model Year:	2002
Make:	SUZ
Body Style:	MC

Registration Information

License Plate Number:	359BJP
Issuing State:	CO
Plate Type:	MOTORCYCLE
Previous Plate Number:	359BJP
Previous Plate State:	CO
Registration Renewal Date:	08/01/2008
Expiration Date:	08/31/2009
Registrant(s) Since:	08/16/2002
Name:	STEVEN LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical DMV Record 1

Registration Renewal Date:	07/31/2007
Expiration Date:	08/31/2008
License Plate Number:	359BJP
Issuing State:	CO
Plate Type:	MOTORCYCLE
Previous Plate Number:	359BJP
Previous Plate State:	CO
Name:	STEVEN LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 2

Title Transfer Date:	08/16/2002
Name:	STEVEN LEISLE
Interest:	OWNER
Mailing Address:	PO BOX 827 827 SILVERTON, CO 81433-0827
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	WMZYV9C33J3B92175
Vehicle Type:	PASSENGER CAR
Model Year:	2018
Make:	MINI
Body Style:	HATCHBACK 4D
Model/Series:	COOPER COUNTRYMAN JOHN COOPER WORKS ALL4

Registration Information

License Plate Number:	FKO897
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	FKO897
Previous Plate State:	CO
Registration Renewal Date:	05/28/2020
Expiration Date:	05/31/2021
Registrant(s) Since:	05/08/2018
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	10224 EAGLE FEATHER PL LITTLETON, CO 80125-8309
County:	DOUGLAS
Physical Address:	10224 EAGLE FEATHER PL LITTLETON, CO 80125-8309
County:	DOUGLAS

Title Information:

Name:	R. LEISLE STEVEN
Interest:	OWNER
Title Transaction Date:	05/17/2019
Mailing Address:	10224 EAGLE FEATHER PL LITTLETON, CO 80125-8309
County:	DOUGLAS
Physical Address:	10224 EAGLE FEATHER PL LITTLETON, CO 80125-8309

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County:	DOUGLAS

Lien Holder Information

Name:	BMW BANK OF NORTH AMERICA
Interest:	LIEN HOLDER
Mailing Address:	UNKNOWN

Historical DMV Record 1

Registration Renewal Date:	05/17/2019
Expiration Date:	05/31/2020
License Plate Number:	FKO897
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	FKO897
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	10224 EAGLE FEATHER PL LITTLETON, CO 80125-8309
County:	DOUGLAS
Physical Address:	10224 EAGLE FEATHER PL LITTLETON, CO 80125-8309
County:	DOUGLAS
Registration Renewal Date:	05/17/2019
Expiration Date:	05/31/2020
Name:	R. LEISLE STEVEN
Interest:	REGISTRANT
Mailing Address:	10224 EAGLE FEATHER PL LITTLETON, CO 80125-8309
County:	DOUGLAS
Physical Address:	10224 EAGLE FEATHER PL LITTLETON, CO 80125-8309
County:	DOUGLAS
Title Transfer Date:	05/17/2019
Name:	STEVEN R. LEISLE
Interest:	OWNER
Mailing Address:	10224 EAGLE FEATHER PL LITTLETON, CO 80125-8309
County:	DOUGLAS

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Physical Address:	10224 EAGLE FEATHER PL LITTLETON, CO 80125-8309
County:	DOUGLAS

Historical DMV Record 2

Title Transfer Date:	06/04/2018
Name:	STEVEN R. LEISLE
Interest:	OWNER
Mailing Address:	10224 EAGLE FEATHER PL LITTLETON, CO 80125-8309
County:	DOUGLAS
Physical Address:	10224 EAGLE FEATHER PL LITTLETON, CO 80125-8309
County:	DOUGLAS
Registration Renewal Date:	05/08/2018
Expiration Date:	05/31/2019
License Plate Number:	FKO897
Issuing State:	CO
Plate Type:	PRIVATE
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	10224 EAGLE FEATHER PL LITTLETON, CO 80125-8309
County:	DOUGLAS
Physical Address:	10224 EAGLE FEATHER PL LITTLETON, CO 80125-8309
County:	DOUGLAS
Title Transfer Date:	04/23/2018
Name:	BMW BANK OF NORTH AMERICA
Interest:	LIEN HOLDER
Mailing Address:	5550 BRITTON PKWY HILLIARD, OH 43026-7456
County:	FRANKLIN

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To Summary

Motor Vehicle Record

Source Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	JS1SP44A3N2100615
Vehicle Type:	MOTORCYCLE
Model Year:	1992
Make:	SUZUKI
Body Style:	MC
Model/Series:	DR650SN BASE

Registration Information

License Plate Number:	V728Z
Issuing State:	CO
Previous Plate Number:	V728Z
Previous Plate State:	CO
Registration Renewal Date:	05/04/2000
Expiration Date:	05/31/2001
Registrant(s) Since:	05/06/1996
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	301 E 32ND ST DURANGO, CO 81301-6011
County:	LA PLATA
Physical Address:	301 E 32ND ST DURANGO, CO 81301-6011
County:	LA PLATA

Title Information:

Original Title Date:	02/27/2002
Title Number:	20E424797
Name:	HUGH WINTERS
Interest:	OWNER
Title Transaction Date:	02/27/2002
Mailing Address:	176 LAKEWOOD DR

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	DURANGO, CO 81301-8722
County:	LA PLATA
Physical Address:	176 LAKEWOOD DR DURANGO, CO 81301-8722
County:	LA PLATA

Historical DMV Record 1

Registration Renewal Date:	05/04/2000
Expiration Date:	05/31/2001
License Plate Number:	V728Z
Issuing State:	CO
Name:	STEVE LEISLE
Interest:	REGISTRANT
Mailing Address:	301 E 32ND ST DURANGO, CO 81301-6011
County:	LA PLATA
Physical Address:	301 E 32ND ST DURANGO, CO 81301-6011
County:	LA PLATA

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	JF1GH75638G806677
Vehicle Type:	PASSENGER CAR
Model Year:	2008
Make:	SUBARU
Body Style:	WAGON 4D 5P
Model/Series:	IMPREZA WRX

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Registration Information

License Plate Number:	BPK945
Issuing State:	CO
Previous Plate Number:	BPK945
Previous Plate State:	CO
Registration Renewal Date:	08/30/2019
Expiration Date:	08/31/2020
Registrant(s) Since:	08/17/2018
Name:	AUDREY ARIELLE MCCABE
Interest:	REGISTRANT
Mailing Address:	239 RIVERVIEW DR DURANGO, CO 81301-4351
County:	LA PLATA
Physical Address:	239 RIVERVIEW DR DURANGO, CO 81301-4351
County:	LA PLATA

Title Information:

Name:	AUDREY ARIELLE MCCABE
Interest:	OWNER
Title Transaction Date:	08/01/2018
Mailing Address:	239 RIVERVIEW DR DURANGO, CO 81301-4351
County:	LA PLATA
Physical Address:	239 RIVERVIEW DR DURANGO, CO 81301-4351
County:	LA PLATA

Lien Holder Information

Name:	CAPITAL ONE AUTO FINANCE
Interest:	LIEN HOLDER
Mailing Address:	PO BOX 255605 255605 SACRAMENTO, CA 95865-5605
County:	SACRAMENTO

Historical DMV Record 1

Registration Renewal Date:	08/17/2018
Expiration Date:	08/31/2019

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

License Plate Number:	BPK945
Issuing State:	CO
Previous Plate Number:	019NVK
Previous Plate State:	CO
Name:	AUDREY ARIELLE MCCABE
Interest:	REGISTRANT
Mailing Address:	239 RIVERVIEW DR DURANGO, CO 81301-4351
County:	LA PLATA
Physical Address:	239 RIVERVIEW DR DURANGO, CO 81301-4351
County:	LA PLATA

Historical DMV Record 2

Registration Renewal Date:	10/23/2017
Expiration Date:	11/30/2018
License Plate Number:	019NVK
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	019NVK
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 901098 901098 FORT WORTH, TX 76101-2098
County:	TARRANT
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 3

Registration Renewal Date:	10/14/2016
Expiration Date:	11/30/2017
License Plate Number:	019NVK
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	019NVK
Previous Plate State:	CO

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 901098 901098 FORT WORTH, TX 76101-2098
County:	TARRANT
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 4

Registration Renewal Date:	10/29/2015
Expiration Date:	11/30/2016
License Plate Number:	019NVK
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	019NVK
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 901098 901098 FORT WORTH, TX 76101-2098
County:	TARRANT
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 5

Registration Renewal Date:	10/31/2014
Expiration Date:	11/30/2015
License Plate Number:	019NVK
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	019NVK
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444

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	444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 6

Registration Renewal Date:	10/31/2013
Expiration Date:	11/30/2014
License Plate Number:	019NVK
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	019NVK
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 7

Registration Renewal Date:	10/22/2012
Expiration Date:	11/30/2013
License Plate Number:	019NVK
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	019NVK
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN

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Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 8

Registration Renewal Date:	11/15/2011
Expiration Date:	11/30/2012
License Plate Number:	019NVK
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	019NVK
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 9

Registration Renewal Date:	10/25/2010
Expiration Date:	11/30/2011
License Plate Number:	019NVK
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	019NVK
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

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Historical DMV Record 10

Registration Renewal Date:	10/26/2009
Expiration Date:	11/30/2010
License Plate Number:	019NVK
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	019NVK
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 11

Registration Renewal Date:	11/21/2008
Expiration Date:	11/30/2009
License Plate Number:	019NVK
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	019NVK
Previous Plate State:	CO
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 12

Registration Renewal Date:	11/16/2007

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Expiration Date:	11/30/2008
License Plate Number:	019NVK
Issuing State:	CO
Plate Type:	PRIVATE
Name:	STEVEN R. LEISLE
Interest:	REGISTRANT
Mailing Address:	PO BOX 444 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Physical Address:	1038 EMPIRE ST SILVERTON, CO 81433
County:	SAN JUAN

End of Document

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Professional Licenses (1)

To Summary

Professional License Record

Source Information

Information Current Through:	06/26/2020
Database Last Updated:	08/03/2020
Update Frequency:	QUARTERLY
Current Date:	08/12/2020
Source:	CO DEPARTMENT OF REGULATORY AGENCIES

Licensing Information

Licensing Agency:	CO DEPARTMENT OF REGULATORY AGENCIES
License/Certification Type:	ELECTRICAL APPRENTICE
License Number:	44997
Issue Date:	06/08/2011
License Status:	ACTIVE
Renewal Date:	06/08/2011
License State:	CO

Name & Professional Information

Name:	STEVEN R LEISLE
Address:	PO BOX 444 SILVERTON, CO 81433-1433

Employer Information

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Organization:	PERSON

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Corporate Records & Business Registrations (1)

To Summary

Corporate Records & Business Registrations

Source Information

Information Current Through:	08/04/2020
Database Last Updated:	08/12/2020
Update Frequency:	WEEKLY
Current Date:	08/12/2020
Source:	AS REPORTED BY THE SECRETARY OF STATE OR OTHER OFFICIAL SOURCE

Company Information

Name:	SILVERTON REALTY, INC.
Address:	PO BOX 444 SILVERTON, CO 81433
D&B DUNS:	14-814-6058

Filing Information

Identification Number:	20031394717
Filing Date:	01/01/2004
State of Incorporation:	COLORADO
Date Incorporated:	01/01/2004
Status:	GOOD STANDING
Corporation Type:	NOT AVAILABLE
Business Type:	CORPORATION
Address Type:	MAILING
Where Filed:	DEPT OF STATE/ DIVISION OF

Registered Agent Information

Name:	STEVEN R. LEISLE
Address:	1038 BLAIR STREET SILVERTON, CO 81433

Amendment Information

Amendments:	07/23/2020 MISCELLANEOUS FILE REPORT;CHANGE OF REGISTERED AGENT ADDRESS
	07/24/2019 MISCELLANEOUS FILE REPORT;CHANGE OF ENTITY ADDRESS
	11/01/2018 MISCELLANEOUS FILE REPORT
	11/02/2017 MISCELLANEOUS FILE REPORT
	11/01/2016 MISCELLANEOUS FILE REPORT
	11/04/2015 MISCELLANEOUS FILE REPORT

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	COMMERCIAL RECORDINGS
	1560 BROADWAY DENVER, CO 80202

	11/07/2014 MISCELLANEOUS FILE REPORT
	08/12/2013 MISCELLANEOUS FILE REPORT
	02/11/2013 MISCELLANEOUS STATEMENT OF CHANGE CHANGING THE REGISTERED AGENT INFORMATION;REGISTERED AGENT INFORMATION CHANGED;
	08/08/2012 MISCELLANEOUS STATEMENT CURING DELINQUENCY
	03/30/2011 MISCELLANEOUS FILE REPORT
	01/25/2010 MISCELLANEOUS STATEMENT CURING DELINQUENCY
	10/15/2008 MISCELLANEOUS AMEND ARTICLES OF INCORPORATION FOR A PROFIT CORPORATION;CHANGE OF ENTITY NAME
	07/23/2007 MISCELLANEOUS STATEMENT CURING DELINQUENCY
	06/02/2006 MISCELLANEOUS FILE REPORT;CHANGE OF REGISTERED AGENT

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	ADDRESS / CHANGE OF ENTITY ADDRESS
	04/29/2005 MISCELLANEOUS FILE REPORT;CHANGE OF REGISTERED AGENT / CHANGE OF REGISTERED AGENT ADDRESS
	05/04/2004 MISCELLANEOUS ENTITY NAME CHANGE;SILVERTON REAL ESTATE, INC.
	01/01/2004 MISCELLANEOUS AMENDMENT;ART REC'D 12/12/03 DELAYED EFFECTIVE DATE
The preceding public record data is for information purposes only and is not the official record. Certified copies can only be obtained from the official source.	
The public record items reported above may have been paid, terminated, vacated or released prior to today's date.	

Order Documents

Call Westlaw CourtExpress at 1-877-DOC-RETR (1-877-362-7387) for on-site manual retrieval of documents related to this or other matters. Additional charges apply.

End of Document

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Household Records (5)

To Summary

People Finder Household-Centric Record

Source Information

Household Information:

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Information Current Through:	05/26/2020	**Address:**	PO BOX 827 SILVERTON, CO 81433-0827
Database Last Updated:	07/20/2020		
Update Frequency:	MONTHLY	**County:**	SAN JUAN
Current Date:	08/12/2020	**Latitude/Longitude:**	37.762765/-107.677145
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.	**Address First Reported:**	1992

Head of Household Information

Head of Household:	MR STEVEN R LEISLE
Gender:	MALE
Date of Birth:	05/XX/1958
Name/Address Confirmed:	10/2012
Marital Status:	SINGLE

End of Document

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To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	1038 BLAIR ST SILVERTON, CO 81433
County:	SAN JUAN
Latitude/Longitude:	37.762765/-107.677145
Residence Type:	SINGLE FAMILY DWELLING
Address First Reported:	2001
Telephone:	970-387-0111
Service Type:	VOICE LINE

Head of Household Information

Head of Household:	MR STEVEN R LEISLE
Gender:	MALE
Name/Address Confirmed:	11/2012
Marital Status:	SINGLE

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To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	60 FORREST GROVES LN DURANGO, CO 81301-8354
County:	LA PLATA
Latitude/Longitude:	37.349106/-107.694153
Residence Type:	SINGLE FAMILY DWELLING
Address First Reported:	2013

Head of Household Information

Head of Household:	MR STEVEN R LEISLE
Gender:	MALE
Name/Address Confirmed:	01/2013
Marital Status:	MARRIED

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To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	1038 EMPIRE ST SILVERTON, CO 81433-5052
County:	SAN JUAN
Latitude/Longitude:	-107.675394/37.766411
Residence Type:	SINGLE FAMILY DWELLING
Address First Reported:	2009

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Head of Household Information

Head of Household:	MR STEVEN R LEISLE
Gender:	MALE
Date of Birth:	05/XX/1958
Name/Address Confirmed:	11/2018
Marital Status:	SINGLE

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To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	PO BOX 444 SILVERTON, CO 81433-0444
County:	SAN JUAN
Latitude/Longitude:	-107.664879/37.812207
Address First Reported:	2010
Reported Occupation:	BLUE COLLAR/SKILLED TRADESMAN

Head of Household Information

Head of Household:	MR STEVEN R LEISLE
Gender:	MALE
Date of Birth:	05/XX/1958
Name/Address Confirmed:	09/2019
Marital Status:	SINGLE

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Possible Relatives & Household Members

Household Records

PO BOX 827 SILVERTON, CO 81433-0827 | Full-Text

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Address First Reported:	1992	Confidence Score:	85
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MR STEVEN R LEISLE	Head of Household	05/XX/1958	10/2012

1038 BLAIR ST SILVERTON, CO 81433 | Full-Text

Address First Reported:	2001	Phone:	970-387-0111	Confidence Score:	88
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**		
MR STEVEN R LEISLE	Head of Household	N/A	11/2012		

60 FORREST GROVES LN DURANGO, CO 81301-8354 | Full-Text

Address First Reported:	2013	Confidence Score:	85
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MR STEVEN R LEISLE	Head of Household	N/A	01/2013

1038 EMPIRE ST SILVERTON, CO 81433-5052 | Full-Text

Address First Reported:	2009	Confidence Score:	99
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MR STEVEN R LEISLE	Head of Household	05/XX/1958	11/2018

PO BOX 444 SILVERTON, CO 81433-0444 | Full-Text

Address First Reported:	2010	Confidence Score:	99
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MR STEVEN R LEISLE	Head of Household	05/XX/1958	09/2019

Possible Named Parties

People Associations

TIMOTHY MURRAY	ELEANORA M BECKER
COLE P EDEN	RUTH H LEISLE
JEFFREY A STOUT	SVETLANA BRESNITZ
NICHOLAS H LEISLE	RALPH D LEISLE

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BLAIR CLARK	ROBERTA C CARLL
JOHN D SHADDOCK	DANIEL M LEISLE
ANNEBRITT OSTLUND	KAREN SREBACIC
MARKUS SCHENK	JOHN D SITES
BONNIE G LEISLE	HUGH WINTERS
LEIGH LEISLE	ANNETTE M ANDRES
DANIEL M LEISLE	JOHN ANDRES
GAYLE R WEBSTER	AUDREY A MCCABE
LARRY ZASTROW	

Business Associations

LTCI DECISION SYSTEMS INC	DURANGO SILVERTON REALTY, INC
BANK OF AMERICA	BAKERS PARK LLC
TAYLOR, KENT	BOBBIE CARL REALTY

No Documents Found

No Documents Were Found In These Sources

Aircraft Records	Bankruptcy Records
BusFindUS	Conceal & Carry Weapons Permits
Death Records	Divorce Records
DMI	Email Address Records
Executive Bios	FBN/DBA
FEIN	Healthcare Licenses
Hunting & Fishing Licenses	Lawsuit Records
Liens & Judgments	Marriage Records
New Movers Records	Real Property Pre-Foreclosure Records
Stock	UCC Records
Unclaimed Assets	Watercraft Records

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VOTERS - Use in connection with a non-commercial purpose.
Skip Tracing for Consumer Collections Declaration - Are you using this product for skip tracing related to consumer debt collection? - No

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Possible People Information 2
Person Overview 2
Date of Birth Summary 2
SSN Summary 2
Name Variations 2
Addresses 3
Divorce Records 4
Voter Registrations 4
Political Donors 4
Phone Numbers 4
Possible Asset Information 4
Real Property Tax Assessor Records 4
Real Property Transactions 5
Vehicle Registrations 5
Possible Adverse Information 6
UCC Records 6
Possible Business & Employment 6
Corporate Records & Business Registrations 6
Full-Text Documents 6
All Full-Text Documents 6
Possible Relatives & Household Members 64
Household Records 64
Possible Named Parties 64
People Associations 64
Business Associations 65
No Documents Found 65
No Documents Were Found In These Sources 66
Permissible Uses and FCRA Disclaimer 66
Permissible Uses 66

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Possible People Information

Person Overview

CORINA J ANDREATTA

420 ALPINE DR

DURANGO, CO 81301-8213 | LA PLATA County

Phone Number(s):

970-385-7412

247-9312

SSN:

571-93-XXXX - issued in CA in 1987

DOB:

11/XX/1972 (Age: 47)

Date of Birth Summary

Date of Birth	Source
11/XX/1972 (Age: 47)	Address Historical #1 | Address Historical #2 | People Find | People Historical | People Household

SSN Summary

SSN	Source
571-93-XXXX - issued in CA in 1987	People Find | People Historical #1 | People Historical #2

Name Variations

Name	Source
CORINA JEAN TALLEY	People Find | People Historical
CORINA J HOLLISTER	People Find | People Historical
CORIN ANDREATTA	People Find
CORIN E ANDREATTA	People Find
CORINA ANDREATTA	People Find
CORINA HOLLISTER	People Find
J TALLEY CORINA	People Find
CORINA J TALLEY	Address Historical | People Find
C ANDREATTA	People Find

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CORINA TALLEY	Address Historical
CORINA JEAN ANDREATTA	Voters Registration

Addresses

Address	
420 ALPINE DR, DURANGO, CO 81301-8213 | LA PLATA County	
Reported 01/01/1997 - 03/25/2020	
By Motor Vehicle 05/05/2014 - 10/19/2018	Motor Vehicle #1 | Motor Vehicle #2 | Motor Vehicle #3
By People Household 01/01/1997 - 10/31/2014	People Household
By People Find 10/08/2005 - 10/08/2005	People Find
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2 | Real Property Deeds #3 | Real Property Deeds #4 | Real Property Deeds #5
By Real Property Tax Assessor	Real Property Tax Assessor #1 | Real Property Tax Assessor #2
By Voters Registration	Voters Registration
1424 MINERAL ST, SILVERTON, CO 81433 | SAN JUAN County	
Reported 02/22/2008 - 09/06/2019	
By Motor Vehicle 02/22/2008 - 02/22/2008	Motor Vehicle #1 | Motor Vehicle #2
PO BOX 682, SILVERTON, CO 81433-0682 | SAN JUAN County	
Reported 02/22/2008 - 02/22/2008	
By Motor Vehicle 02/22/2008 - 02/22/2008	Motor Vehicle
10 SUNRIDGE CIR, DURANGO, CO 81301-5860 | LA PLATA County	
Reported 02/25/2004 - 05/11/2004	
By People Find 05/11/2004 - 05/11/2004	People Find
By Real Property Deeds	Real Property Deeds #1 | Real Property Deeds #2 | Real Property Deeds #3
34237 HIGHWAY 550 APT 45, DURANGO, CO 81301-6105 | LA PLATA County	
Reported 02/01/2001 - 01/24/2003	
By People Find 02/01/2001 - 02/01/2001	People Find
2694 COUNTY ROAD 222, DURANGO, CO 81303-6834 | LA PLATA County	
Reported 01/24/2003 - 01/24/2003	
By People Find 01/24/2003 - 01/24/2003	People Find
13881 E TUSTIN DR UNIT 142, TUSTIN, CA 92780 | ORANGE County	
Reported 01/01/1994 - 01/23/2003	
By People Historical 01/01/1994 - 12/31/1994	People Historical
By People Find 08/01/1994 - 08/01/1994	People Find
14632 DONCASTER RD, IRVINE, CA 92604-2432 | ORANGE County	
Reported 01/01/1991 - 01/23/2003	
By People Find 03/01/1997 - 03/01/1997	People Find

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By People Historical 01/01/1991 - 12/31/1991	People Historical
13881 E TUSTIN DR 142, TUSTIN, CA 92780 | ORANGE County	
Reported 08/01/1994 - 08/01/1994	
By People Find 08/01/1994 - 08/01/1994	People Find
906 N TOWNER ST, SANTA ANA, CA 92703-2340 | ORANGE County	
Reported 01/01/1993 - 12/31/1993	
By People Historical 01/01/1993 - 12/31/1993	People Historical
14632 DON CASTER, SANTA ANA, CA 92714	
Reported 01/01/1991 - 12/31/1991	
By People Historical 01/01/1991 - 12/31/1991	People Historical
13881 TUSTIN EAST DR APT 142, TUSTIN, CA 92780-8825 | ORANGE County	
Reported N/A	
By Address Historical	Address Historical
2694 COUNTY RD, DURANGO, CO 81301 | LA PLATA County	
Reported N/A	
By Address Historical	Address Historical

Divorce Records

Date of Decree	State	Confidence Score	View Full Text
09/18/1998	CO	85%	Full-Text

Voter Registrations

Political Party	Last Voted Date	Confidence Score	View Full Text
NON DECLARED	11/06/2018	99%	Full-Text

Political Donors

Last Party Contributed To	Date of Last Contribution	Confidence Score	View Full Text
	03/31/2016	97%	Full-Text

Phone Numbers

Phone	Source
970-385-7412	People Find | People Household
247-9312	People Find

Possible Asset Information

Real Property Tax Assessor Records

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Property Address	Assessed Total Value	Tax Year	Confidence Score	View Full Text
420 ALPINE DR DURANGO, CO 81301-8213	$17,860.00	2018	99%	Full-Text
420 ALPINE DR DURANGO, CO 81301-8213	$17,950.00	2011	99%	Full-Text

Real Property Transactions

Property Address	Sale Price	Mortgage Amount	Recording Date	Confidence Score	View Full Text
420 ALPINE DR DURANGO, CO 81301-8213		$175,500.00	07/06/2020	99%	Full-Text
420 ALPINE DR DURANGO, CO 81301-8213		$250,000.00	02/17/2009	99%	Full-Text
420 ALPINE DR DURANGO, CO 81301-8213		$253,000.00	09/19/2006	99%	Full-Text
420 ALPINE DR DURANGO, CO 81301-8213		$260,000.00	11/15/2005	99%	Full-Text
10 SUNRIDGE CT DURANGO, CO 81301-5868		$32,000.00	08/17/2004	98%	Full-Text
420 ALPINE DR DURANGO, CO 81301-8213	$68,000.00	$51,000.00	08/17/2004	99%	Full-Text
10 SUNRIDGE CT DURANGO, CO 81301-5868		$155,200.00	09/08/2003	98%	Full-Text

Vehicle Registrations

Year	Make	Model	Registration Date	Confidence Score	View Full Text
Current Motor Vehicles					
2009	NISSAN	FRONTIER	04/27/2017	99%	Full-Text

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Year	Make	Model	Registration Date	Confidence Score	View Full Text
2006	TOYOTA	COROLLA	09/18/2008	99%	Full-Text
Historical Motor Vehicles					
2004	TOYOTA	TACOMA	11/06/2017	99%	Full-Text
1995	TOYOTA	CAMRY		65%	Full-Text

Possible Adverse Information

UCC Records

Debtor	Creditor	Confidence Score	View Full Text
ANDREATTA, CORINA J	THE FIRST NATIONAL BANK OF DURANGO	99%	Full-Text
ANDREATTA, CORINA J	THE FIRST NATIONAL BANK OF DURANGO	99%	Full-Text

Possible Business & Employment

Corporate Records & Business Registrations

Business Name	Business Address	Confidence Score	View Full Text
COMMUNITY REBUILDS SOUTHWEST COLORADO CHAPTER, DISSOLVED DECEMBER 31, 2012	420 ALPINE DR DURANGO, CO 81301	97%	Full-Text

Full-Text Documents

All Full-Text Documents

Divorce Records (1)

To Summary

Divorce Record

Source Information

Coverage Begin Date:	01/01/1968

Decree & Dissolution Information

County of Decree:	LA PLATA
Date of Decree:	09/18/1998

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Information Current Through:	06/30/2004
Database Last Updated:	10/28/2005
Update Frequency:	Not Applicable
Current Date:	08/12/2020
Source:	Office of Vital Statistics

Type of Decree:	DIVORCE

Order Documents

Call Westlaw CourtExpress at 1-877-DOC-RETR (1-877-362-7387) for on-site manual retrieval of documents related to this or other matters. Additional charges apply.

Name Information

Name:	CORINA JEAN TALLEY
Name:	JONATHAN HALE TALLEY

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Voter Registrations (1)

To Summary

Voter Registration Record

Source Information

Information Current Through:	01/07/2020
Database Last Updated:	05/22/2020
Update Frequency:	ANNUAL
Current Date:	08/12/2020

Voter History

General 2006	VOTED
General 2012	VOTED
General 2010	VOTED
Other 2008	VOTED
Last Date Voted:	11/06/2018

Name and Personal Information

Name:	CORINA JEAN ANDREATTA
Address:	420 ALPINE DR DURANGO, CO 81301-8213
Home Phone:	970-385-7412

Demographic Information

Date of Birth:	/XX1972
Age:	45-54
Gender:	FEMALE
Political Party:	NON DECLARED

Registration Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Voter Identification Number:	4949280
Motor Voter Identification Number:	200032346
Registration Date:	01/08/1997

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Political Donors (1)

To Summary

Political Donor Record

Source Information

Date Acquired:	09/21/2015
Database Last Updated:	05/22/2018
Update Frequency:	EVERY OTHER YEAR
Current Date:	08/12/2020

Donation Information

First Contribution Date:	03/31/2016
Amount:	$25.00
Last Contribution Date:	03/31/2016
Amount:	$25.00
Candidate/Committee/ PAC:	COLORADOCAREYES

Name and Personal Information

Name:	CORINA ANDREATTA
Address:	420 ALPINE DR DURANGO, CO 81301

Contribution Totals

Total:	$25.00

Employment Information

Occupation:	OFFICE AND ADMINISTRATIVE
Employer:	DURANGO ADULT EDUCATION CENTER

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Historical People Records (2)

To Summary

People Historical

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Individual Information

Name:	TALLEY, CORINA JEAN
SSN:	571-93-XXXX
Date of Birth:	11/XX/1972
On File Since:	08/01/1994

Historical Address Information

Address 1:	13881 E TUSTIN DR 142 TUSTIN, CA 92780
Address Last Reported:	1994

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To Summary

People Historical

Individual Information

Name:	HOLLISTER, CORINA J
SSN:	571-93-XXXX
On File Since:	03/01/1991

Historical Address Information

Address 1:	906 N TOWNER ST SANTA ANA, CA 92703-2340
Address Last Reported:	1993
Address Type:	STREET OR RESIDENTIAL ADDRESS
Address 2:	14632 DON CASTER RD SANTA ANA, CA 92604
Address Last Reported:	1991
Address 3:	14632 DON CASTER RD SANTA ANA, CA 92714
Address Last Reported:	1991

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Historical Address Records (2)

To Summary

Address Historical

Individual Information

Name:	TALLEY, CORINA
Date of Birth:	11/XX/1972

Historical Address Information

Address:	2694 COUNTY RD DURANGO, CO 81301

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To Summary

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Address Historical

Individual Information

Name:	TALLEY, CORINA J
Date of Birth:	11/XX/1972

Historical Address Information

Address:	13881 TUSTIN EAST DR # D TUSTIN, CA 92780-5368

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People Find Records (1)

To Summary

People Finder - Historic Tracker Record

Source Information

Information Current Through:	06/30/2020
Database Last Updated:	07/07/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	TRANS UNION

Last Known Address Information

Current Address:	420 ALPINE DR DURANGO, CO 81301-8213
Phone Number 1:	970-385-7412
Address First Reported:	10/08/2005

Individual Information

Name:	TALLEY, CORINA JEAN
Also Known As:	TALLEY, CORINA J HOLLISTER, CORINA J CORINA, J TALLEY ANDREATTA, CORIN ANDREATTA, CORIN E ANDREATTA, CORINA J ANDREATTA, CORINA ANDREATTA, C HOLLISTER, CORINA
SSN:	571-93-XXXX
Date of Birth:	11/XX/1972
Historic Phone Number:	247-9312

Other Address Information

Previous Address:	34237 HIGHWAY 550 DURANGO, CO 81301-6148
Address First Reported:	01/23/2003
Previous Address:	14632 DONCASTER RD IRVINE, CA 92604-2432
Address First Reported:	01/23/2003
Previous Address:	13881 TUSTIN DR 142 TUSTIN, CA 92780
Address First Reported:	01/23/2003
Previous Address:	34237 HIGHWAY 550 91 DURANGO, CO 81301-6109
Address First Reported:	01/24/2003

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

On File Since:	08/01/1994	**Previous Address:**	2694 COUNTY ROAD 222 DURANGO, CO 81303-6834
		Address First Reported:	01/24/2003
		Previous Address:	10 SUNRIDGE CT DURANGO, CO 81301-5868
		Address First Reported:	05/11/2004

End of Document

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Real Property Tax Assessor Records (2)

To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020
County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	ANDREATTA SHAWN T
	ANDREATTA CORINA J
Ownership Rights:	JOINT TENANCY
Absentee Owner:	OWNER OCCUPIED
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R418767
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	59677
Lot Acreage:	1.3700
Subdivision:	ALPINE SHADOWS #2

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Legal Description:	SUBDIVISION: ALPINE SHADOWS #2 BLOCK: 0 LOT: 58 ALPINE SHADOWS UNIT NO. 2 420 ALPINE DR DURANGO 81301
Lot Number:	58

Tax Assessment Information

Tax Year:	2018
Calculated Land Value:	$78,900.00
Calculated Improvement Value:	$169,110.00
Calculated Total Value:	$248,010.00
Assessed Land Value:	$5,680.00
Assessed Improvement Value:	$12,180.00
Assessed Total Value:	$17,860.00
Market Land Value:	$78,900.00
Market Improvement Value:	$169,110.00
Market Total Value:	$248,010.00
Valuation Method:	MARKET
Tax Amount:	$695.52
Tax Code Area:	1007

Building/Improvement Characteristics

Building Type:	SINGLE FAMILY
Number of Buildings:	1
Year Built:	20050000
Total Area:	59677RES IMPRV LAND
Living Square Feet:	1496
Number of Bedrooms:	3
Number of Bathrooms:	2.00
Full Baths:	2
Garage Type:	ATTACHED FINISHED GARAGE
Style/Shape:	CONVENTIONAL
Heat:	FORCED AIR

Last Market Sale Information

Sale Date:	08/17/2004
Seller Name:	MEHLMAN BEVERLY J
Sale Price:	$68,000.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mortgage Amount:	$51,000.00
Mortgage Loan Type:	CONVENTIONAL
Mortgage Deed Type:	DEED OF TRUST
Lender Name:	FIRST NAT'L BK/DURANGO
Recording Date:	08/17/2004
Document Number:	891371
Title Company:	LAND TITLE GUARANTEE

Previous Transaction Information

Number of Parcels:	Y Y

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2018
Calculated Land Value:	$87,600.00
Calculated Improvement Value:	$181,100.00
Calculated Total Value:	$268,700.00
Assessed Total Value:	$19,210.00
Assessor's Parcel Number:	R418767
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 2.	
Tax Year:	2017
Calculated Land Value:	$78,900.00
Calculated Improvement Value:	$169,110.00
Calculated Total Value:	$248,010.00
Assessed Total Value:	$17,860.00
Assessor's Parcel Number:	R418767
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical Tax Assessor Record: 3.	
Tax Year:	2016
Calculated Land Value:	$72,900.00
Calculated Improvement Value:	$157,010.00
Calculated Total Value:	$229,910.00
Assessed Total Value:	$18,300.00
Assessor's Parcel Number:	R418767
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 4.	
Tax Year:	2014
Calculated Land Value:	$72,900.00
Calculated Improvement Value:	$157,010.00
Calculated Total Value:	$229,910.00
Assessed Total Value:	$18,300.00
Assessor's Parcel Number:	R418767
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 5.	
Tax Year:	2014
Calculated Land Value:	$72,900.00
Calculated Improvement Value:	$140,810.00
Calculated Total Value:	$213,710.00
Assessed Total Value:	$17,010.00
Assessor's Parcel Number:	R418767
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR

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	DURANGO, CO 81301-8213
Historical Tax Assessor Record: 6.	
Tax Year:	2013
Calculated Land Value:	$72,900.00
Calculated Improvement Value:	$140,810.00
Calculated Total Value:	$213,710.00
Assessed Total Value:	$17,010.00
Assessor's Parcel Number:	R418767
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 7.	
Tax Year:	2012
Calculated Land Value:	$76,800.00
Calculated Improvement Value:	$148,690.00
Calculated Total Value:	$225,490.00
Assessed Total Value:	$17,950.00
Assessor's Parcel Number:	R418767
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

End of Document

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To Summary

Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	06/30/2020

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County Last Updated:	07/27/2020
Current Date:	08/12/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	ANDREATTA SHAWN T
	ANDREATTA CORINA J
Ownership Rights:	JOINT TENANCY
Absentee Owner:	OWNER OCCUPIED
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Phone:	970-385-7412

Property Information

County:	LA PLATA
Assessor's Parcel Number:	5671-322-02-004
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Lot Size:	59677
Lot Acreage:	1.3700
Subdivision:	ALPINE SHADOWS 02
Legal Description:	SUBDIVISION: ALPINE SHADOWS #2 BLOCK: 0 LOT: 58 ALPINE SHADOWS UNIT NO. 2 420 ALPINE DR DURANGO 81301
Lot Number:	58

Tax Assessment Information

Tax Year:	2011
Calculated Land Value:	$76,800.00
Calculated Improvement Value:	$148,690.00
Calculated Total Value:	$225,490.00
Assessed Land Value:	$6,110.00
Assessed Improvement Value:	$11,840.00
Assessed Total Value:	$17,950.00
Market Land Value:	$76,800.00
Market Improvement Value:	$148,690.00
Market Total Value:	$225,490.00

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Valuation Method:	MARKET
Tax Amount:	$565.00
Tax Code Area:	1007

Building/Improvement Characteristics

Number of Buildings:	1
Year Built:	20050000
Total Area:	59677
Living Square Feet:	1496
Style/Shape:	TRADITIONAL

Last Market Sale Information

Sale Date:	08/17/2004
Seller Name:	MEHLMAN BEVERLY J
Sale Price:	$68,000.00
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Mortgage Amount:	$51,000.00
Mortgage Loan Type:	CONVENTIONAL
Mortgage Deed Type:	DEED OF TRUST
Lender Name:	FIRST NAT'L BK/DURANGO
Number of Parcels:	2
Recording Date:	08/17/2004
Document Number:	891371
Title Company:	LAND TITLE GUARANTEE

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2010
Calculated Land Value:	$76,800.00
Calculated Improvement Value:	$148,690.00
Calculated Total Value:	$225,490.00
Assessed Total Value:	$17,950.00
Assessor's Parcel Number:	5671-322-02-004
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR

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	DURANGO, CO 81301-8213
Historical Tax Assessor Record: 2.	
Tax Year:	2010
Calculated Land Value:	$101,100.00
Calculated Improvement Value:	$141,860.00
Calculated Total Value:	$242,960.00
Assessed Total Value:	$19,340.00
Assessor's Parcel Number:	5671-322-02-004
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 3.	
Tax Year:	2009
Calculated Land Value:	$101,100.00
Calculated Improvement Value:	$141,860.00
Calculated Total Value:	$242,960.00
Assessed Total Value:	$19,340.00
Assessor's Parcel Number:	5671-322-02-004
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 4.	
Tax Year:	2008
Calculated Land Value:	$98,100.00
Calculated Improvement Value:	$134,930.00
Calculated Total Value:	$233,030.00
Assessed Total Value:	$18,550.00
Assessor's Parcel Number:	5671-322-02-004
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 5.	
Tax Year:	2007
Calculated Land Value:	$98,100.00
Calculated Improvement Value:	$134,930.00
Calculated Total Value:	$233,030.00
Assessed Total Value:	$18,550.00
Assessor's Parcel Number:	5671-32-2-02-004
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 6.	
Tax Year:	2006
Calculated Land Value:	$98,100.00
Calculated Total Value:	$98,100.00
Assessed Total Value:	$28,450.00
Assessor's Parcel Number:	5671-32-2-02-004
Absentee Owner:	OWNER OCCUPIED
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
Historical Tax Assessor Record: 7.	
Tax Year:	2003
Calculated Land Value:	$38,080.00
Calculated Total Value:	$38,080.00
Assessed Total Value:	$3,030.00
Assessor's Parcel Number:	5671-32-2-02-004
Absentee Owner:	ABSENTEE (MAIL AND SITUS NOT=)
Owner:	ANDREATTA SHAWN T, ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	10 SUNRIDGE CT

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-5868

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Real Property Transactions (7)

To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	CORINA J & SHAWN T ANDREATTA
Ownership Rights:	JOINT TENANTS
Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213

Transaction Information

Transaction Date:	06/30/2020
Deed Type:	TRUST DEED/ MORTGAGE
Document Type:	DEED OF TRUST
Type of Transaction:	REFINANCE
Mortgage Amount:	$175,500.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	30 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	06/30/2020
Mortgage Due Date:	07/01/2050
Lender Name:	UNITED WHOLESALE MTGUNITED WHOLESALE MTG
Address:	PONTIAC, MI 48341
Recording Date:	07/06/2020
Document Number:	1173515
Refinance Loan:	LOAN TO VALUE IS MORE THAN 50%

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R418767

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	2072

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

End of Document

To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	08/11/2004
Deed Type:	DEED OF TRUST
Type of Transaction:	REFINANCE
Mortgage Amount:	$32,000.00
Mortgage Type:	CONVENTIONAL
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	08/11/2004
Interest Rate:	ADJUSTABLE
Lender Name:	FIRST NAT'L BK/ DURANGO
Address:	DURANGO, CO 81302
Recording Date:	08/17/2004
Document Number:	891282
Equity Loan:	SECOND

Owner Information

Owner(s):	SHAWN T ANDREATTA
Additional Owner:	ANDREATTA SHAWN T & CORINA J
Property Address:	10 SUNRIDGE CT DURANGO, CO 81301-5868
Mailing Address:	10 SUNRIDGE CT DURANGO, CO 81301-5868

Property Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	LA PLATA
Assessor's Parcel Number:	R418104
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	SHAWN T ANDREATTA
Owner Relationship:	HUSBAND/WIFE
Ownership Rights:	JOINT TENANTS
Additional Owner:	ANDREATTA SHAWN T & CORINA J
Owner Relationship:	HUSBAND/WIFE
Ownership Rights:	JOINT TENANTS
Property Address:	10 SUNRIDGE CT DURANGO, CO 81301-5868
Mailing Address:	10 SUNRIDGE CT

Transaction Information

Transaction Date:	09/02/2003
Seller Name:	ANDREATTA SHAWN T
Deed Type:	QUIT CLAIM
Type of Transaction:	NOMINAL
Mortgage Amount:	$155,200.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	30 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	08/26/2003
Mortgage Due Date:	09/01/2033
Interest Rate:	FIXED
Lender Name:	HOMECOMINGS FIN'L NETWORK INC
Address:	DALLAS, TX 75254
Recording Date:	09/08/2003
Document Number:	867032
Title Company:	COLORADO LAND TITLE CO
Construction Type:	RESALE
InterFamily Transaction:	YES
Purchase Payment:	MORTGAGE

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-5868

2nd Mortgage Amount:	$15,800.00
2nd Mortgage Type:	CONVENTIONAL
2nd Mortgage Deed Type:	DEED OF TRUST

Property Information

County:	LA PLATA
Property Type:	RESIDENTIAL CONDOMINIUM

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	SHAWN T & CORINA J ANDREATTA
Additional Owner:	ANDREATTA SHAWN T
Additional Owner:	ANDREATTA CORINA J
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213

Transaction Information

Transaction Date:	11/09/2005
Deed Type:	DEED OF TRUST
Type of Transaction:	CONSTRUCTION LOAN
Mortgage Amount:	$260,000.00
Mortgage Deed Type:	CONSTRUCTION DEED OF TRUST
Mortgage Date:	11/09/2005
Interest Rate:	ADJUSTABLE
Lender Name:	FIRST NAT'L BK/ DURANGO
Address:	DURANGO, CO 81302
Recording Date:	11/15/2005
Document Number:	922483
Construction Loan:	YES
Refinance Loan:	LOAN TO VALUE IS MORE THAN 50%

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R418767
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary

Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Owner Information

Owner(s):	SHAWN T & CORINA J ANDREATTA
Owner Relationship:	HUSBAND AND WIFE
Absentee Owner:	SITUS FROM SALE (OCCUPIED)
Additional Owner #1:	ANDREATTA SHAWN T
Owner Relationship:	HUSBAND/WIFE
Additional Owner #2:	ANDREATTA CORINA J
Property Address:	420 ALPINE DR

Transaction Information

Transaction Date:	02/11/2009
Deed Type:	TRUST DEED/ MORTGAGE
Document Type:	DEED OF TRUST
Type of Transaction:	REFINANCE
Mortgage Amount:	$250,000.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	30 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	02/11/2009
Mortgage Due Date:	03/01/2039
Lender Name:	WELLS FARGO BK NA
Address:	NEWARK, NJ 07101-4701
Recording Date:	02/17/2009
Document Number:	990801
	LAND TITLE GUARANTEE

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-8213	**Refinance Loan:**	LOAN TO VALUE IS MORE THAN 50%
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213		

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R418767
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary
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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	09/14/2006
Deed Type:	DEED OF TRUST
Type of Transaction:	REFINANCE
Mortgage Amount:	$253,000.00
Mortgage Type:	CONVENTIONAL
Mortgage Term:	30 YEARS
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	09/14/2006
Mortgage Due Date:	10/01/2036
Lender Name:	HOMECOMINGS FIN'L NETWORK INC
Address:	DALLAS, TX 75254

Owner Information

Owner(s):	SHAWN T & CORINA J ANDREATTA
Owner Relationship:	HUSBAND/WIFE

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Additional Owner:	ANDREATTA SHAWN T	**Recording Date:**	09/19/2006
Owner Relationship:	HUSBAND/WIFE	**Document Number:**	942346
Additional Owner:	ANDREATTA CORINA J	**Title Company:**	LAND TITLE GUARANTEE
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213	**Refinance Loan:**	LOAN TO VALUE IS MORE THAN 50%
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213		

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R418767
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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To Summary
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Real Property Transaction Record

Source Information

Filings Current Through:	07/17/2020
County Last Updated:	08/06/2020
Frequency of Update:	WEEKLY
Current Date:	08/12/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	08/17/2004
Seller Name:	MEHLMAN BEVERLY J
Sale Price:	$68,000.00
Deed Type:	GRANT DEED
Type of Transaction:	RESALE
Mortgage Amount:	$51,000.00
Mortgage Type:	CONVENTIONAL
Mortgage Deed Type:	DEED OF TRUST
Mortgage Date:	08/17/2004

Owner Information

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Owner(s):	SHAWN T ANDREATTA	**Interest Rate:**	FIXED
Ownership Rights:	JOINT TENANTS	**Lender Name:**	FIRST NAT'L BK/ DURANGO
Additional Owner:	ANDREATTA SHAWN T & CORINA J	**Address:**	DURANGO, CO 81302
Ownership Rights:	JOINT TENANTS	**Recording Date:**	08/17/2004
Property Address:	420 ALPINE DR DURANGO, CO 81301-8213	**Document Number:**	891371
		Title Company:	LAND TITLE GUARANTEE
Mailing Address:	10 SUNRIDGE CT DURANGO, CO 81301-5868	**Construction Type:**	RESALE
		Purchase Payment:	MORTGAGE

Property Information

County:	LA PLATA
Assessor's Parcel Number:	R418767
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	RESIDENTIAL (NEC)

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.
TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Vehicle Registrations (4)

To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Vehicle Information

VIN:	1N6AD07W29C409273
Vehicle Type:	PASSENGER CAR
Model Year:	2009
Make:	NISSAN
Body Style:	CREW CAB LWB SW
Model/Series:	FRONTIER LE PRO 4X SE

Registration Information

License Plate Number:	QUN120
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	QUN120
Previous Plate State:	CO
Registration Renewal Date:	03/25/2020
Expiration Date:	03/31/2021
Registrant(s) Since:	04/27/2017
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Registration Renewal Date:	03/25/2020
Expiration Date:	03/31/2021
Registrant(s) Since:	04/27/2017
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 1

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Registration Renewal Date:	02/21/2018
Expiration Date:	03/31/2019
License Plate Number:	QUN120
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	QUN120
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	10 SUNRIDGE CT DURANGO, CO 81301-5868
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Registration Renewal Date:	02/21/2018
Expiration Date:	03/31/2019
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 2

Registration Renewal Date:	04/27/2017
Expiration Date:	03/31/2018
License Plate Number:	QUN120
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	BPJ3300
Previous Plate State:	AZ
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Registration Renewal Date:	04/27/2017
Expiration Date:	03/31/2018
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 3

Title Transfer Date:	04/07/2016
Name:	SHAWN T. ANDREATTA
Interest:	OWNER
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Title Transfer Date:	04/07/2016
Name:	CORINA J. ANDREATTA
Interest:	OWNER
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Title Transfer Date:	03/29/2016
Name:	SHAWN T. ANDREATTA CORINA
Interest:	OWNER
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 4

Registration Renewal Date:	01/06/2014
Expiration Date:	12/31/2014
License Plate Number:	934BWJ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	934BWJ
Previous Plate State:	CO
Name:	MARK ALAN CADE
Interest:	REGISTRANT
Mailing Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD
Physical Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD
Registration Renewal Date:	01/06/2014
Expiration Date:	12/31/2014
Name:	LARA MARIE CADE
Interest:	REGISTRANT
Mailing Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD
Physical Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD

Historical DMV Record 5

Registration Renewal Date:	01/28/2013
Expiration Date:	12/31/2013
License Plate Number:	934BWJ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	934BWJ
Previous Plate State:	CO

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Name:	MARK A. CADE
Interest:	REGISTRANT
Mailing Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD
Physical Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD
Registration Renewal Date:	01/28/2013
Expiration Date:	12/31/2013
Name:	LARA M. CADE
Interest:	REGISTRANT
Mailing Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD
Physical Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD

Historical DMV Record 6

Registration Renewal Date:	01/19/2012
Expiration Date:	12/31/2012
License Plate Number:	934BWJ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	934BWJ
Previous Plate State:	CO
Name:	LARA M. CADE
Interest:	REGISTRANT
Mailing Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD
Physical Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD
Registration Renewal Date:	01/19/2012
Expiration Date:	12/31/2012
Name:	MARK A. CADE
Interest:	REGISTRANT

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Mailing Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD
Physical Address:	4411 TANAGER TRL BROOMFIELD, CO 80023-8809
County:	BROOMFIELD

Historical DMV Record 7

Title Transfer Date:	04/13/2010
Name:	BELLCO CREDIT UNION
Interest:	LIEN HOLDER
Mailing Address:	PO BOX 6611 6611 GREENWOOD VLG, CO 80155-6611
County:	ARAPAHOE
Title Transfer Date:	04/13/2010
Name:	MARK A. CADE
Interest:	OWNER
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Physical Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Title Transfer Date:	04/13/2010
Name:	LARA M. CADE
Interest:	OWNER
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Physical Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Title Transfer Date:	04/13/2010
Name:	MARK ALAN CADE
Interest:	OWNER
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Physical Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Title Transfer Date:	04/13/2010
Name:	LARA MARIE CADE
Interest:	OWNER
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Physical Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD

Historical DMV Record 8

Registration Renewal Date:	10/12/2009
Expiration Date:	10/31/2010
License Plate Number:	934BWJ
Issuing State:	CO
Plate Type:	PRIVATE
Name:	MARK ALAN CADE
Interest:	REGISTRANT
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Physical Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Registration Renewal Date:	10/12/2009
Expiration Date:	10/31/2010
Name:	LARA MARIE CADE
Interest:	REGISTRANT
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Physical Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Registration Renewal Date:	10/12/2009
Expiration Date:	10/31/2010

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Name:	MARK A. CADE
Interest:	REGISTRANT
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Physical Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Registration Renewal Date:	10/12/2009
Expiration Date:	10/31/2010
Name:	LARA M. CADE
Interest:	REGISTRANT
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Physical Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Title Transfer Date:	08/20/2009
Name:	PREMIERE MEMBERS C U
Interest:	LIEN HOLDER
Mailing Address:	5495 ARAPAHOE AVE BOULDER, CO 80303-1261
County:	BOULDER
Title Transfer Date:	08/20/2009
Name:	MARK A. CADE
Interest:	OWNER
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Physical Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD
Title Transfer Date:	08/20/2009
Name:	LARA M. CADE
Interest:	OWNER
Mailing Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	BROOMFIELD
Physical Address:	5583 STONEYBROOK DR BROOMFIELD, CO 80020-6170
County:	BROOMFIELD

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	1NXBR32E86Z720622
Vehicle Type:	PASSENGER CAR
Model Year:	2006
Make:	TOYOTA
Body Style:	SEDAN 4D 5P
Model/Series:	COROLLA CE LE S

Registration Information

License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Registration Renewal Date:	09/06/2019
Expiration Date:	09/30/2020
Registrant(s) Since:	09/18/2008
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	09/06/2019
Expiration Date:	09/30/2020
Registrant(s) Since:	09/18/2008
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Title Information:

Original Title Date:	09/18/2008
Title Number:	55E015110
Name:	CORINA J. ANDREATTA
Interest:	OWNER
Title Transaction Date:	09/18/2008
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 1

Registration Renewal Date:	10/19/2018
Expiration Date:	09/30/2019
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	10/19/2018
Expiration Date:	09/30/2019
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 2

Registration Renewal Date:	09/08/2017
Expiration Date:	09/30/2018
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	09/08/2017
Expiration Date:	09/30/2018
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 3

Registration Renewal Date:	10/06/2016
Expiration Date:	09/30/2017
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	10/06/2016
Expiration Date:	09/30/2017
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 4

Registration Renewal Date:	08/28/2015
Expiration Date:	09/30/2016
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 5

Registration Renewal Date:	10/15/2014
Expiration Date:	09/30/2015
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	10/15/2014
Expiration Date:	09/30/2015
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 6

Registration Renewal Date:	10/07/2013
Expiration Date:	09/30/2014

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	10/07/2013
Expiration Date:	09/30/2014
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 7

Registration Renewal Date:	10/01/2012
Expiration Date:	09/30/2013
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	SAN JUAN
Registration Renewal Date:	10/01/2012
Expiration Date:	09/30/2013
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 8

Registration Renewal Date:	09/16/2011
Expiration Date:	09/30/2012
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	09/16/2011
Expiration Date:	09/30/2012
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	09/16/2011

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Expiration Date:	09/30/2012
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 9

Registration Renewal Date:	09/08/2010
Expiration Date:	09/30/2011
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	09/08/2010
Expiration Date:	09/30/2011
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	09/08/2010
Expiration Date:	09/30/2011
Name:	CORINA J. ANDREATTA

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 10

Registration Renewal Date:	09/29/2009
Expiration Date:	09/30/2010
License Plate Number:	956SCA
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	956SCA
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	09/29/2009
Expiration Date:	09/30/2010
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 11

Registration Renewal Date:	09/18/2008
Expiration Date:	09/30/2009
License Plate Number:	956SCA

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Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	014YKJ
Previous Plate State:	AZ
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	09/18/2008
Expiration Date:	09/30/2009
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	09/18/2008
Expiration Date:	09/30/2009
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Title Transfer Date:	09/18/2008
Name:	SHAWN ANDREATTA
Interest:	OWNER
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

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Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Title Transfer Date:	09/18/2008
Name:	SHAWN T. ANDREATTA
Interest:	OWNER
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

End of Document

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To Summary

Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY
Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	5TEWN72N04Z442280
Vehicle Type:	PASSENGER CAR
Model Year:	2004
Make:	TOYOTA
Body Style:	XTRA CAB 2D
Model/Series:	TACOMA LIMITED SR5

Registration Information

License Plate Number:	SPO784
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	SPO784
Previous Plate State:	CO

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Registration Renewal Date:	10/23/2019
Expiration Date:	11/30/2020
Registrant(s) Since:	11/06/2017
Name:	JUSTIN POWELL
Interest:	REGISTRANT
Mailing Address:	3305 E 5TH AVE DURANGO, CO 81301-6007
County:	LA PLATA
Physical Address:	3305 E 5TH AVE DURANGO, CO 81301-6007
County:	LA PLATA

Title Information:

Original Title Date:	11/06/2017
Title Number:	20E644933
Name:	JUSTIN POWELL
Interest:	OWNER
Title Transaction Date:	11/06/2017
Mailing Address:	3305 E 5TH AVE DURANGO, CO 81301-6007
County:	LA PLATA
Physical Address:	3305 E 5TH AVE DURANGO, CO 81301-6007
County:	LA PLATA

Historical DMV Record 1

Registration Renewal Date:	11/06/2017
Expiration Date:	11/30/2018
License Plate Number:	SPO784
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	706XZH
Previous Plate State:	CO
Name:	JUSTIN POWELL
Interest:	REGISTRANT
Mailing Address:	3305 E 5TH AVE DURANGO, CO 81301-6007
County:	LA PLATA
Physical Address:	3305 E 5TH AVE

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-6007
County:	LA PLATA
Registration Renewal Date:	05/01/2017
Expiration Date:	05/31/2018
License Plate Number:	706XZH
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	706XZH
Previous Plate State:	CO
Name:	SHAWN ANDREATTA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Registration Renewal Date:	05/01/2017
Expiration Date:	05/31/2018
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 2

Registration Renewal Date:	05/02/2016
Expiration Date:	05/31/2017
License Plate Number:	706XZH
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	706XZH
Previous Plate State:	CO
Name:	SHAWN ANDREATTA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

	DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 3

Registration Renewal Date:	05/20/2015
Expiration Date:	05/31/2016
License Plate Number:	706XZH
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	706XZH
Previous Plate State:	CO
Name:	SHAWN ANDREATTA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 4

Registration Renewal Date:	05/05/2014
Expiration Date:	05/31/2015
License Plate Number:	706XZH
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	706XZH
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Registration Renewal Date:	05/05/2014
Expiration Date:	05/31/2015
Name:	CORINA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 5

Registration Renewal Date:	05/08/2013
Expiration Date:	05/31/2014
License Plate Number:	706XZH
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	457PCE
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Registration Renewal Date:	05/08/2013
Expiration Date:	05/31/2014
Name:	CORINA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA

Historical DMV Record 6

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Title Transfer Date:	05/14/2012
Name:	SHAWN T. ANDREATTA
Interest:	OWNER
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Title Transfer Date:	05/14/2012
Name:	CORINA ANDREATTA
Interest:	OWNER
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Title Transfer Date:	05/14/2012
Name:	SHAWN ANDREATTA
Interest:	OWNER
Mailing Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Physical Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Registration Renewal Date:	02/24/2012
Expiration Date:	02/28/2013
License Plate Number:	457PCE
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	457PCE
Previous Plate State:	CO
Name:	PATRICK J. DEHERRERA
Interest:	REGISTRANT
Mailing Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	MESA
Physical Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023
County:	MESA

Historical DMV Record 7

Registration Renewal Date:	06/15/2010
Expiration Date:	07/31/2011
License Plate Number:	457PCE
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	457PCE
Previous Plate State:	CO
Name:	PATRICK J. DEHERRERA
Interest:	REGISTRANT
Mailing Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023
County:	MESA
Physical Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023
County:	MESA

Historical DMV Record 8

Registration Renewal Date:	07/29/2009
Expiration Date:	07/31/2010
License Plate Number:	457PCE
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	457PCE
Previous Plate State:	CO
Name:	PATRICK J. DEHERRERA
Interest:	REGISTRANT
Mailing Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023
County:	MESA
Physical Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023
County:	MESA

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Historical DMV Record 9

Registration Renewal Date:	07/03/2008
Expiration Date:	07/31/2009
License Plate Number:	457PCE
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	457PCE
Previous Plate State:	CO
Name:	PATRICK J. DEHERRERA
Interest:	REGISTRANT
Mailing Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023
County:	MESA
Physical Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023
County:	MESA
Title Transfer Date:	02/29/2008
Name:	COLORAMO FEDERAL CR. UN
Interest:	LIEN HOLDER
Mailing Address:	516 28 RD GRAND JCT, CO 81501-6555
County:	MESA
Title Transfer Date:	02/29/2008
Name:	PATRICK J. DEHERRERA
Interest:	OWNER
Mailing Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023
County:	MESA
Physical Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81507-1023
County:	MESA

Historical DMV Record 10

Registration Renewal Date:	04/12/2007
Expiration Date:	04/30/2008
License Plate Number:	457PCE
Issuing State:	CO
Plate Type:	PRIVATE

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The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Previous Plate Number:	767XMN
Previous Plate State:	OK
Name:	PATRICK J. DEHERRERA
Interest:	REGISTRANT
Mailing Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81503-1023
County:	MESA
Physical Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81503-1023
County:	MESA
Title Transfer Date:	02/28/2007
Name:	PATRICK J. DEHERRERA
Interest:	OWNER
Mailing Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81503-1023
County:	MESA
Physical Address:	2105 YOSEMITE RD GRAND JUNCTION, CO 81503-1023
County:	MESA
Title Transfer Date:	02/28/2007
Name:	WELLS FARGO AUTO FINANCE INC.
Interest:	LIEN HOLDER
Mailing Address:	PO BOX 924827 924827 HOUSTON, TX 77292-4827
County:	HARRIS
Physical Address:	1061 GRAND NATIONAL BLVD FORT WORTH, TX 76179-7372
County:	TARRANT

End of Document

To Summary

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Motor Vehicle Record

Source Information

Coverage Begin Date:	01/01/2000
Information Current Through:	07/23/2020
Database Last Updated:	07/29/2020
Update Frequency:	2X MONTHLY

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Current Date:	08/12/2020
Source:	DEPT. OF REVENUE, MOTOR VEHICLE DIVISION

Vehicle Information

VIN:	JT2SK12E5S0337325
Vehicle Type:	PASSENGER CAR
Model Year:	1995
Make:	TOYOTA
Body Style:	SEDAN 4D 5P
Model/Series:	CAMRY LE

Title Information:

Original Title Date:	04/16/2015
Title Number:	32E422626
Name:	MARION CHRIS
Interest:	OWNER
Title Transaction Date:	04/16/2015
Mailing Address:	24639 ROAD F CORTEZ, CO 81321-9107
County:	MONTEZUMA
Physical Address:	24639 ROAD F CORTEZ, CO 81321-9107
County:	MONTEZUMA

Historical DMV Record 1

Registration Renewal Date:	10/26/2009
Expiration Date:	10/31/2010
License Plate Number:	261UZH
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	207HJJ
Previous Plate State:	CO
Name:	MARION CHRIS OLEN
Interest:	REGISTRANT
Mailing Address:	24639 ROAD F CORTEZ, CO 81321-9107
County:	MONTEZUMA
Physical Address:	24639 ROAD F CORTEZ, CO 81321-9107

Thomson Reuters. No claim to original U.S. Government Works.

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

County:	MONTEZUMA
Title Transfer Date:	10/26/2009
Name:	MARION CHRIS OLEN
Interest:	OWNER
Mailing Address:	24639 ROAD F CORTEZ, CO 81321-9107
County:	MONTEZUMA
Physical Address:	24639 ROAD F CORTEZ, CO 81321-9107
County:	MONTEZUMA

Historical DMV Record 2

Registration Renewal Date:	02/22/2008
Expiration Date:	02/28/2009
License Plate Number:	207HJJ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	207HJJ
Previous Plate State:	CO
Name:	SHAWN T. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	02/22/2008
Expiration Date:	02/28/2009
Name:	CORINA J. ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

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Registration Renewal Date:	02/22/2008
Expiration Date:	02/28/2009
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 3

Registration Renewal Date:	03/13/2007
Expiration Date:	02/28/2008
License Plate Number:	207HJJ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	207HJJ
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	03/13/2007
Expiration Date:	02/28/2008
Name:	CORINA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433

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County:	SAN JUAN

Historical DMV Record 4

Registration Renewal Date:	03/03/2006
Expiration Date:	02/28/2007
License Plate Number:	207HJJ
Issuing State:	CO
Plate Type:	PRIVATE
Previous Plate Number:	207HJJ
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	03/03/2006
Expiration Date:	02/28/2007
License Plate Number:	207HJJ
Issuing State:	CO
Name:	CORINA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	1424 MINERAL ST PO BOX 682 682 SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 5

Registration Renewal Date:	03/10/2005
Expiration Date:	02/28/2006
License Plate Number:	207HJJ
Issuing State:	CO

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Plate Type:	PRIVATE
Previous Plate Number:	207HJJ
Previous Plate State:	CO
Name:	SHAWN ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	342 E 14TH ST SILVERTON, CO 81433
County:	SAN JUAN
Registration Renewal Date:	03/10/2005
Expiration Date:	02/28/2006
Name:	CORINA ANDREATTA
Interest:	REGISTRANT
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

Historical DMV Record 6

Title Transfer Date:	02/18/2004
Name:	SHAWN ANDREATTA
Interest:	OWNER
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Title Transfer Date:	02/18/2004
Name:	SHAWN T. ANDREATTA
Interest:	OWNER
Mailing Address:	PO BOX 682

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	682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN
Title Transfer Date:	02/18/2004
Name:	CORINA ANDREATTA
Interest:	OWNER
Mailing Address:	PO BOX 682 682 SILVERTON, CO 81433-0682
County:	SAN JUAN
Physical Address:	1424 MINERAL ST SILVERTON, CO 81433
County:	SAN JUAN

End of Document

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UCC Records (2)

To Summary

Uniform Commercial Code Report

Source Information

Information Current Through:	07/04/2020
Database Last Updated:	08/12/2020
Update Frequency:	WEEKLY
Current Date:	08/12/2020
Source:	CO SECRETARY OF STATE

Filing Information

Filing Number:	2006F102555
Filing Date:	10/20/2006
Filing Time:	10:33PM
Related Filing Number:	2005F114808

Debtor Information

Debtor(s):	ANDREATTA, CORINA J 420 ALPINE DRIVE DURANGO, CO 81301
D&B DUNS:	61-736-9561

Secured Party or Creditor Information

Secured Party(s):	THE FIRST NATIONAL BANK OF DURANGO PO BOX 2910 DURANGO, CO 81302
D&B DUNS:	00-742-7537

The data provided to you by WESTLAW may not be used as a factor in establishing a consumer's eligibility for credit, insurance, employment, or for any other purpose authorized under the FCRA.

Filing Type:	TERMINATION	The preceding public record data is for information purposes only and is not the official record. Certified copies can only be obtained from the official source.
Filing Office:	SECRETARY OF STATE/ UCC DIVISION 1560 BROADWAY DENVER, CO 80202	The public record items reported above may have been paid, terminated, vacated or released prior to today's date.

Order Documents

Call Westlaw CourtExpress at 1-877-DOC-RETR (1-877-362-7387) for on-site manual retrieval of documents related to this or other matters. Additional charges apply.

End of Document

To Summary

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Uniform Commercial Code Report

Source Information

Information Current Through:	07/04/2020
Database Last Updated:	08/12/2020
Update Frequency:	WEEKLY
Current Date:	08/12/2020
Source:	CO SECRETARY OF STATE

Debtor Information

Debtor(s):	ANDREATTA, CORINA J 420 ALPINE DRIVE DURANGO, CO 81301
D&B DUNS:	61-736-9561
Debtor(s):	ANDREATTA, SHAWN T 420 ALPINE DR DURANGO, CO 81301

Filing Information

Filing Number:	2005F114808
Filing Date:	11/10/2005
Filing Time:	12:08PM
Filing Type:	ORIGINAL
Filing Office:	SECRETARY OF STATE/ UCC DIVISION 1560 BROADWAY DENVER, CO 80202

Secured Party or Creditor Information

Secured Party(s):	THE FIRST NATIONAL BANK OF DURANGO PO BOX 2910 DURANGO, CO 81302

Collateral Information

Collateral Type:	BUILDING MATERIALS AND PROCEEDS
Collateral Type:	FIXTURES AND PROCEEDS

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Collateral Type:	GENERAL INTANGIBLE(S) AND PROCEEDS
Collateral Type:	ACCOUNT(S) AND PROCEEDS
The preceding public record data is for information purposes only and is not the official record. Certified copies can only be obtained from the official source.	
The public record items reported above may have been paid, terminated, vacated or released prior to today's date.	

Order Documents

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Corporate Records & Business Registrations (1)

To Summary

Corporate Records & Business Registrations

Source Information

Information Current Through:	08/04/2020
Database Last Updated:	08/12/2020
Update Frequency:	WEEKLY
Current Date:	08/12/2020
Source:	AS REPORTED BY THE SECRETARY OF STATE OR OTHER OFFICIAL SOURCE

Company Information

Name:	COMMUNITY REBUILDS SOUTHWEST COLORADO

Registered Agent Information

Name:	CORINA ANDRETTA
Address:	420 ALPINE DR DURANGO, CO 81301

Amendment Information

Amendments:	12/31/2012 MISCELLANEOUS DISSOLVE A NONPROFIT CORPORATION
	07/23/2012 MISCELLANEOUS FORM A NONPROFIT CORPORATION

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	CHAPTER, DISSOLVED DECEMBER 31, 2012
Address:	420 ALPINE DR DURANGO, CO 81301

The preceding public record data is for information purposes only and is not the official record. Certified copies can only be obtained from the official source.

The public record items reported above may have been paid, terminated, vacated or released prior to today's date.

Filing Information

Identification Number:	20121393654
Filing Date:	07/23/2012
State of Incorporation:	COLORADO
Date Incorporated:	07/23/2012
Status:	VOLUNTARILY DISSOLVED
Corporation Type:	NON-PROFIT
Business Type:	CORPORATION
Address Type:	BUSINESS
Where Filed:	DEPT OF STATE/ DIVISION OF COMMERCIAL RECORDINGS
	1560 BROADWAY DENVER, CO 80202

Order Documents

Call Westlaw CourtExpress at 1-877-DOC-RETR (1-877-362-7387) for on-site manual retrieval of documents related to this or other matters. Additional charges apply.

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Household Records (1)

To Summary

People Finder Household-Centric Record

Source Information

Information Current Through:	05/26/2020
Database Last Updated:	07/20/2020
Update Frequency:	MONTHLY
Current Date:	08/12/2020
Source:	Data by Infogroup, Copyright © 2020, All Rights Reserved.

Household Information:

Address:	420 ALPINE DR DURANGO, CO 81301-8213
County:	LA PLATA
Latitude/Longitude:	-107.772487/37.263656
Residence Type:	SINGLE FAMILY DWELLING
Address First Reported:	1997

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Reported Occupation:	STUDENT

Head of Household Information

Head of Household:	MR SHAWN T ANDREATTA
Gender:	MALE
Date of Birth:	03/XX/1972
Name/Address Confirmed:	05/2017
Marital Status:	MARRIED

Additional Individuals In This Household

Name:	MS CORINA J ANDREATTA
Gender:	FEMALE
Date of Birth:	11/XX/1972
Name/Address Confirmed:	05/2017

End of Document

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Possible Relatives & Household Members

Household Records

420 ALPINE DR DURANGO, CO 81301-8213 | Full-Text

Address First Reported:	1997	**Confidence Score:**	99
Name	**Role**	**Date of Birth**	**Name/Address Confirmed:**
MR SHAWN T ANDREATTA	Head of Household	03/XX/1972	05/2017
MS CORINA J ANDREATTA	Other	11/XX/1972	05/2017

Possible Named Parties

People Associations

ELLEN M HUME	ROBERT C ECKER JR
JUSTIN POWELL	BRUCE PALMER
PATRICK J DEHERRERA	BRENDA L BEANE
GAIL E LYNCH	VINCENT J TALLO
LARA M CADE	JOHN LIPARI
ROBERT E BARNES	GILBERT PITTS
ROBERT J NAHOUM	JOHN C DARBY
MARILYN MARESTAING	AMBER BUSCH
MICHELE ROGERS	KATE W FLEWELLING
BEVERLY J MEHLMAN	LORI S SAAD
BETH R GUNN	ALFREDO SILLAS

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CYNTHIA J DIBATTISTA	JANIS POOL
KURT L MARSTELLER	CHARLES S WAY JR
GARY A BUCHHOLZ	CHRIS O MARION
ORRIN D GULLEY	JULIE L SHOTTS
MICHELE ROGERS	AIDA MAHINIC
KIMBERLY FOSTER	GAYLE L SAWYER
JONATHAN TALLEY	AMBER ELAINE JONES
JANIS O POOL	WENDY DINETZ
DAVID H FUNK	LAURA J HELM
CHRISTOPHER J SANOSI	SHAWN T ANDREATTA
THEODORE BUDZICHOWSKI	GRETA GALE
FREDERICK MACEACHERN	KURT L MARSTELLER
CAROL MUELLER	FARIA HUQ
ALVIN F BECKER	KEVIN HARRIS
JOHN R GUZ	MARY L WAY
LORI S SAAD	ROBERT L BASS
DAKOTAH ANDREATTA	ALEXANDER FRIAS
HEATHER S HAWKINS	JOELLE GARDY
MARK A CADE	ALFREDO SILLAS
CHERYL A STUTZMAN	KENDREA K SHINGLETON
THEODORE BUDZICHOWSKI	DIANNE HILL
MIKE E PINA	JUDY BOWMAN
ANDREW J BAKER	ROBERT ECKER
WENDY DINETZ	MICHELE L CLAYPOOL
RUBEN A ESCALANTE	MARTA KRESS
MUNTHER M KUBBA	JASMINE GITTENS
JOSEPH L TUCCI	LAURIE D KING
RUBEN ESCALANTE	KRISTINA A HASSELS
BRENDA L BEANE	DADKOTAH ANDREATTA
CLIFFORD E WILHELM	MICHAEL E PINA
CYNTHIA J SNIDER	GURBINDER DHALIWAL
SUSAN L COSTER	DIANNE L SENKO
MAUREEN VALOIS	HOPE L DIERCKS

Business Associations

INVESTMENT PORTFOLIO ANALYSIS

No Documents Found

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No Documents Were Found In These Sources

Aircraft Records	Bankruptcy Records
BusFindUS	Conceal & Carry Weapons Permits
Death Records	DMI
Email Address Records	Executive Bios
FBN/DBA	FEIN
Healthcare Licenses	Hunting & Fishing Licenses
Lawsuit Records	Liens & Judgments
Marriage Records	New Movers Records
Professional Licenses	Real Property Pre-Foreclosure Records
Stock	Unclaimed Assets
Watercraft Records	

Permissible Uses and FCRA Disclaimer

Permissible Uses

DPPA - For use in connection with a civil, criminal, or arbitral legal proceeding or legal research.
GLB - For use in complying with a properly authorized civil, criminal, or regulatory investigation, subpoena, or summons by federal, state, or local authorities.
VOTERS - Use in connection with a non-commercial purpose.
Skip Tracing for Consumer Collections Declaration - Are you using this product for skip tracing related to consumer debt collection? - No

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Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	12/06/2019
Owner Information Current Through:	07/07/2020
County Last Updated:	09/02/2020
Current Date:	09/22/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	DUGI DAN DEFINED BENEFIT TRUST
Corporate Owner:	CORPORATE OWNER
Ownership Rights:	PERSONAL TRUST
Mailing Address:	146 POST OAK WAY CUERO, TX 77954-2228

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290090010035
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY
Lot Size:	689119
Lot Acreage:	15.8200
Legal Description:	PIEDMONT 15112 RIVER 15112

Tax Assessment Information

Tax Year:	2008
Calculated Land Value:	$94,920.00
Calculated Total Value:	$94,920.00
Market Land Value:	$94,920.00
Market Total Value:	$94,920.00
Valuation Method:	MARKET
Tax Amount:	$858.52
Tax Code Area:	101

Building/Improvement Characteristics

Total Area:	689119

Last Market Sale Information

Sale Date:	01/30/2004
Seller Name:	OWNER RECORD
Deed Type:	GRANT DEED
Type of Sale:	RESALE
Recording Date:	2004
Document Number:	143246

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Real Property Transaction Record

Source Information

Filings Current Through:	07/31/2020
County Last Updated:	09/17/2020
Frequency of Update:	WEEKLY
Current Date:	09/22/2020
Source:	COUNTY CLERK AND RECORDER

Transaction Information

Transaction Date:	01/30/2004
Seller Name:	OWNER RECORD
Deed Type:	GRANT DEED
Document Type:	DEED
Type of Transaction:	RESALE
Recording Date:	2004
Document Number:	143246
Construction Type:	SALE IS A RE-SALE

Owner Information

Owner(s):	DUGI DAN TRUST
Ownership Rights:	PERSONAL TRUST
Property Address:	CO

Property Information

County:	SAN JUAN
Assessor's Parcel Number:	48290090010035
Property Type:	INDUSTRIAL
Land Use:	MINE/QUARRY

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Real Property Tax Assessor Record

Source Information

Tax Roll Certification Date:	07/25/2020
Owner Information Current Through:	06/30/2020
County Last Updated:	09/21/2020
Current Date:	09/22/2020
Source:	TAX ASSESSOR

Owner Information

Owner(s):	DUGI DANIEL D
Absentee Owner:	OWNER OCCUPIED
Property Address:	146 POST OAK WAY CUERO, TX 77954-2228
Mailing Address:	146 POST OAK WAY CUERO, TX 77954-2228

Property Information

County:	DEWITT
Assessor's Parcel Number:	7159
Property Type:	AGRICULTURAL
Land Use:	FARMS
Homestead Exempt:	HOMEOWNER EXEMPTION
Lot Size:	106112
Lot Acreage:	2.4360
Municipality:	DEWITT CO PRECINCT #4
Legal Description:	4 C GLEN OAKS CUERO

Tax Assessment Information

Tax Year:	2020
Calculated Total Value:	$392,450.00
Assessed Total Value:	$392,450.00
Market Land Value:	$36,540.00
Market Improvement Value:	$417,400.00
Market Total Value:	$453,940.00
Valuation Method:	ASSESSED
Tax Amount:	$8,044.48
Tax Code Area:	01

Building/Improvement Characteristics

Building Type:	RESIDENTIAL
Number of Buildings:	2
Total Area:	106112
Living Square Feet:	2840
Garage Type:	CARPORT

Previous Transaction Information

Number of Parcels:	Y Y

Historical Tax Assessor Information

Historical Tax Assessor Record: 1.	
Tax Year:	2019

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Calculated Total Value:	$356,770.00
Assessed Total Value:	$356,770.00
Assessor's Parcel Number:	7159
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	DUGI DANIEL D
Property Address:	146 POST OAK WAY CUERO, TX 77954-2228
Mailing Address:	146 POST OAK WAY CUERO, TX 77954-2228

Historical Tax Assessor Record: 2.

Tax Year:	2018
Calculated Total Value:	$294,850.00
Assessed Total Value:	$294,850.00
Assessor's Parcel Number:	7159
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	DUGI DANIEL D
Property Address:	146 POST OAK WAY CUERO, TX 77954-2228
Mailing Address:	146 POST OAK WAY CUERO, TX 77954-2228

Historical Tax Assessor Record: 3.

Tax Year:	2017
Calculated Total Value:	$263,380.00
Assessed Total Value:	$263,380.00
Assessor's Parcel Number:	7159
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	DUGI DANIEL D
Property Address:	146 POST OAK WAY CUERO, TX 77954-2228
Mailing Address:	146 POST OAK WAY CUERO, TX 77954-2228

Historical Tax Assessor Record: 4.

Tax Year:	2016
Calculated Total Value:	$263,380.00
Assessed Total Value:	$263,380.00
Assessor's Parcel Number:	7159
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	DUGI DANIEL D
Property Address:	146 POST OAK WAY CUERO, TX 77954-2228
Mailing Address:	146 POST OAK WAY CUERO, TX 77954-2228

Historical Tax Assessor Record: 5.

Tax Year:	2015
Calculated Land Value:	$12,180.00
Calculated Improvement Value:	$250,000.00
Calculated Total Value:	$262,180.00
Assessed Total Value:	$262,180.00
Assessor's Parcel Number:	7159
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	DUGI DANIEL D
Property Address:	146 POST OAK WAY CUERO, TX 77954-2228

Mailing Address:	146 POST OAK WAY CUERO, TX 77954-2228
Historical Tax Assessor Record: 6.	
Tax Year:	2014
Calculated Land Value:	$12,180.00
Calculated Improvement Value:	$205,490.00
Calculated Total Value:	$217,670.00
Assessed Total Value:	$217,670.00
Assessor's Parcel Number:	7159
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	DUGI DANIEL D
Property Address:	146 POST OAK WAY CUERO, TX 77954-2228
Mailing Address:	146 POST OAK WAY CUERO, TX 77954-2228
Historical Tax Assessor Record: 7.	
Tax Year:	2013
Calculated Land Value:	$12,180.00
Calculated Improvement Value:	$205,490.00
Calculated Total Value:	$217,670.00
Assessed Total Value:	$217,670.00
Assessor's Parcel Number:	7159
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	DUGI DANIEL D
Property Address:	146 POST OAK WAY CUERO, TX 77954-2228
Mailing Address:	146 POST OAK WAY CUERO, TX 77954-2228
Historical Tax Assessor Record: 8.	
Tax Year:	2011
Calculated Land Value:	$9,740.00
Calculated Improvement Value:	$205,490.00
Calculated Total Value:	$215,230.00
Assessed Total Value:	$215,230.00
Assessor's Parcel Number:	7159
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	DUGI DANIEL D
Property Address:	146 POST OAK WAY CUERO, TX 77954-2228
Mailing Address:	146 POST OAK WAY CUERO, TX 77954-2228
Historical Tax Assessor Record: 9.	
Estimated Tax Year:	2010
Calculated Land Value:	$9,740.00
Calculated Improvement Value:	$205,490.00
Calculated Total Value:	$215,230.00
Assessed Total Value:	$215,230.00
Assessor's Parcel Number:	7159
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	DUGI DANIEL D
Property Address:	146 POST OAK WAY CUERO, TX 77954-2228
Mailing Address:	146 POST OAK WAY CUERO, TX 77954-2228

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Historical Tax Assessor Record: 10.	
Calculated Land Value:	$13,400.00
Calculated Improvement Value:	$159,860.00
Calculated Total Value:	$173,260.00
Assessed Total Value:	$173,260.00
Assessor's Parcel Number:	7159
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	DUGI DANIEL D
Property Address:	146 POST OAK WAY CUERO, TX 77954-2228
Mailing Address:	146 POST OAK WAY CUERO, TX 77954-2228
Historical Tax Assessor Record: 11.	
Calculated Land Value:	$9,740.00
Calculated Improvement Value:	$222,220.00
Calculated Total Value:	$231,960.00
Assessed Total Value:	$231,960.00
Assessor's Parcel Number:	7159
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	DUGI DANIEL D
Property Address:	146 POST OAK WAY CUERO, TX 77954-2228
Mailing Address:	146 POST OAK WAY CUERO, TX 77954-2228
Historical Tax Assessor Record: 12.	
Calculated Land Value:	$13,400.00
Calculated Improvement Value:	$159,860.00
Calculated Total Value:	$173,260.00
Assessed Total Value:	$173,260.00
Assessor's Parcel Number:	7159
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	DUGI DANIEL D
Property Address:	146 POST OAK WAY CUERO, TX 77954-2228
Mailing Address:	146 POST OAK WAY CUERO, TX 77954-2228
Historical Tax Assessor Record: 13.	
Calculated Land Value:	$9,740.00
Calculated Improvement Value:	$222,510.00
Calculated Total Value:	$232,250.00
Assessed Total Value:	$232,250.00
Assessor's Parcel Number:	7159
Homestead Exempt:	HOMEOWNER EXEMPTION
Absentee Owner:	OWNER OCCUPIED
Owner:	DUGI DANIEL D
Property Address:	146 POST OAK WAY CUERO, TX 77954-2228
Mailing Address:	146 POST OAK WAY CUERO, TX 77954-2228

ADDITIONAL PROPERTIES POSSIBLY CONNECTED TO OWNER may have been located. The owner's mailing address is associated with other properties as indicated by tax assessor records. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Real Property Transaction Record

Source Information

Filings Current Through:	06/30/2020
County Last Updated:	09/17/2020
Frequency of Update:	WEEKLY
Current Date:	09/22/2020
Source:	COUNTY CLERK

Transaction Information

Seller Name:	DUGI DANIEL JR & ELIZABETH
Deed Type:	GRANT DEED
Document Type:	DEED
Type of Transaction:	NOMINAL
Recording Date:	12/23/2002
Recording Book/ Page:	BOOK 121, PAGE 934
Construction Type:	SALE IS A RE-SALE
InterFamily Transaction:	INTERFAMILIAL TRANSACTION

Owner Information

Owner(s):	DANIEL D DUGI
Property Address:	146 POST OAK WAY CUERO, TX 77954-2228

Property Information

County:	DEWITT
Assessor's Parcel Number:	7159
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

TRANSACTION HISTORY REPORT may be available for this property. The report contains details about all available transactions associated with this property. The report may include information about sales, ownership transfers, refinances, construction loans, 2nd mortgages, or equity loans based on recorded deeds. Additional charges may apply.

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Real Property Transaction Record

Source Information

Filings Current Through:	06/30/2020
County Last Updated:	09/17/2020
Frequency of Update:	WEEKLY
Current Date:	09/22/2020
Source:	COUNTY CLERK

Owner Information

Owner(s):	DAN & BLI M DUGI
Owner Relationship:	HUSBAND AND WIFE
Absentee Owner:	SITUS FROM SALE (ABSENTEE)
Property Address:	502 LIVE OAK ST CUERO, TX 77954-2965
Mailing Address:	146 POST OAK WAY CUERO, TX 77954-2228

Transaction Information

Transaction Date:	12/19/2013
Seller Name:	CATRON KEITH W & CONNIE C
Deed Type:	GRANT DEED
Document Type:	WARRANTY DEED
Type of Transaction:	RESALE
Recording Date:	01/06/2014
Document Number:	101184
Recording Book/ Page:	BOOK 496, PAGE 62
	STEWART TITLE
Construction Type:	SALE IS A RE-SALE
Purchase Payment:	CASH

Property Information

County:	DEWITT
Assessor's Parcel Number:	3858
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	3870

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Real Property Transaction Record

Source Information

Filings Current Through:	06/30/2020
County Last Updated:	09/17/2020
Frequency of Update:	WEEKLY
Current Date:	09/22/2020
Source:	COUNTY CLERK

Transaction Information

Transaction Date:	10/25/2012
Seller Name:	PETERS AUDREY L
Deed Type:	GRANT DEED
Document Type:	WARRANTY DEED
Type of Transaction:	RESALE
Recording Date:	10/26/2012
Document Number:	92607
Recording Book/Page:	BOOK 449, PAGE 766
	STEWART TITLE
Construction Type:	SALE IS A RE-SALE
Purchase Payment:	CASH

Owner Information

Owner(s):	DAN DUGI
Absentee Owner:	SITUS FROM SALE (ABSENTEE)
Property Address:	1030 US HIGHWAY 183 CUERO, TX 77954-7400
Mailing Address:	146 POST OAK WAY CUERO, TX 77954-2228

Property Information

County:	DEWITT
Assessor's Parcel Number:	18581
Property Type:	SINGLE FAMILY RESIDENCE - TOWNHOUSE
Land Use:	SINGLE FAMILY RESIDENCE
Building Square Feet:	1464

TAX ASSESSOR RECORD may be available for this property. The record contains information from the office of the local real property tax assessor office. In addition to identifying the current owner, the record may include tax assessment information, the legal description, and property characteristics. Additional charges may apply.

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