A-0236

1765602 - R8 SDMS

March 3, 1972

Mr. Sherman B. Hinckley
Rico Argentine Mining Company
Rico, Colorado

Re: Production Records

Dear Sherman:

The following information has been taken from the records of the Burley Bldg. Basement, which might help the picture of the previous report. This information is strictly assay information with some vague tonnages:

In 1909 the Mill Heads from the Phoenix averaged 5.21 oz/ton Ag, 11.37% Pb, 25.10% Zn, tr Au with no indicated tonnage. From the records they produced a product approximately four times better than the mill heads in lead and twice in zinc. In 1908 from Aug. to Dec., the indicated mine production was tr Au, 7.31 oz Ag, 24.21% Pb, & 27.42% Zn. In 1909 from Jan. to Aug., the indicated mine production was 0.01 oz Au, 7.43 oz Ag, 17.12% Pb, 28.83% Zn. Two assays showed 6.0% Cu.

From July to Sept., 1908 the Yellow Jacket showed 5.59 oz Ag, 12.75% Pb, 27.25% Zn; the Yellow Jacket #3 Tunnel showed 3.49 oz Ag, 12.58% Pb, & 22.34% Zn; the Yellow Jacket #4 Tunnel showed 5.12 oz Ag, 18.01% Pb, & 20.89% Zn. In 1909 the Yellow Jacket #4 Tunnel showed 4.31 oz Ag, 7.11% Pb, & 20.2% Zn.

In 1909, the Pro Patria indicated mill heads were 14.58 oz Ag, 10.74% Pb, & 17.60% Zn. At this same time the Wellington mill heads were 12.71 oz Ag, 15.52% Pb, & 25.25% Zn.

The assays for the Futurity Tunnel in 1907 showed 0.03 oz Au, 2.99 oz Ag, 3.6% Pb, 6.5% Zn, & 0.3% Cu.

In 1908 the Grand View showed an indicated production of 33.08 oz Ag & 50.3% Pb. This was leaser ore, so I would assume the production to be nill.

The Falcon Mine from Dec., 1908 to May, 1909 showed an overall picture of 0.055 oz Au, 9.26 oz Ag, 7.42% Pb, & 2.37% Zn, which included oxidized ore & Quartz vien ore. The copper ore taken from the Falcon Mine assayed as 0.05 oz Au, 11.0 oz Ag, 13.5% Pb, 32.7% Zn, & 4.6% Cu. The assays were very erratic and probably are not representative of the ore.

From April to Aug. of 1908, the Atlantic Cable mill heads were recorded as 4.39 oz Ag, 3.26% Pb, & 12.87% Zn. The indicated assay mill recovery figured about 62%. The mine samples indicated an ore production for 1907 as tr Au, 8.61 oz Ag, 6.15% Pb, & 11.325% Zn, and for 1908 as tr Au, 6.90 oz Ag, 6.815% Pb, & 17.24% Zn.

In 1908 the Shamrock mine indicated a mill head of 3.37 oz Ag, 2.81% Pb, & 10.42% Zn; in 1909 of 4.01 oz Ag, 10.65% Pb, & 16.92% Zn. This ore was milled with the Yellow Jacket, Phoenix, & Atlantic Cable; although, they apparently kept the ore separate.

In 1907, the Shamrock mine samples assayed as 4.42 oz Ag, 8.62% Pb, & 18.95% Zn; in 1908 -- tr Au, 3.72 oz Ag, 4.15% Pb, & 13.66% Zn; in 1909 -- tr Au, 4.01 oz Ag, 2.36% Pb, & 10.04% Zn. The silver values are about the only assays that the mine and mill agree.

In 1907 the Potter Tunnel production was waste rock with the following assay: tr Au, 0.86 oz Ag, tr Pb, tr Zn, & tr Cu. They showed some iron production of 25.3% Fe.

The same information of the Potter Tunnel applies to the Riverside Tunnel for 1907 -- waste rock.

There were no records available for the years of 1910 to and including 1912.

In 1913 from the Shamrock, Atlantic Cable, and other

(?) mines, they milled approximately 4,511 tons of ore that assayed 6.7 oz Ag, 18.83% Pb, 28.64% Zn. The tonnage and assays are very vague and could not be separated as to what mine the production was derived.

In 1917, the mill (?) shipped 190 railroad cars of crude ore from what I believed was "high-grading" from the mill heads. At this time the gravity mill was a custom mill and probably acted as a broker. The ore orginated from the following mines: Shamrock, Atlantic Cable, Wellington, Pro Patria, Argentine, and several small diggings on Newman and Nigger Baby Hills. The bulk of the ore I believe came from the Wellington, Atlantic Cable, Argentine, and Shamrock mines and in that order. The mill graded the shipments into five classes and were probably shipped to various smelters in order to take advantage of the price -- Lead Zinc, Lead Silver, Copper Sulphide, Iron Sulphide, and Zinc Lead shipments.

The following assays were taken from the recorded lot shipments (not settlement sheets). Which records showed assays, car numbers, dates, kind of shipments, but no weights:

Lead-Silver shipments: 17.00 oz Ag, 31.53% Pb, & 9.19% Zn with some shipments showing a trace of copper.

Zinc-Lead shipments: 10.49 oz Ag, 21.01% Pb, & 28.65% Zn.

Lead-Zinc shipments: 11.08 oz Ag, 30.57% Pb, & 26.60% Zn.

Copper Sulphide shipments: 10.64 oz Ag, 3.00% Pb & 6.46% Cu, showing no assay for zinc.

Iron Sulphide shipments: records showed 17 cars shipped, no assay, and shipped to Vanadium, (?) Colo. These shipments probably came from the Wellington Mine; although, there were no records showing this fact.

This completes the information which was searched from the Burley Bldg. Basement records.

Yours very truly,

O. L. Jahnke

RICO ARGENTINE MINING CO.

MINE, MILL AND ACID PLANT

RICO, COLORADO

2/21/72

Mr. Sherman B. Hinckley
Rico Argentine Mining Co.
P. O. Box 158, Rico, Colo.

Re: Production records derived from the Burley Bldg. only.

Dear Sherman:

The following is a composite of the production records from the Burley Bldg. basement. The records are not complete, but they should give you a good picture as to grade.

The years from 1892 to 1913, I am sure are very much incomplete; from 1913 to 1923 the records are reasonably good; from 1924 to 1927 the records are non existent, although I know from "hearsay" the camp was "booming" in 1925 & 1926; from 1928 to 1930 the records seem to be good; from 1931 to 1938 again there were no records and as before from "hearsay" the mining was on the up trend in 1937; from 1939 to 1957 the records seem to be good; in 1958 I could not find any production other than the Pyrite, which was vague and not included; from 1959 to-date the record is complete, except for the Pyrite production.

I have found assays on various mines which might be of some use to you and will be compiled separately.

It is too bad a more complete set of production records were not kept.

Yours very truly,

O. L. Jahnke

RICO ARGENTINE MINING COMPANY
PYRITE ORE MINED
WET TONS

	1/31/56 to 1/31/57	1/31/57 to 1/31/58	1/31/58 to 1/31/59	1/31/59 to 1/31/60	1/31/60 to 1/31/61
February		3,279	4,020		226
March		4,942			3,457
April		3,372			3,865
May		4,999			3,859
June		5,241			3,692
July		4,922		2,645	3,643
August		4,654		2,849	3,452
September		4,371		3,447	4,315
October		4,142		3,487	3,598
November		3,302		3,447	4,812
December		5,020			4,830
January		4,166		2,514	4,494
Pyrite Mined - Wet Tons	-0-	52,410	4,020	18,389	44,243
Pyrite Sold - Wet Tons	1,847	1,233	59	-0-	150
Mined Pyrite Used for Production	-0-	51,177	3,961	18,389	44,093

RICO ARGENTINE MINING CO.

INTEROFFICE CORRESPONDENCE

TO: Sherman B. Hinckley

DATE 3/10/72

COPIES TO:

FROM: Orval

SUBJECT

Sherm,

I found a little more information for the years of 1926 and 1927 which were missing:

1926 - (6 mos.) the Falcon (?) produced 11,530 tons of ore that assayed 0.008 oz. Au, 3.52 oz Ag, 10.77% Pb, 15.38% Zn, and 0.27% Cu.

1927 - (12 mos.) the Falcon (?) produced 16,235 tons of ore that assayed 0.0084 oz. Au, 3.56 oz. Ag, 11.89% Pb, 16.4% Zn, and 0.22% Cu.

1926 - (4 mos.) the Atlantic Cable produced 1525 tons of ore that assayed tr Au, 6.69 oz. Ag, 3.73% Pb, and 24.38% Zn.

1925 - (4 mos.) the Shamrock produced approximate 1150 tons of ore that averaged tr Au, 1.14 oz. Ag, 8.53% Pb, and 14.21% Zn.

1926 - (Jan.) the Shamrock produced approximately 200 tons of shipping ore that averaged tr Au, 2.22 oz. Ag, 8.01% Pb, and 14.3% Zn.

I am sure the above tonnages are incorrect, but the assay should be good. From hearsay every place on the hill was producing a little ore around this time, but the records sure don't show it.

Or

RICO ARGENTINE MINING COMPANY
P. O. Box 158
Rico, Colorado 81332
February 18, 1972

Composite Production Report 1892-1971

Year	Mine	Tons	Assay					
			Au oz	Ag oz	Pb %	Zn %	Cu %	S%
1892	Logan	652.2	0.11	40.91	27.11	-----	------	
1893	Sambo	60.4	tr	63.95	13.80	-----	------	
1894	Sheridan	182.9	tr	32.18	37.53	-----	------	
1895	No Records							
1896	Logan	289.2	0.17	27.73	6.01	-----	------	
	Wellington	61.9	0.08	23.59	11.14	-----	------	
1897	Logan	383.7	0.16	30.41	17.79	-----	------	
	Wellington	45.5	0.08	21.00	9.65	-----	------	
1898	No Records							
1899	Sheridan	164.6	0.07	25.66	17.04	-----	------	
	Wellington	172.4	tr	7.17	8.60	-----	------	
1900	Sheridan	165.2	0.10	12.27	10.55	3.30	------	
1901	Sheridan	71.4	tr	19.23	15.27	-----	------	
	Sambo	7.6	tr	42.30	16.90	11.30	------	
1902	Argentine	26.0	tr	103.27	23.93	18.10	0.90	
	Butler	8.6	0.16	427.00	19.00	11.10	2.10	
	Wellington	76.7	tr	32.16	9.33	-----	2.30	
1903	Wellington	1267.0	tr	10.88	-----	-----	4.34	
1904	Butler	7.9	tr	360.60	20.20	-----	2.10	
	Wellington	734.5	tr	18.44	8.81	-----	1.30	
1905	Wellington	229.9	tr	4.13	-----	-----	2.68	
1906	Wellington	1603.5	tr	3.85	-----	-----	3.05	
1907	Wellington	1121.9	tr	4.01	-----	-----	2.48	
1908 to 1912	No Records							
1913	Argentine	26.0	0.05	3.65	-----	-----	2.69	
	Wellington	193.5	0.015	30.15	29.98	14.90	-----	
	Wellington	1358.0	0.024	6.31	-----	-----	7.135	
	Newman	105.8	18.75	58.10	11.34	-----	0.80	

Year	Mine	Tons	Assay					
			Au oz	Ag oz	Pb %	Zn %	Cu %	S %
1914	Argentine	470.5	0.048	11.205	-----	-----	2.88	
1915	Argentine	48	0.03	11.7	14.80	19.10	-----	
	Argentine	291	0.032	11.04	-----	-----	2.63	
	Wellington	5902	0.0286	7.536	-----	-----	2.66	
	Wellington	71	0.04	11.90	15.60	18.95	tr	
1916	Argentine	494.5	0.0276	11.22	5.28	4.84	2.21	
	Wellington	316	0.05	24.82	10.81	1.82	2.18	
1917	Blaine	640.3	tr	7.48	6.79	9.71	2.59	
	Blaine	6557.0	0.0185	6.18	-----	-----	3.61	
	~~Argentine~~	~~1811~~	~~0.505~~	~~170.80~~	~~20.9~~	-----	-----	
	~~Batchelar~~	~~17~~	~~0.505~~					
	Argentine	1811	0.023	13.95	14.20	22.11	2.98	
	Batchelar	17	0.505	170.80	20.9	-----	-----	
	Syndicate	14	0.80	179.80	9.3	16.4	-----	
	Laube	8.5	0.15	34.1	-----	-----	-----	
	Wellington	100.5	0.025	13.82	-----	-----	7.47	
	Wellington	1189.5	0.021	15.67	22.82	6.91	0.25	
1918	Wellington	76	0.025	20.5	24.05	7.45	0.10	
	Argentine	531	0.015	5.78	-----	-----	5.245	
	Argentine	554	tr	-----	14.08	21.13	-----	
	Argentine	3542.4	0.032	7.76	-----	3.72	5.11	
	Blaine	3879	tr	6.34	-----	3.82	3.39	
1919	Argentine	521	tr	9.275	-----	2.10	2.68	
	Blaine	3458	0.045	13.40	-----	-----	2.82	
1920	Wellington	458	tr	1.42	-----	-----	-----	47.2
	Wellington	1274	0.0388	17.07	22.46	0.89	tr	
1921	Wellington	164.5	0.11	1612	1.5	1.5	tr	
1922	Wellington	151	0.05	40.8	11.1	6.45	1.75	
1923	Wellington	452	0.083	34.3	9.42	9.65	1.17	
1924 to 1927	No records, but the place was "booming" in 1926.							
1928	Blaine & Argentine	34,819	0.018	5.74	7.09	10.04	1.90	

Year	Mine	Tons	Assay					
			Au oz	Ag oz	Pb %	Zn %	Cu %	S %
1929	Blaine & Argentine	16,347	0.0158	4.966	8.426	10.83	0.989	
1930	Blaine & Argentine	3867	0.01125	4.60	~~1.00~~ 10.054	12.814	1.043	
1931 to 1938	No Records; however, the mines started-up again in 1937.							
1939	Blaine & Argentine	10,673	tr	3.96	8.48	11.28	1.02	
	Blaine	1012	tr	4.06	-----	-----	5.16	
1940	Blaine	6488	tr	3.86	-----	-----	4.93	
	Argentine	30,302	0.02	4.34	7.636	10.23	tr	
1941	Blaine & Argentine	35,723	tr	4.02	7.61	9.67	0.398	
1942	Argentine	8,239.7	tr	3.79	7.66	10.11	0.20	
	Blaine	906.1	tr	3.84	11.65	15.31	1.03	
	Van Winkle	46.3	0.15	8.31	6.97	15.00	0.50	
	Pro Patria	236.7	tr	7.55	10.1	14.98	1.18	
	Atlantic Cable	322.2	0.15	4.90	15.80	25.20	2.70	
1943	Pro Patria	1244	0.074	14.82	7.59	12.20	0.75	
	Van Winkle	324	tr	3.60	11.36	13.43	0.43	
	Atlantic Cable	2253	tr	4.28	8.66	23.07	1.23	
	Argentine	28,782	tr	5.72	9.90	15.77	0.02	
	Blaine	1015	tr	4.78	10.70	15.46	0.24	
1944	Pro Patria	1012	0.25	7.875	6.68	10.45	0.67	
	Van Winkle	5417	tr	5.04	4.87	15.37	0.175	
	Atlantic Cable	3922	tr	2.30	2.16	14.39	0.375	
	Argentine	26,301	tr	5.24	9.84	16.34	0.30	
1945	Pro Patria	737	0.0395	8.04	12.76	14.72	0.81	
	Van Winkle	14,238	tr	5.15	8.12	15.65	0.395	
	Atlantic Cable	895	tr	3.62	7.19	11.875	0.21	
	Argentine	19,877	tr	4.84	7.81	14.77	0.19	

Year	Mine	Tons	Assay					
			Au oz	Ag oz	Pb %	Zn %	Cu %	S %
1946	Pro Patria	533	0.055	20.915	8.195	10.03	0.67	
	Van Winkle	17,848	tr	5.02	5.06	15.35	0.18	
	Argentine	17,198	tr	4.98	7.17	13.63	0.22	
1947	Pro Patria	425.7	0.02	6.74	11.19	13.84	0.58	
	Van Winkle	19,101.8	tr	3.10	6.50	10.55	nil	
	Ahkeah	500.7	tr	3.60	7.47	11.74	0.33	
	Mt. Springs	272.4	0.01	8.80	16.16	10.39	nil	
	Nutmeg	14.4	0.015	10.50	10.40	14.00	0.8	
	Woods Hole	18.9	0.01	3.75	16.4	27.85	0.21	
	Argentine & Blaine	8,825.8	tr	3.98	6.555	12.73	0.30	
1948	Pro Patria	715.1	0.038	7.71	12.71	11.57	0.13	
	Van Winkle	15,569.1	tr	4.02	6.08	12.07	0.22	
	Ahkeah	237.3	tr	2.745	6.575	10.53	0.23	
	Mt. Springs	5,629.7	tr	2.73	5.875	8.25	0.15	
	Yellow Jacket	119.3	tr	4.11	19.80	15.25	tr	
	Falcon	169.0	0.20	3.77	4.06	16.28	0.62	
	Argonaut & Argentine	21.6 11,998.1	tr	3.83	9.255	12.25	0.24	
1949	Pro Patria	416.0	0.05	8.01	13.6	12.1	0.1	
	Van Winkle	4,080.8	tr	5.02	6.21	11.55	0.1	
	Mt. Springs	4,669.5	tr	3.03	6.30	8.44	0.1	
	Argentine	5,693.7	tr	3.18	10.60	12.14	0.1	
	Falcon	138.8	0.1	3.56	4.01	13.72	0.51	
	Swan	11.6	tr	4.93	6.02	5.98	0.46	
1950	Argentine	4,168.3	0.0016	7.60	5.76	7.77	0.1	
	Mt. Springs	8,969.1	tr	3.93	9.37	13.20	0.1	
	Swan	961.6	tr	5.3	7.00	7.10	0.51	
	Atlantic Cable	9.6	tr	3.0	10.3	18.8	0.75	
1951	Argentine	5,655.7	tr	7.45	5.14	7.03	0.44	
	Mt. Springs	25,601.8	tr	3.45	6.87	9.66	tr	
	Swan	2,364.3	tr	2.47	3.80	4.71	tr	
1952	Argentine	9,373	tr	3.50	2.575	3.61	0.91	
	Mt. Springs	29,181	tr	3.48	7.62	9.18	tr	
	Swan	3,225	tr	2.51	3.34	4.90	tr	

YEAR	Mine	Tons	Assay					
			Au oz	Ag oz	Pb %	Zn %	Cu %	S %
1953	Argentine	3,349	tr	5.47	1.60	3.54	1.13	
	Argentine	1127	-----	-----	-----	-----	-----	48.75
	Mt. Springs	35,302	tr	2.96	5.51	8.08	tr	
	Swan	1548	tr	3.12	3.31	5.01	tr	
1954	Argentine	5088	tr	5.22	2.91	6.95	0.67	
	Mountain Springs	35504	tr	3.33	6.42	8.63	tr	
	Mountain Springs	53	-----	-----	-----	-----	-----	47.16
~~Argentine~~								
1955	Argentine	517	tr	2.33	3.03	5.38	tr	
	Blaine	3035	o0.01	4.43	5.29	6.49	0.86	
	Mt. Springs	31,546	tr	3.50	6.67	8.34	tr	
1956	Blaine	9,194	tr	3.56	5.37	5.89	0.61	
	Mt. Springs	19,383	tr	3.95	7.26	8.17	tr	
	St. Louis	4,216	tr	3.62	9.75	9.04	tr	
1957	Argentine	3399	tr	3.85	10.54	11.30	tr	
	Mt. Springs	64	tr	5.40	13.66	12.41	tr	
1958	No record							
1959	St. Louis	4349.6	-----	-----	8.06	7.68	-----	
	Mt. Springs	4697.0	-----	-----	9.42	8.37	-----	
	St. Louis	615	-----	-----	-----	-----	-----	47.07
	Mt. Springs	37,968	-----	-----	-----	-----	-----	47.07
1960	Mt. Springs	9221	-----	-----	7.37	7.49	-----	
	Mt. Springs	24,824	-----	-----	-----	-----	-----	46.8
	Argentine	4877	-----	-----	6.18	6.09	-----	
	St. Louis	15,438	-----	-----	-----	-----	-----	46.8
	Shamrock Dump	1115	-----	-----	6.4	8.4	-----	
1961	Mt. Springs	6078	~~7.19~~	-----	7.10	7.86	-----	
	Argentine	9852	-----	-----	6.29	8.18	-----	
	St. Louis & Mt. Springs	38,787	-----	-----	-----	-----	-----	46.8
1962	Mt. Springs	4769	-----	-----	5.35	6.60	-----	
	Argentine	8512	-----	-----	6.97	8.15	-----	
	St. Louis & Mt. Springs	32,882	-----	-----	-----	-----	-----	46.7
1963	Mt. Springs	4193	-----	-----	9.21	9.34	-----	
	Mt. Springs	13,878	-----	-----	-----	-----	-----	47.06
	Argentine	6054	-----	-----	7.49	8.095	-----	
	St. Louis	16,432	-----	-----	-----	-----	-----	47.24

Year	Mine	Tons	Assay					
			Au oz	Ag oz	Pb %	Zn %	Cu %	S %
1964	Mt. Springs	4724	-----	-----	3.03	5.02	-----	
	Argentine	10,005	-----	-----	9.56	9.72		
	Mt. Springs	15,851	-----	-----	-----	-----	-----	47.8
	St. Louis	11,576	-----	-----	-----	-----	-----	46.4
1965	Mt. Springs	5,506	-----	-----	8.17	7.40	-----	
	Argentine	20,597	-----	-----	10.40	8.69	-----	
1966	Mt. Springs	4694	-----	-----	6.73	6.43	-----	
	Argentine	26,587	-----	-----	8.23	6.94	-----	
	Swan Dump	2239	-----	-----	2.80	2.53	-----	
	Argentine Dump	356	-----	-----	1.80	1.80	-----	
1967	Mt. Springs	165	-----	-----	1.8	1.8	-----	
	Blaine	4713	-----	-----	11.41	9.02	-----	
	Argentine	28,663	-----	-----	13.56	9.44	-----	
1968	Blaine	7467	-----	-----	8.88	7.83	-----	
	Argentine	25,622	-----	-----	11.97	9.33	-----	
1969	Blaine	3707	-----	-----	4.81	6.26	-----	
	Argentine	31,366	-----	-----	7.84	8.78	-----	
1970	Argentine	39,810	-----	-----	9.32	9.30	-----	
	Mill Tailings	6,040	-----	-----	3.4	3.7	-----	
1971	Argentine	5340	-----	-----	7.1	9.75	-----	
	Mill Tailings	10,495	-----	-----	4.2	3.8	-----	

Ramco Production Figures
(Burley Bldg)
1892-1971

Mine	Year	Tons	Au oz	Ag oz	Pb %	Zn %	Cu %
Logan	1892	652.2	0.11	40.91	27.11		
	1896	289.2	0.17	27.73	8.01		
	1897	383.7	0.16	30.41	17.79		
		1,325.1	0.14	34.99	20.24	—	—
Sambo	1893	60.4	—	63.95	13.80		
	1901	7.6	—	42.30	16.90	11.30	
		68.0	—	61.53	14.15	11.30(?) (1.26)	—
Sheridan	1894	182.9	—	32.18	37.53		
	1899	164.6	0.07	25.66	17.84		
	1900	165.2	0.10	12.27	10.55	3.30	
	1901	71.4	—	19.23	15.27		
		584.1	0.05	23.13	21.63	3.30(?) (0.93)	—
Wellington	1896	61.9	0.08	23.59	11.14		
	1897	45.5	0.08	31.00	9.65		
	1899	172.4	—	7.17	8.60		
	1902	76.7	—	32.16	9.33		2.30
	1903	1,267.0	—	10.88			4.34
	1904	734.5	—	18.44	8.81		1.30
	1905	229.9	—	4.13			2.68
	1906	1,603.5	—	3.85			3.05
	1907	1,121.9	—	4.01			2.48
	1913	193.5	0.015	30.15	29.98	14.90	
	1913	1,358.0	0.024	6.31			7.135
	1915	5,902	0.0286	7.536			2.66
	1915	71	0.04	11.90	15.60	18.95	—
	1916	316	0.05	24.82	10.81	1.82	2.18
	1917	100.5	0.025	13.82			7.47
	1917	1,189.5	0.021	15.67	22.82	6.91	0.25
	1918	76	0.025	20.5	24.05	7.45	0.10
	1920	458	—	1.42			
	1920	1,274	0.0382	17.07	22.46	0.89	—
	1921	164.5	0.11	[612?]	1.5	1.5	—

Mine	Year	Tons	Au oz	Ag oz	Pb%	Zn%	Cu%
Wellington	1922	151	0.05	40.8	11.1	6.45	1.75
	1923	452	0.083	34.3	9.42	9.65	1.17
		17,019.3	0.022	26.08	(4.93)	(5.22?)	2.66(?)
				[10.60?]	16.85(?)	(1.19)	(2.52)
Argentine	1902	26.0	—	103.27	23.93	18.10	0.90
	1913	26.0	0.05	3.65			2.69
	1914	470.5	0.048	11.205			2.88
	1915	48	0.03	11.7	14.80	19.10	
	1915	291	0.032	11.04			2.63
	1916	494.5	0.0276	11.22	5.28	4.84	2.21
	1917	1,811	0.023	13.55	14.20	22.11	2.98
	1918	531	0.015	5.78			5.245
	1918	554	—		14.08	21.13	
	1918	3,542.4	0.032	7.76		3.72	5.11
	1919	521	—	9.275		2.10	2.88
	1940	30,302	0.02	4.34	7.636	10.23	—
	1942	8,239.7	—	3.79	7.66	10.11	0.20
	1943	28,782	—	5.72	9.90	15.77	0.02
	1944	26,301	—	5.24	9.84	16.34	0.30
	1945	19,877	—	4.84	7.81	14.77	0.19
	1946	17,198	—	4.98	7.17	13.63	0.22
	1949	11,998.1	—	3.83	9.255	12.25	0.24
	1949	5,693.7	—	3.18	10.60	12.14	0.1
	1950	4,168.3	0.0016	7.60	5.76	7.77	0.1
	1951	5,655.7	—	7.45	5.14	7.03	0.44
	1952	9,373	—	3.50	2.575	3.61	0.91
	1953	3,349	—	5.47	1.60	3.54	1.13
	1953	1,127					
	1954	5,088	—	5.22	2.91	6.95	0.67
	1955	517	—	2.33	3.03	5.38	—
	1957	3,399	—	3.85	10.54	11.30	—
	1960	4,877			6.18	6.09	
	1961	9,852		[illegible]	6.29	8.18	

Mine	Year.	Tons	Au oz	Ag oz	Pb%	Zn%	Cu%
Argentine	1962	8,512			6.97	8.15	
	1963	6,054			7.49	8.095	
	1964	10,005			9.56	9.72	
	1965	20,597			10.40	8.69	
	1966	26,587			8.23	6.94	
	1967	28,663			13.56	9.44	
	1968	25,622			11.97	9.33	
	1969	31,366			7.84	8.78	
	1970	39,810			9.32	9.30	
	1971	5,340			7.1	9.75	
		406,668.9	0.004 (?)	5.09 (?)	8.84 (?)	10.35 (?)	0.38 (?)
			(0.002)	(2.35)	(8.70)	(10.28)	(0.17)
Butler	1902	8.6	0.16	427.00	19.00	11.10	2.10
	1904	7.9	—	360.60	20.20		2.10
		16.5					
Newman	1913	105.8	18.75	58.10	11.34		0.80
		105.8	18.75	58.10	11.34	—	0.80
Blaine	1917	640.3	—	7.48	6.79	9.71	2.59
	1917	6,557.0	0.0185	6.18			3.61
	1918	3,879	—	6.34		3.82	3.39
	1919	3,458	0.045	13.40			2.82
	1939	1,012	—	4.06			5.16
	1940	6,488	—	3.86			4.93
	1942	906.1	—	3.84	11.65	15.31	1.03
	1943	1,015	—	4.78	10.70	15.46	0.24
	1955	3,035	0.01	4.43	5.29	6.49	0.86
	1956	9,194	—	3.56	5.37	5.89	0.61
	1967	4,713			11.41	9.02	

Mine	Year	Tons	Au oz	Ag oz	Pb %	Zn %	Cu %
Blaine	1968	7,467			8.88	7.83	
	1969	3,707			4.81	6.26	
		52,071.4					
Batchelar	1917	17	0.505	170.80	20.9		
		17	0.505	170.80	20.9	—	—
Syndicate	1917	14	0.80	179.80	9.3	16.4	
		14	0.80	179.80	9.3	16.4	—
Laube	1917	8.5	0.15	34.1			
		8.5	0.15	34.1	—	—	—
Blaine & Argentine	1928	34,819	0.018	5.74	7.09	10.04	1.90
	1929	16,347	0.0158	4.966	8.426	10.83	0.989
	1930	3,867	0.01125	4.60	10.054	12.814	1.043
	1939	10,673	-	3.96	8.48	11.28	1.02
	1941	35,723	-	4.02	7.61	9.67	0.398
	1947	8,825.8	-	3.98	6.555	12.73	0.30
		110,254.8					
Falcon	1926	11,530	0.008	3.52	10.77	15.38	0.27
	1927	16,235	0.0084	3.56	11.89	16.4	0.22
	1948	169	0.20	3.77	4.06	16.28	0.62
	1949	138.8	0.1	3.56	4.01	13.72	0.51
		28,072.8					

Mine	Year	Tons	Au oz	Ag oz	Pb %	Zn %	Cu %
Atlantic Cable	1926	1,525	–	6.69	3.73	24.38	
	1942	322.2	0.15	4.90	15.80	25.20	2.70
	1943	2,253	–	4.28	8.66	23.07	1.23
	1944	3,922	–	2.30	2.16	14.39	0.375
	1945	895	–	3.62	7.19	11.875	0.21
	1950	9.6	–	3.0	10.3	18.8	0.75
		8,926.8		3.78	5.07	18.43	0.72
Shamrock	1925	1,150	–	1.14	8.53	14.21	
	1926	200	–	2.22	8.01	14.3	
		1,350.0					
Van Winkle	1942	46.3	0.15	8.31	6.97	15.00	0.50
	1943	324	–	3.60	11.36	13.43	0.43
	1944	5,417	–	5.04	4.87	15.37	0.175
	1945	14,238	–	5.15	8.12	15.65	0.395
	1946	17,848	–	5.02	5.06	15.315	0.18
	1947	19,101.8	–	3.10	6.50	10.55	–
	1948	15,569.1	–	4.02	6.08	12.07	0.22
	1949	4,080.8	–	5.02	6.21	11.55	0.1
		76,625					
Pro Patria	1942	236.7	–	7.55	10.1	14.88	1.18
	1943	1,244	0.074	14.82	7.59	12.20	0.75
	1944	1,012	0.25	7.875	6.68	10.45	0.67
	1945	737	0.0395	8.04	12.76	14.72	0.81
	1946	533	0.055	20.915	8.195	10.03	0.67
	1947	425.7	0.02	6.74	11.19	13.84	0.58
	1948	715.1	0.038	7.71	12.71	11.57	0.13

Mine		year	Tons	Au oz	Ag oz	Pb %	Zn %	Cu %
Pro Patria		1949	416.0	0.05	9.01	13.6	12.1	0.1
			5,319.5					
Ahkeah		1949	509.7	—	3.60	7.47	11.74	0.33
		1948	237.3	—	2.745	6.575	10.53	0.23
			747.0					
Mt. Springs		1947	272.4	0.01	8.80	16.16	10.39	—
		1948	5,629.7	—	2.73	5.875	8.25	0.15
		1949	4,669.5	—	3.03	6.30	8.44	0.1
		1950	8,969.1	—	3.93	9.37	13.20	0.1
		1951	25,601.8	—	3.45	6.87	9.66	—
		1952	29181	—	3.48	7.62	9.18	—
		1953	35,302	—	2.96	5.51	8.08	—
		1954	35,504	—	3.33	6.42	8.63	—
	py	1954	53					
		1955	31,546	—	3.50	6.67	8.34	—
		1956	19,383	—	3.95	7.26	8.17	—
		1957	64	—	5.40	13.66	12.41	—
		1959	4,697			9.42	8.37	
	py	1959	37,968					
		1960	9,221			7.37	7.49	
	py	1960	24,824					
		1961	6,078			7.10	7.86	
	py	1961	38,787					
		1962	4,769			5.35	6.60	
	py	1962	32,882					
		1963	4,193			9.21	9.34	
	py	1963	13,878					
		1964	4,724			3.03	5.02	
	py	1964	15,851					

Mine	Year	Tons	Au oz	Ag oz	Pb%	Zn%	Cu%
Mt. Springs	1965	5,506			8.17	7.40	
	1966	4,694			6.73	6.43	
	1967	165			1.8	1.8	
		404,412.5					
Nutmeg	1947	14.4	0.015	10.50	10.40	14.00	0.8
		14.4	0.015	10.50	10.40	14.00	0.8
Woods Hole	1947	18.9	0.01	3.75	16.4	27.85	0.21
		18.9	0.01	3.75	16.4	27.85	0.21
Yellow Jacket	1948	119.3	–	4.11	19.80	15.25	–
		119.3	–	4.11	19.80	15.25	
Swan	1949	11.6	–	4.93	6.02	5.98	0.46
	1950	961.6	–	5.3	7.00	7.10	0.51
	1951	2,364.3	–	2.47	3.80	4.71	–
	1952	3,225	–	2.51	3.34	4.90	–
	1953	1,548	–	3.12	3.31	5.01	–
		8,110.5					
St. Louis	1956	4,216	–	3.62	9.75	9.04	–
	1959	4,349.6			8.06	7.68	
	PY 1959	615					
	PY 1960	15,438					

Mine		year	Tons	Au oz	Ag oz	Pb%	Zn%	Cu%
St. Louis	py	1963	16,432					
	py	1964	11,576					
			52,626.6					
Shamrock Dump		1960	111.5			6.4	8.4	
			111.5			6.4	8.4	
Swan Dump		1966	2,239			2.80	2.53	
			2,239			2.80	2.53	
Argentine Dump		1966	356			1.80	1.80	
			356			1.80	1.80	
Mill Tailings		1970	6,040			3.4	3.7	
		1971	10,495			4.2	3.8	
			16,535					

Mine	Tons		
Logan	1,325.1		
Sambo	68.0		
Sheridan	584.1		
Wellington	17,019.3	Hm	Blackhawk
Argentine	406,668.9	Hm	
Blaine	52,071.4	Hm	
Butler	16.5		
Newman	105.8		
Batchelor	17.0		
Syndicate	14.0		
Falcon	28,072.8	Hm	
Atlantic Cable	8,926.8	Ml	
Shamrock	1,350.0	Ml	
Van Winkle	76,625.0	Ml	
Pro, Patria	5,319.5		veins?
Ahkeah	747.0		
Mtn. Springs	404,412.5	Hm	
Nutmeg	14.4		
Wards Hole	18.9		
Yellow Jacket	119.3		
Swan	8,110.5		
St. Louis	52,626.6	Hm	

Mine	Tons	Au oz	Ag oz	Pb %	Zn %	Cu %	
Logan	1,325.1	0.14	34.99	20.24			Pb-Ag-(Au)
Sambo	60.4	–	63.95	13.80			Pb-Ag
	7.6	–	42.30	16.90	11.30		Pb-Zn-Ag
	68.0						
Sheridan	418.9	0.028	27.41	26.00			Pb-Ag
	165.2	0.10	12.27	10.55	3.30		Pb-Zn-Ag
	584.1						
Wellington	11,582.8	0.018	6.89			3.45	Cu-Ag
	811.2	–	19.74	8.86		1.39	Cu-Pb-Ag
	919.0	0.066	32.11	10.17	6.43	1.61	Cu-Pb-Zn-Ag
	1,553.8	0.037	16.64	20.10			Pb-Ag
	1,530.0	0.021	17.57	23.45	8.51		Pb-Zn-Ag
	622.5						Misc.
	17,019.3						
Agentine	1,318.5	0.031	8.83			3.77	Cu-Ag
	4,063.4	0.028	7.95		3.51	4.82	Cu-Zn-Ag
	5,654.5	0.010	8.69	5.96	9.60	1.82	Cu-Pb-Zn-Ag
	217,939.0	–		9.56	8.76		Pb-Zn
	176,666.5	0.003	4.88	8.03	12.48	(0.20)	Pb-Zn-Ag
	4,127.0						Misc.
	406,668.9						

Mine	Tons	Au g	Ag g	Pb %	Zn %	Cu %	
Blaine	17,515.0	0.016	6.62			4.03	Cu-Ag
	3,879.0	—	6.34		3.82	3.39	Cu-Zn-Ag
	1,546.4	—	5.35	9.64	12.99	1.68	Cu-Pb-Zn-Ag
	15,887.0	—		8.68	7.82		Pb-Zn
	13,244.0	0.002	3.85	5.76	6.76	(0.64)	Pb-Zn-Ag
	52,071.4						
Blaine & Argentine	65,706.0	0.014	5.19	7.82	10.60	1.48	Cu-Pb-Zn-Ag
	44,548.8	—	4.01	7.40	10.28	(0.38)	Pb-Zn-Ag
	110,254.8						
Butler	7.9	—	360.60	20.20		2.10	Cu-Pb-Ag
	8.6	0.16	422.00	19.00	11.10	2.10	Cu-Pb-Zn-Ag
	16.5						
Newman	105.8	18.75	58.10	11.34		(0.80)	Pb-Ag-(Au)
Batchelar	17.0	0.505	170.80	20.9			Pb-Ag-(Au)
Syndicate	14.0	0.80	179.80	9.3	16.4		Pb-Zn-Ag-(Au)
Laube	8.5	0.15	34.1				Ag-(Au)
Falcon	28,072.8	0.010	3.54	11.34	15.97	(0.24)	Pb-Zn-Ag

Mine	Tons	Au oz	Ag oz	Pb%	Zn%	Cu%	
Atlantic Cable	2,575.2	0.019	4.36	9.55	23.34	1.41	Cu-Pb-Zn-Ag
	6,351.6	—	3.54	3.26	16.44	(0.35)	Pb-Zn-Ag
	8,926.8						
Shamrock	1,350.0	—	1.30	8.45	14.22		Pb-Zn-Ag
Van Winkle	76,625.0	—	4.36	6.27	13.33	(0.18)	Pb-Zn-Ag
Pro Patria	236.7	—	7.55	10.1	14.98	1.18	CuPb-Zn-Ag
	5,082.8	0.090	10.86	9.74	12.03	(0.58)	Pb-Zn-Ag
	5,319.5						
Ahkeah	747.0	—	3.33	7.19	11.36	(0.30)	Pb-Zn-Ag
Mtn. Springs	44,047.0			7.05	7.30		Pb-Zn
	196,122.5	—	3.40	6.75	8.85	—	Pb-Zn-Ag
	164,243.0						Misc.
	404,412.5						
Nutmeg	14.4	0.015	10.50	10.40	14.00	(0.8)	Pb-Zn-Ag
Woods Hole	18.9	0.01	3.75	16.4	27.85	(0.21)	Pb-Zn-Ag
Yellow Jacket	119.3	—	4.11	19.80	15.25	—	Pb-Zn-Ag

Mine	Tons	Au oz	Ag oz	Pb %	Zn %	Cu %	
Swan	8,110.5	—	2.95	3.91	5.13	(0.06)	Pb-Zn-Ag
St. Louis	4,349.6			8.06	7.68		Pb-Zn
	4,216.0	—	3.62	9.75	9.04		Pb-Zn-Ag
	44,061.0						Misc.
	52,626.6						
Shamrock Dump	111.5			6.4	8.4		Pb-Zn
Swan Dump	2,239.0			2.80	2.53		Pb-Zn
Argentine Dump	356.0			1.80	1.80		Pb-Zn
Mill Tailings	16,535.0			3.91	3.76		Pb-Zn

Bertha S Group

Mohawk No. 1		Bertha S	1956 A
" " 2		Aetna	1956
Aetna " 2		Pasadena	6434
Helen		Bertha S Millsite	1955-B
Martha		Bald Eagle	2641

Lillie D Group

15 Claims.

Glen Campbell	1897	Little Margaret	
Lillie D		Ella	
Madam DeFarge		Ruth	
Little Byron		Zig Zag Lode	
Carrie		Black George	2485
Klondike		Royal Turk	8020
Rock Mountain		Silver Belt	8020
Virginia			

Lookout Lode Mining Claim

1 Claim.

Wellington Group

36 Claims.

Wellington	2212	Iron Claw	
Maid of Australia	1587	Leap Year	6105
Lottie	8223	Black Night	8136
Zona K	8228	Excelsior	8141
C S & H H	6286	Excelsior No. 2	8141
Gen. Sheridan	2479	Undine	8140
Gen. Sherman	2477	Iron Rod	8140
Gen. O.O. Howard	2478	World's Fair	15233
Gen. Logan	2476	Robber State	1467
Cerebus	1665	Tip Top	1248
Baby Ruth		Uncle Ned	915
Acme		Harvey	914
Mountain Boy		Ethlena	6136
Empire		Little Gasper	
Slide		Goliath	1665
Telescope		× Ray	1665
Triangle		Hornet	
Fair View		Hidden Treasure	

-. Sirrell Group .-

6 Claims.

Gipsy	2199	Mammoth	
Roger Tichborne	7784	Mountain Boy	
Monarch		Last Chance	
Carbonate Queen ?			

-. Swickhimer Group .-

7 Claims.

Mountain Spring	6129	Little Giant	
Riverside		Victory	
Black George No.2		Combination	
Iron Mine			

-. Mill Site .-

Lots 1 - 20 inclusive. Block 28 Rico excluding lot 14/

-Silver Creek Group .-

8 Claims.

Catskill	7062	Richmond	6333
Alta		Number Seven	
H. B.		Clear Creek	
E.R.G.		Dortha	

-. Silver Swan Group .-

22 Claims.

Tango		New Era	
White Hope		Crescent	
Champion		N. A. Cowdry	6317
Wamba		Condor	
Panama		Dawson	
Nirvana		Mesaba	
Sunrise		Silver Swan	
Signal		Sahhem	
War Cry		Pine Knot	
Tamale		Little Maggie	8070
Burchard	8470	Hardscrabble	8070
Twilight		2-4 acre tracts	
		1-7 acre tract	

-- Argentine Group .-

14 Claims.

Stoney Point	1489	Cashier	15233
Peru	1455	D & B B	8539
Zulu	1457	Ely	7044
Mountain Monarch	1454	Honduras	7843
Atlanta		Humboldt	15233
Black Chief	1449	Eclipse	
Argentine	15233	James G. Blain	15233

-- Iron Mine Group .-

3 Claims.

Iron Mine Lode	(8755)?	Uncertainty	
Lucky Number			

-- Rico Consolidated Group .-

10 Claims.

Lelia Davis	1243	Bald Eagle	2441
Lillie Bernard	6404	Lucky Boy No. 1.	
Rico	1848	Lucky Boy No. 2.	
Eliza Jane	2641	Lucky Boy Fraction	
Lucky Boy		Rico Fraction	

-- A. B. G. Group .-

9 Claims.

Manaska		Jennie	
A.B.G.		Monte Christo	
F.B.G.		Esmerelda	
Thayer		Del,onte	
Amy			

-- Rico Argentine Co .-

6 Claims.

Avalanche		Salt Lake	
Fraction		Ophir	
Unita		Shorty	

247 POINTS SAVED ON MS

CONTROL POINTS

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DUMP        5
PT    4     11295.142 N      10295.915 E   steel pin in grouted rocks near BPR bra
                                             cap on west side highway

DUMP        5
PT  537     11783.303 N      11492.500 E   coord point at Nora Lilley tunnel
PT  538     11680.746 N      10966.631 E   coord point at Nutmeg tunnel
PT  539      9832.649 N      11421.995 E   coord point at Van Winkle shaft
PT  540      9701.347 N      10338.134 E   coord point at Atlantic Cable shaft
PT  541     10979.959 N      11997.583 E   coord point at Futurity tunnel
PT  542     10694.269 N      12672.123 E   coord point at Falcon tunnel
PT  543     10317.835 N      12865.555 E   coord point at Ahkeah tunnel
PT  544     10794.210 N      13754.711 E   coord point at Larson tunnel

DUMP        5
PT  634      4690.944 N      10000.133 E   SE cor. Sec 35, T 40 N, R 11 W, NMPM
PT  635      4037.199 N      10053.281 E   monumented location USLM-3
PT  637     15208.899 N       9961.152 E   SE cor. Sec 23, T 40 N, R 11 W, NMPM
PT  638     10395.661 N      11885.506 E   coord post near cor 1 Rico TS
PT  639     10083.213 N      11894.934 E   monumented location USLM-1
PT  640     10000.000 N      10000.000 E   coord post (+10,000.00,+10,000.00) R.A.Co
PT  641     12259.147 N      13072.882 E   monumented location USLM-Dolores
PT  642      8952.961 N      13885.384 E   station on Revenue dump
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CONTROL POINTS

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INVBR      12
FRØM    4 TØ  537   DIS:    1292.330  BR: N  67  48' 23.000" E

INVBR      12
FRØM    4 TØ  538   DIS:     773.660  BR: N  60   6' 17.000" E

INVBR      12
FRØM    4 TØ  539   DIS:    1845.790  BR: S  37  35' 43.000" E

INVBR      12
FRØM  639 TØ  540   DIS:    1602.950  BR: S  76  13'  5.000" W

INVBR      12
FRØM  642 TØ  541   DIS:    2769.930  BR: N  42  57' 49.000" W

INVBR      12
FRØM  642 TØ  542   DIS:    2122.300  BR: N  34  52'  1.000" W.

INVBR      12
FRØM  642 TØ  543   DIS:    1703.800  BR: N  36  46'  1.000" W

INVBR      12
FRØM  642 TØ  544   DIS:    1845.880  BR: N   4   3' 34.000" W

HALT      100

PRØCESSING    11 UNITS
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Mine	Tons	Au oz	Ag oz	Pb %	Zn %	Cu %	
Wellington	11,582.8	0.018	6.89			3.45	Cu-Ag
Argentine	1,318.5	0.031	8.83			3.77	
Blaine	17,515.0	0.016	6.62			4.03	
	30,416.3	0.017	6.82			3.80	
Wellington	811.2	–	19.74	8.86		1.39	Cu-Pb-Ag
Butler	7.9	–	360.60	20.20		2.10	
	819.1	–	23.03	8.97		1.40	
Argentine	4,063.4	0.028	7.95		3.51	4.82	Cu-Zn-Ag
Blaine	3,879.0	–	6.34		3.82	3.39	
	7,942.4	0.014	7.16		3.66	4.12	
Wellington	919.0	0.066	32.11	10.17	6.43	1.61	Cu-Pb-Zn-Ag
Argentine	5,654.5	0.010	8.69	5.96	9.60	1.82	
Blaine	1,546.4	–	5.35	9.64	12.99	1.68	
Blaine & Argentine	65,706.0	0.014	5.19	7.82	10.60	1.48	
Butler	8.6	0.16	427.00	19.00	11.10	2.10	
Atlantic Cable	2,575.2	0.019	4.36	9.55	23.34	1.41	
Pro Patria	236.7	–	7.55	10.1	14.98	1.18	
	76,646.4	0.014	5.80	7.81	10.97	1.51	
Logan	1,325.1	0.14	34.99	20.24			Pb-Ag
Sambo	60.4	–	63.95	13.80			
Sheridan	418.9	0.028	27.41	26.00			
Wellington	1,553.8	0.037	16.64	20.10			
Newman	105.8	18.75	58.10	11.34			
Batchelar	17.0	0.505	170.80	20.9			
	3,481.0	0.645	27.76	20.49			
		(0.078)					

Mine	Tons	Au oz	Ag oz	Pb %	Zn %	Cu %	
Samba	7.6	–	42.30	16.90	11.30		Pb-Zn-Ag
Sheridan	165.2	0.10	12.27	10.55	3.30		
Wellington	1,530.0	0.021	17.57	23.45	8.51		
Argentine	176,666.5	0.003	4.88	8.03	12.48		
Blaine	13,244.0	0.002	3.85	5.76	6.76		
Blaine & Argentine	44,548.8	–	4.01	7.40	10.28		
Syndicate	14.0	0.80	179.80	9.3	16.4		
Falcon	28,072.8	0.010	3.54	11.34	15.97		
Atlantic Cable	6,351.6	–	3.54	3.26	16.44		
Shamrock	1,350.0	–	1.30	8.45	14.22		
Van Winkle	76,625.0	–	4.36	6.27	13.33		
Pro Patria	5,082.8	0.090	10.86	9.74	12.03		
Ahkeah	747.0	–	3.33	7.19	11.36		
Mtn. Springs	196,122.5	–	3.40	6.75	8.85		
Nutmeg	14.4	0.015	10.50	10.40	14.00		
Woods Hole	18.9	0.01	3.75	16.4	27.85		
Yellow Jacket	119.3	–	4.11	19.80	15.25		
Swan	8,110.5	–	2.95	3.91	5.13		
St. Louis	4,216.0	–	3.62	9.75	9.04		
	563,006.9	0.002	4.17	7.37	11.10		
Argentine	217,839.0	–		9.56	8.76		Pb-Zn
Blaine	15,887.0	–		8.68	7.82		
Mtn. Springs	44,047.0			7.05	7.30		
St. Louis	4,349.6			8.06	7.68		
	282,122.6	–		9.10	8.46		
Shamrock	111.5			6.4	8.4		Pb-Zn (Dumps)
Swan	2,239.0			2.80	2.53		
Argentine	356.0			1.80	1.80		
Mill Tailo	16,535.0			3.91	3.76		
	19,241.5			3.76	3.61		

Mine	Tons	Au oz	Ag oz	Pb %	Zn %	Cu %	
Wellington	622.5						Py
Argentine	6,127.0						
Mtn. Springs	164,243.0						
St. Louis	44,061.0						
	210,053.5						
							Ag-(Au)
Lanke	8.5	0.15	34.1				

Type	Tons	Au oz	Ag oz	Pb %	Zn %	Cu %
Cu-Ag	30,416.3	0.017	6.82			3.30
Cu-Pb-Ag	819.1	—	23.03	8.97		1.40
Cu-Zn-Ag	7,942.4	0.014	7.16		3.66	4.12
Cu-Pb-Zn-Ag	76,646.4	0.014	5.80	7.81	10.97	1.51
	115,824.2					
Pb-Ag	3,481.0	(0.078)	27.76	20.49		
Pb-Zn-Ag	563,006.9	0.002	4.17	7.37	11.10	
Pb-Zn	282,122.6	—		9.10	8.46	
	848,610.5					
Py	210,053.5					
Dumps	19,241.5			3.76	3.61	

Total Base Metal 964,434.7 — not incl. Py or dumps

Base Metal & Py 1,174,488.2

Mine	Ag/Au	Ag/Cu	Ag/Pb	Ag/Zn	Ag/Pb+Zn	Ag/Cu+Pb+Zn	Ag/Pb1	Ag/Pb2	Ag/Cu*	
~~Argentine~~ Logan	250		1.73							Pb-Ag
Sambo	∞		4.63							Pb-Ag
	∞		2.50	3.74	1.50		70			Pb-Zn-Ag
Sheridan	979		1.05							Pb-Ag
	123		1.16	3.72	0.89		16			
Wellington	383	2.00								Cu-Ag
	∞	14.20	2.23							Cu-Pb-Ag
	487	19.94	3.16	4.99	1.93	1.76	53	57	365	Cu-Pb-Zn-Ag
	450		2.83							Pb-Ag
	837		0.75	2.06	1.50		70			Pb-Zn-Ag
Argentine	285	2.34								Cu-Ag
	284	1.65		2.26						Cu-Zn-Ag
	869	4.77	1.46	0.91	0.56	0.50	23	26	83	Cu-Pb-Zn-Ag
	1,627		0.61	0.39	0.24		13			Pb-Zn-Ag
Blaine	414	2.00								Cu-Ag
	∞	1.87		1.66						Cu-Zn-Ag
	∞	3.18	0.55	0.41	0.24	0.22	12	13	76	Cu-Pb-Zn-Ag
	1,925		0.67	0.57	0.31		8			Pb-Zn-Ag
B&A	371	3.51	0.66	0.49	0.28	0.26	12	13	70	Cu-Pb-Zn-Ag
	∞		0.54	0.39	0.23		10			Pb-Zn-Ag
Butler	∞	171.71	17.85							Cu-Pb-Ag
	2,669	203.33	22.47	38.46	14.19	13.26	678	724	6,569	Cu-Pb-Zn-Ag
Newman	3		5.12							Pb-Ag
Batchelor	338		8.17							Pb-Ag
Syndicate	225		19.33	10.96	7.00		499			Pb-Zn-Ag

Mine	Ag/Au	Ag/Cu	Ag/Pb	Ag/Zn	Ag/Pb+Zn	Ag/Cu+Pb+Zn	Ag/Pb1	Ag/Pb2	Ag/Cu*	
Falcon	354		0.31	0.22	0.13		8			Pb-Zn-Ag
Atlantic Cable	229	3.09	0.46	0.19	0.13	0.13	15	16	106	Cu-Pb-Zn-Ag
	∞		1.09	0.22	0.18		21			Pb-Zn-Ag
Shamrock	∞		0.15	0.09	0.06		4			Pb-Zn-Ag
Van Winkle	∞		0.70	0.33	0.22		14			Pb-Zn-Ag
Pro Patria	∞	6.40	0.75	0.50	0.30	0.29	19	20	172	Cu-Pb-Zn-Ag
	121		1.11	0.90	0.50		24			Pb-Zn-Ag
Ahkeah	∞		0.46	0.29	0.18		9			Pb-Zn-Ag
Mtn. Springs	∞		0.50	0.38	0.22		8			Pb-Zn-Ag
Nutmeg	700		1.01	0.75	0.43		24			Pb-Zn-Ag
Woods Hole	375		0.23	0.13	0.08		10			Pb-Zn-Ag
Yellow Jacket	∞		0.21	0.27	0.12		7			Pb-Zn-Ag
Swan	∞		0.75	0.58	0.33		7			Pb-Zn-Ag
St. Louis	∞		0.37	0.40	0.19		7			Pb-Zn-Ag

Mine	Pb+Zn	Cu+Pb+Zn	Pb/Pb+Zn	Pb/Cu+Pb+Zn	Cu/Cu+Pb+Zn	
Logan	—	—	—	—	—	Pb-Ag
Sambo	—	—	—	—	—	Pb-Ag
	28.20		0.60			Pb-Zn-Ag
Sheridan	—	—	—	—	—	Pb-Ag
	13.85		0.76			Pb-Zn-Ag
Wellington	—	—	—	—	—	Cu-Ag
	—	—	—	—	—	Cu-Pb-Ag
	16.60	18.21	0.61	0.56	0.088	Cu-Pb-Zn-Ag
	—	—	—	—	—	Pb-Ag
	31.96		0.73			Pb-Zn-Ag
Argentine	—	—	—	—	—	Cu-Ag
	—	—	—	—	—	Cu-Zn-Ag
	15.56	17.38	0.38	0.34	0.105	Cu-Pb-Zn-Ag
	18.32		0.52			Pb-Zn
	20.51		0.39			Pb-Zn-Ag
Blaine	—	—	—	—	—	Cu-Ag
	—	—	—	—	—	Cu-Zn-Ag
	22.63	24.31	0.43	0.40	0.069	Cu-Pb-Zn-Ag
	16.50		0.53			Pb-Zn
	12.52		0.46			Pb-Zn-Ag
B&A	18.42	19.90	0.42	0.39	0.074	Cu-Pb-Zn-Ag
	17.68		0.42			Pb-Zn-Ag
Butler	—	—	—	—	—	Cu-Pb-Ag
	30.10	32.20	0.63	0.59	0.065	Cu-Pb-Zn-Ag
Newman	—	—	—	—	—	Pb-Ag
Butchular	—	—	—	—	—	Pb-Ag

Mine	Pb+Zn	Cu+Pb+Zn	Pb / Pb+Zn	Pb / Pb+Zn+Cu	Cu / Cu+Pb+Zn	
Syndicate	25.70		0.36			Pb-Zn-Ag
Falcon	27.31		0.42			Pb-Zn-Ag
Atlantic Cable	32.89	34.30	0.29	0.28	0.041	Cu-Pb-Zn-Ag
	19.70		0.17			Pb-Zn-Ag
Shamrock	22.67		0.37			Pb-Zn-Ag
Van Winkle	19.60		0.32			Pb-Zn-Ag
Pro Patria	25.08	26.26	0.40	0.38	0.044	Cu-Pb-Zn-Ag
	21.77		0.45			Pb-Zn-Ag
Ankeah	18.55		0.39			Pb-Zn-Ag
Mtn. Springs	14.35		0.49			Pb-Zn
	15.60		0.43			Pb-Zn-Ag
Nutmeg	24.40		0.43			Pb-Zn-Ag
Woods Hole	44.25		0.37			Pb-Zn-Ag
Yellow Jacket	35.05		0.56			Pb-Zn-Ag
Swan	9.04		0.43			Pb-Zn-Ag
St. Louis	18.79		0.52			Pb-Zn-Ag.

Mine	Ag/Au	Ag/Cu	Ag/Pb	Ag/Zn	Ag/Pb+Zn	Ag/Cu+Pb+Zn	Ag/Pb1	Ag/Pb2	Ag/Cu*	
Wellington	383	2.00								Cu-Ag
Argentine	285	2.34								
Blaine	414	1.64								
Wellington	∞	14.20	2.23							Cu-Pb-Ag
Butler	∞	171.71	17.85							
Argentine	284	1.65		2.26						Cu-Zn-Ag
Blaine	∞	1.87		1.66						
Wellington	487	19.94	3.16	4.99	1.93	1.76	53	57	365	Cu-Pb-Zn-Ag
Argentine	869	4.77	1.46	0.91	0.56	0.50	23	26	83	
Blaine	∞	3.18	0.55	0.41	0.24	0.22	12	13	76	
B & A	371	3.51	0.66	0.49	0.28	0.26	12	13	70	
Butler	2,669	203.33	22.47	38.46	14.19	13.26	678	724	6,569	
Atlantic Cable	229	3.09	0.46	0.19	0.13	0.13	15	16	106	
Pro Patria	∞	6.40	0.75	0.50	0.30	0.29	19	20	172	
Logan	250		1.73							Pb-Ag
Sambo	∞		4.63							
Sheridan	979		1.05							
Wellington	450		0.33							
Newman	3.0		5.12							
Batchelor	338		8.17							

Mine	Ag/Au	Ag/Pb	Ag/Zn	Ag/Pb+Zn	Ag/Pb	
Sambo	∞	2.50	3.74	1.50	70	Pb-Zn-Ag
Sheridan	123	1.16	3.72	0.89	16	
Wellington	837	0.75	2.06	0.55	24	
Argentine	1,627	0.61	0.39	0.24	13	
Blaine	1,925	0.67	0.57	0.31	8	
B&A	∞	0.54	0.39	0.23	10	
Syndicate	225	19.33	10.96	7.00	499	
Falcon	354	0.31	0.22	0.13	8	
Atlantic Cable	∞	1.09	0.22	0.18	21	
Shamrock	∞	0.15	0.09	0.06	4	
Van Winkle	∞	0.70	0.33	0.22	14	
Pro Patria	121	1.11	0.90	0.50	24	
Ankerch	∞	0.46	0.29	0.18	9	
Mtn. Springs	∞	0.50	0.38	0.22	8	
Nutmeg	700	1.01	0.75	0.43	24	
Woods Hole	375	0.23	0.13	0.08	10	
Yellow Jacket	∞	0.21	0.27	0.12	7	
Swan	∞	0.75	0.58	0.33	7	
St. Louis	∞	0.37	0.40	0.19	7	

	Rico	Gilman	Leadville
oz Au	83,045	348,253	2,985,776
oz Ag	14,513,288	64,108,793	240,055,514
tons Cu	5,637	103,095	53,109
tons Pb	83,847	127,829	1,088,204
tons Zn	82,717	646,820	785,380

	Bingham*
oz Au	2,377,418
oz Ag	136,125,378
tons Cu	408,249
tons Pb	2,090,140
tons Zn	854,546

	Rico	Gilman	Leadville	Bingham*
Au	1	4.19	35.95	28.63
Ag	1	4.42	16.54	9.38
Cu	1	18.29	9.42	72.42
Pb	1	1.52	12.98	24.93
Zn	1	7.82	9.49	10.33
Pb+Zn	1	4.65	11.25	17.68
Cu+Pb+Zn	1	5.10	11.19	19.47

Normalize to ΣPb+Zn

Au	1	0.90	3.20	1.62
Ag	1	0.95	1.47	0.53
Cu	1	3.93	0.84	4.10
Pb	1	0.33	1.15	1.41
Zn	1	1.68	0.84	0.58

	Hinsdale	Ouray	San Juan
g Au	71,558	1,966,937	1,668,796
g Ag	5,831,910	47,359,441	44,455,794
tons Cu	1,506	20,274	42,286
tons Pb	50,544	116,692	289,058
tons Zn	867	33,483	139,966

	San Miguel
g Au	3,926,484
g Ag	62,742,885
tons Cu	45,214
tons Pb	244,345
tons Zn	166,916

	Hinsdale	Ouray	San Juan	San Miguel
Au	48	97	39	87
Ag	3,872	2,336	1,051	1,388
Cu	1	1	1	1
Pb	34	6	7	5
Zn	0.6	2	3	4
Ag/Au	81	24	27	16
Pb/Pb+Zn	0.98	0.78	0.67	0.59

	Rico	Gilman	Leadville	Bingham*
Au	15	3	.56	6
Ag	2,575	622	4,520	333
Cu	1	1	1	1
Pb	15	1	20	5
Zn	15	6	15	2
Ag/Au	175	184	80	57
Pb/Pb+Zn	0.50	0.17	0.58	0.71
Cu/Cu+Zn	0.06	0.14	0.06	0.32

Mine	Pb+Zn	Cu+Pb+Zn	Pb/Pb+Zn	Pb/Cu+Pb+Zn	Cu/Cu+Pb+Zn	
Wellington	16.60	18.21	0.61	0.56	0.088	Cu-Pb-Zn-Ag
Argentine	15.56	17.38	0.38	0.34	0.105	
Blaine	22.63	24.31	0.43	0.40	0.069	
B & A	18.42	19.90	0.42	0.39	0.074	
Butler	30.10	32.20	0.63	0.59	0.065	
Atlantic Cable	32.89	34.30	0.29 ←	0.28	0.041	
Pro Patria	25.08	26.26	0.40	0.38	0.044	
Sambo	28.20		0.60			Pb-Zn-Ag
Sheridan	13.85		0.76			
Wellington	31.96		0.73			
Argentine	20.51		0.39			
Blaine	12.52		0.46			
B & A	17.68		0.42			
Syndicate	25.70		0.36			
Falcon	27.31		0.42			
Atlantic Cable	19.70		0.17 ←			
Shamrock	22.67		0.37			
Van Winkle	19.60		0.32			
Pro Patria	21.77		0.45			
Ahkeah	18.55		0.39			
Mtn. Springs	15.60		0.43			
Nutmeg	24.40		0.43			
Woods Hole	44.25		0.37			
Yellow Jacket	35.05		0.56			
Swan	9.04		0.43			
St. Louis	18.79		0.52			

Mine	Pb+Zn	—	Pb/Pb+Zn	
Argentine	18.32		0.52	Pb-Zn
Blaine	16.50		0.53	
Mtn. Springs	14.35		0.49	
St. Louis	15.74		0.51	
Shaaraa	14.80		0.43	Dumps
Swan	5.33		0.53	
Argentine	3.60		0.50	
Mill Tails	7.67		0.51	