Inspection Report For Well: UT20736 - 04553

U.S. Environmental Protection Agency
Underground Injection Control Program, 8ENF-T
999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 9/24/2013

INSPECTOR(S): Lead: Roberts, Sarah — Date: ~~10~~ 12/10/2013

Others: Ajayi, Christopher — Time: 2:54 am / pm

OPERATOR (only if different): _____

REPRESENTATIVE(S): Chad Stevinson

PRE-INSPECTION REVIEW

Petroglyph Operating Company, Inc

Well Name:	Ute Tribal 16-12		
Well Type:	Enhanced Recovery (2R)		
Operating Status:	AC (ACTIVE) as of 12/31/2002		
Oil Field:	Antelope Creek (Duchesne)		
Location:	NWSW S16 T5S R3W		
Indian Country:	X, Uintah and Ouray		
Last Inspection:	8/28/2012	***Allowable Inj Pressure:***	1900 /
Last MIT:	Pass 11/4/2010	***Annulus Pressure From Last MIT:***	1090

BLACK = POSSIBLE VIOLATION GREY = DATA MISSING

INSPECTION TYPE: **(Select One)**

- [ ] Construction / Workover
- [ ] Plugging
- [ ] Post-Closure
- [ ] Response to Complaint
- [x] Routine
- [ ] Witness MIT
- [ ] Other

ICIS Entered
Date 12/30/13
Initials DB

OBSERVED VALUES:

Tubing Gauge:	[x] Yes [ ] No	Pressure: U: 1829 / L: ____ psig Gauge Range: Scada psig	Gauge Owner:	[ ] EPA [x] Operator
Annulus Gauge:	[x] Yes [ ] No	Pressure: 0 psig Gauge Range: opened psig	Gauge Owner:	[x] EPA [ ] Operator
Bradenhead Gauge:	[ ] Yes [ ] No	Pressure: ____ psig Gauge Range: ____ psig	Gauge Owner:	[ ] EPA [ ] Operator
Pump Gauge:	[ ] Yes [ ] No	Pressure: ____ psig Gauge Range: ____ psig	Gauge Owner:	[ ] EPA [ ] Operator

Operating Status: (Select One)
- [x] Active
- [ ] Being Reworked
- [ ] Not Injecting
- [ ] Production
- [ ] Plugged and Abandoned
- [ ] Under Construction

Entered
Date 12/17/13
Initial

See page 2 for photos, comments, and site conditions.

TAB	GREEN	BLUE	CBI
		1	

Inspection Report For Well: UT20736 - 04553 (PAGE 2)

PHOTOGRAPHS: ☐ Yes ☒ No List of photos taken: _____

Comments and site conditions observed during inspection: _____

GPS: GPS File ID: _____

Signature of EPA Inspector(s): _____ _____ _____

☐ Data Entry ☐ Compliance Staff ☐ Hard Copy Filing

NOTICE OF INSPECTION

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII, 999 18TH STREET - SUITE 500
DENVER, COLORADO 80202-2405

Date: 12/10/13
Hour: 8:00a

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).

Firm Name: Petroglyph Operating, Inc.

Firm Address: Roosevelt, UT, Antelope Creek Oil Field

REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water source. The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

Sarah Roberts
Inspector's Name & Title (Print)

Inspector's Signature

EPA R8 3560-1 (8-89)

Original - Regional Office Copy
Yellow Copy - Operator Copy

OMB No. 2040-0042 Approval Expires 11/30/2014

EPA

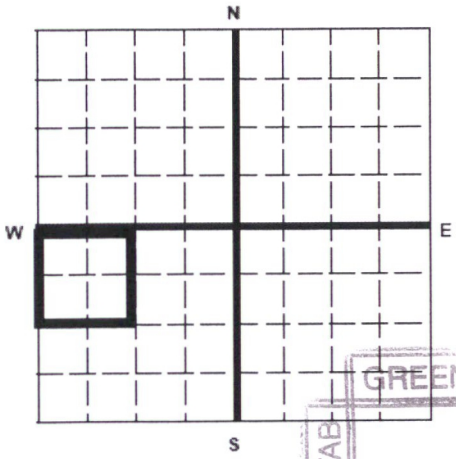
United States Environmental Protection Agency
Washington, DC 20460

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

Name and Address of Existing Permittee
Petroglyph Operating Company, Inc. 2258
P.O. Box 7608
Boise, Idaho 83709

Name and Address of Surface Owner
Ute Indian Tribe
P.O. Box 70
Ft. Duchesne, Utah, 84026

Locate Well and Outline Unit on Section Plat - 640 Acres



State	County	Permit Number
Utah	Duchesne	UT2736-04553

Surface Location Description
___ 1/4 of ___ 1/4 of NW 1/4 of SW 1/4 of Section 16 Township 5S Range 3W

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface Location 1980 ft. frm (N/S) S Line of quarter section
and 660 ft. from (E/W) W Line of quarter section.

U2 Entered
Date 4/3/17
Initial DB

WELL ACTIVITY
- [ ] Brine Disposal
- [X] Enhanced Recovery
- [ ] Hydrocarbon Storage

TYPE OF PERMIT
- [ ] Individual
- [X] Area

Number of Wells 111

Lease Name Ute Indian Tribe Well Number UTE TRIBAL 16-12

GREEN BLUE CBI
TAB 2

MONTH	YEAR	INJECTION PRESSURE AVERAGE PSIG	INJECTION PRESSURE MAXIMUM PSIG	TOTAL VOLUME INJECTED BBL	TOTAL VOLUME INJECTED MCF	TUBING – CASING ANNULUS PRESSURE (OPTIONAL MONITORING) MINIMUM PSIG	TUBING – CASING ANNULUS PRESSURE (OPTIONAL MONITORING) MAXIMUM PSIG
January	16	1821	1871	235		0	0
February	16	1833	1854	224		0	0
March	16	1845	1864	278		0	0
April	16	1831	1860	293		0	0
May	16	1839	1866	388		0	0
June	16	1840	1859	339		0	0
July	16	1826	1846	320		0	0
August	16	1835	1848	355		0	0
September	16	1821	1831	323		0	0
October	16	1853	1859	404		0	0
November	16	1819	1870	305		0	0
December	16	1859	1859	434		0	0

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title *(Please type or print)*	Signature	Date Signed
Chad Stevenson, Water Facilities Supervisor		03/21/2017

Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078

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Units of Measurement: **Standard**

Water Analysis Report

Production Company:	**PETROGLYPH OPERATING CO INC - EBUS**	Sales Rep:	**James Patry**
Well Name:	**UTE TRIBAL 16-12 INJ, DUCHESNE**	Lab Tech:	**Kaitlyn Natelli**
Sample Point:	**Well Head**		
Sample Date:	**1/6/2017**		
Sample ID:	**WA-345381**		

Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specifics

Test Date:	1/23/2017
System Temperature 1 (°F):	300
System Pressure 1 (psig):	2000
System Temperature 2 (°F):	130
System Pressure 2 (psig):	50
Calculated Density (g/ml):	1.0014
pH:	8.00
Calculated TDS (mg/L):	5916.93
CO2 in Gas (%):	
Dissolved CO_2 (mg/L)):	20.00
H_2S in Gas (%):	
H2S in Water (mg/L):	10.00
Tot. SuspendedSolids(mg/L):	
Corrosivity(LanglierSat.Indx)	0.00
Alkalinity:	

Analysis @ Properties in Sample Specifics

Cations	*mg/L*	*Anions*	*mg/L*
Sodium (Na):	1916.63	Chloride (Cl):	2500.00
Potassium (K):	16.76	Sulfate (SO_4):	50.00
Magnesium (Mg):	14.83	Bicarbonate (HCO_3):	1220.00
Calcium (Ca):	32.47	Carbonate (CO_3):	
Strontium (Sr):	3.19	Hydroxide(HO):	
Barium (Ba):	7.52	Acetic Acid (CH_3COO)	
Iron (Fe):	104.80	Propionic Acid (C_2H_5COO)	
Zinc (Zn):	31.74	Butanoic Acid (C_3H_7COO)	
Lead (Pb):	0.00	Isobutyric Acid ($(CH_3)_2CHCOO$)	
Ammonia NH_3:		Fluoride (F):	
Manganese (Mn):	0.19	Bromine (Br):	
Aluminum (Al):	0.16	Silica (SiO_2):	18.80
Lithium (Li):	2.78	Calcium Carbonate ($CaCO_3$):	
Boron (B):	3.02	Phosphates (PO_4):	6.04
Silicon (Si):	8.79	Oxygen (O_2):	

Notes:

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
130.00	50.00	1.00	21.94	1.06	4.04	4.64	9.09	3.56	76.06	0.00	0.00	0.00	0.00	0.00	0.00	11.72	10.07
149.00	267.00	1.06	22.77	0.96	3.94	4.60	9.09	3.66	76.09	0.00	0.00	0.00	0.00	0.00	0.00	11.47	10.07
168.00	483.00	1.16	23.91	0.89	3.85	4.59	9.09	3.78	76.13	0.00	0.00	0.00	0.00	0.00	0.00	11.27	10.07
187.00	700.00	1.26	24.93	0.84	3.76	4.62	9.09	3.89	76.15	0.00	0.00	0.00	0.00	0.00	0.00	11.10	10.07
206.00	917.00	1.38	25.79	0.80	3.70	4.66	9.09	4.01	76.16	0.00	0.00	0.00	0.00	0.00	0.00	10.96	10.07
224.00	1133.00	1.50	26.48	0.78	3.66	4.72	9.09	4.11	76.17	0.00	0.00	0.00	0.00	0.00	0.00	10.84	10.07
243.00	1350.00	1.63	27.02	0.77	3.64	4.79	9.09	4.21	76.18	0.00	0.00	0.00	0.00	0.00	0.00	10.73	10.07
262.00	1567.00	1.76	27.42	0.77	3.64	4.87	9.09	4.30	76.19	0.00	0.00	0.00	0.00	0.00	0.00	10.64	10.07
281.00	1783.00	1.89	27.72	0.78	3.66	4.97	9.09	4.39	76.19	0.00	0.00	0.00	0.00	0.00	0.00	10.57	10.07
300.00	2000.00	2.02	27.93	0.79	3.69	5.08	9.09	4.47	76.20	0.00	0.00	0.00	0.00	0.00	0.00	10.51	10.07

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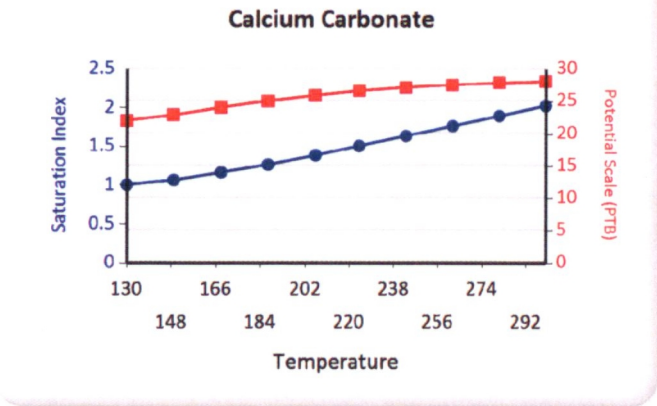
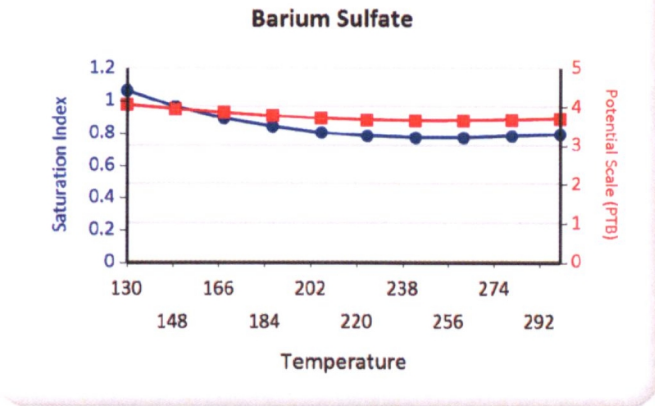
Water Analysis Report

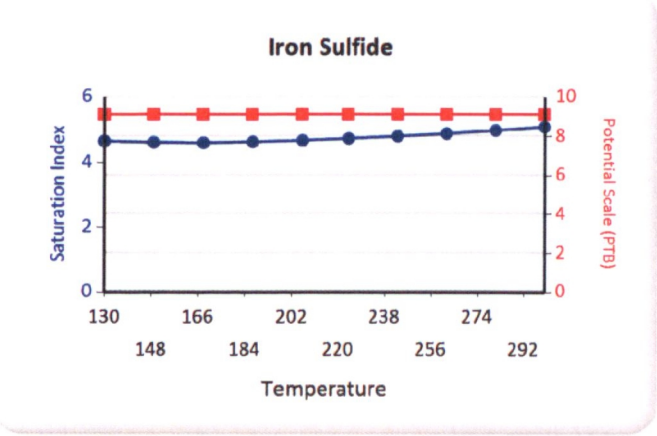
		Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
130.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	2.74	21.26	0.00	0.00	1.38	6.90	0.38	2.41	11.79	43.58
149.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	2.95	21.30	0.00	0.00	2.16	10.82	0.81	5.04	12.29	43.60
168.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00	3.17	21.31	0.00	0.00	3.07	15.56	1.33	8.47	12.94	43.61
187.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	3.37	21.32	0.00	0.00	3.96	19.93	1.85	12.04	13.59	43.61
206.00	917.00	0.00	0.00	0.00	0.00	0.00	0.00	3.55	21.33	0.00	0.00	4.84	23.55	2.37	15.52	14.26	43.61
224.00	1133.00	0.00	0.00	0.00	0.00	0.00	0.00	3.71	21.33	0.00	0.00	5.71	26.16	2.88	18.62	14.92	43.61
243.00	1350.00	0.00	0.00	0.00	0.00	0.00	0.00	3.86	21.33	0.00	0.00	6.54	27.80	3.38	21.12	15.57	43.61
262.00	1567.00	0.00	0.00	0.00	0.00	0.00	0.00	3.99	21.34	0.00	0.00	7.36	28.71	3.87	22.89	16.20	43.61
281.00	1783.00	0.00	0.00	0.00	0.00	0.00	0.00	4.10	21.34	0.00	0.00	8.13	29.18	4.34	24.02	16.82	43.61
300.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	4.20	21.34	0.00	0.00	8.88	29.41	4.79	24.66	17.42	43.61

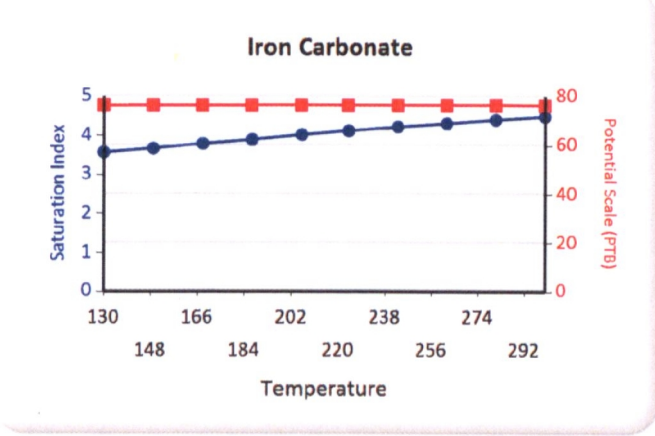
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate









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Vernal, UT 84078

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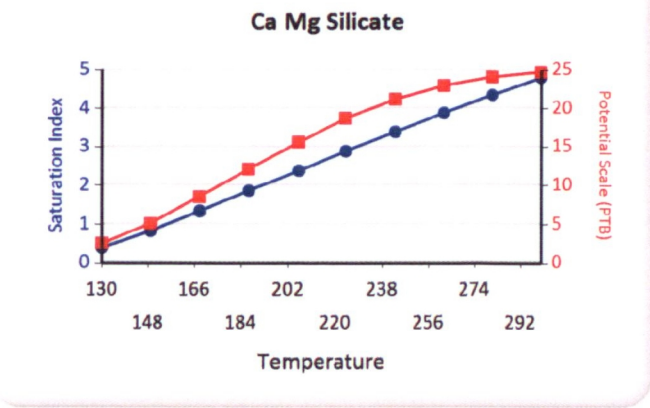
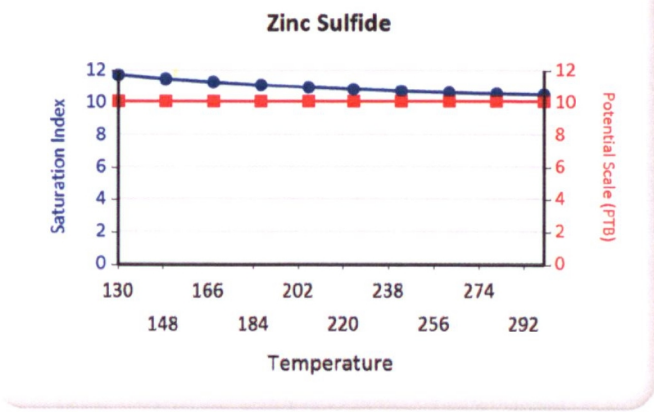
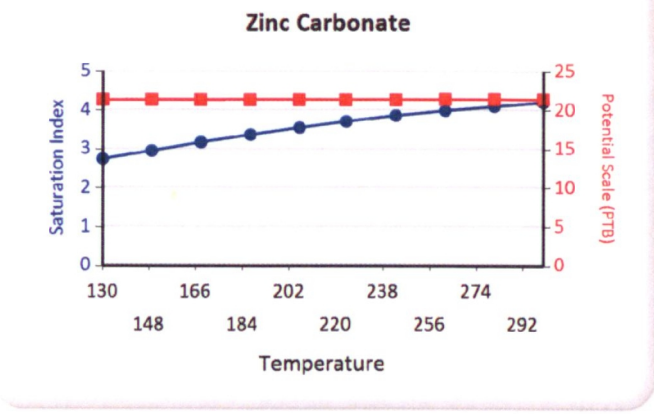
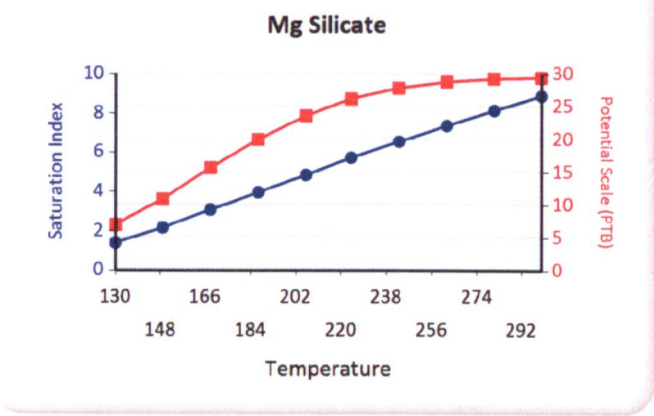
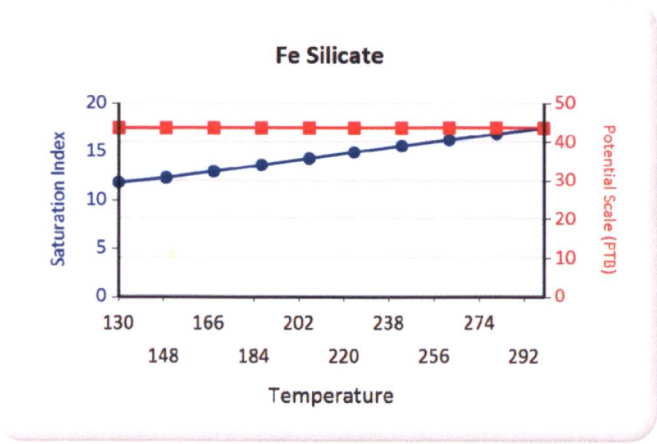
Water Analysis Report










Fe Silicate
Saturation Index
Potential Scale (PTB)
Temperature
20
15
10
5
0
50
40
30
20
10
0
130
148
166
184
202
220
238
256
274
292

OMB No. 2040-0042 Approval Expires 12/31/2011

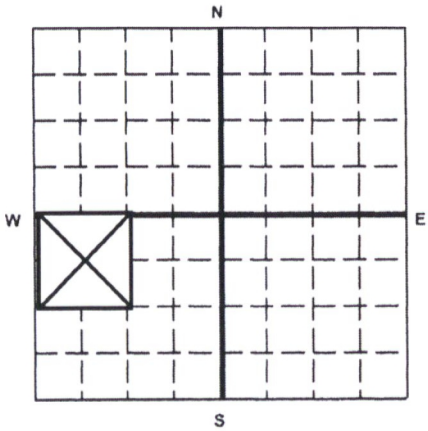
EPA

United States Environmental Protection Agency
Washington, DC 20460

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

Name and Address of Existing Permittee	Name and Address of Surface Owner
Petroglyph Operating Company, Inc. 2258 P.O. Box 7608 Boise, Idaho 83709	Ute Indian Tribe P.O. Box 70 Ft. Duchesne, Utah 84026

Locate Well and Outline Unit on Section Plat - 640 Acres



State	County	Permit Number
Utah	Duchesne	UT2736-04553

Surface Location Description

____ 1/4 of ____ 1/4 of NW 1/4 of SW 1/4 of Section 16 Township 5S Range 3W

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface Location 1980 ft. frm (N/S) S Line of quarter section and 660 ft. from (E/W) W Line of quarter section.

WELL ACTIVITY
- [ ] Brine Disposal
- [X] Enhanced Recovery
- [ ] Hydrocarbon Storage

TYPE OF PERMIT
- [ ] Individual
- [X] Area

Number of Wells 111

Lease Name Ute Indian Tribe Well Number UTE TRIBAL 16-12

		INJECTION PRESSURE		TOTAL VOLUME INJECTED		TUBING -- CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January	14	1834	1840	584		0	0
February	14	1856	1867	581		0	0
March	14	1840	1855	679		0	0
April	14	1841	1862	670		0	0
May	14	1850	1852	775		0	0
June	14	1847	1886	708		0	0
July	14	1832	1860	734		0	0
August	14	1850	1866	776		0	0
September	14	1809	1860	716		0	0
October	14	1836	1853	488		0	0
November	14	1855	1853	489		0	0
December	14	1852	1867	482		0	0

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title *(Please type or print)*	Signature	Date Signed
Chad Stevenson, Water Facilities Supervisor		2/10/2015

EPA Form 7520-11 (Rev. 12-08)

U2 Entered
Date 3/23/15
Initial ow

	GREEN	BLUE	CBI
TAB		2	

Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078

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Units of Measurement: **Standard**

Water Analysis Report

Production Company:	**PETROGLYPH OPERATING CO INC - EBUS**	Sales Rep:	**James Patry**
Well Name:	**UTE TRIBAL 16-12 INJ, DUCHESNE**	Lab Tech:	**Gary Winegar**
Sample Point:	**WELLHEAD**		
Sample Date:	**1/7/2015**		
Sample ID:	**WA-297515**		

Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specifics	
Test Date:	1/14/2015
System Temperature 1 (°F):	160
System Pressure 1 (psig):	1300
System Temperature 2 (°F):	80
System Pressure 2 (psig):	15
Calculated Density (g/ml):	1.0033
pH:	8.30
Calculated TDS (mg/L):	8999.27
CO2 in Gas (%):	
Dissolved CO_2 (mg/L)):	0.00
H_2S in Gas (%):	
H2S in Water (mg/L):	10.00

Analysis @ Properties in Sample Specifics			
Cations	*mg/L*	*Anions*	*mg/L*
Sodium (Na):	2496.70	Chloride (Cl):	3000.00
Potassium (K):	37.26	Sulfate (SO_4):	194.00
Magnesium (Mg):	26.79	Bicarbonate (HCO_3):	3172.00
Calcium (Ca):	42.75	Carbonate (CO_3):	
Strontium (Sr):	5.26	Acetic Acid (CH_3COO)	
Barium (Ba):	2.42	Propionic Acid (C_2H_5COO)	
Iron (Fe):	1.41	Butanoic Acid (C_3H_7COO)	
Zinc (Zn):	0.20	Isobutyric Acid ($(CH_3)_2CHCOO$)	
Lead (Pb):	0.00	Fluoride (F):	
Ammonia NH_3:		Bromine (Br):	
Manganese (Mn):	0.07	Silica (SiO_2):	20.41

Notes:
B=5.69 Al=.07 Li=1.21

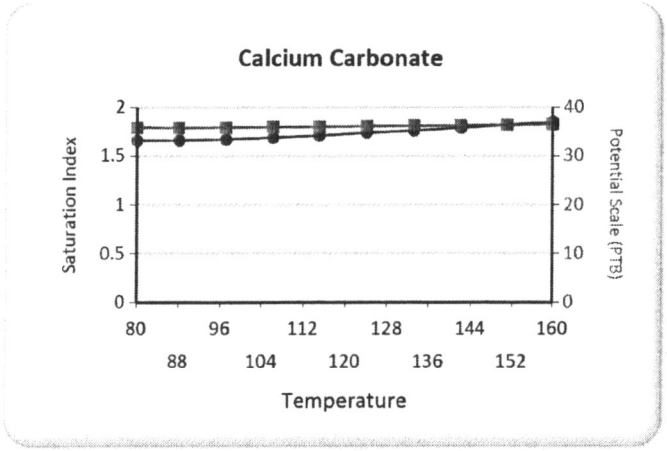
(PTB = Pounds per Thousand Barrels)

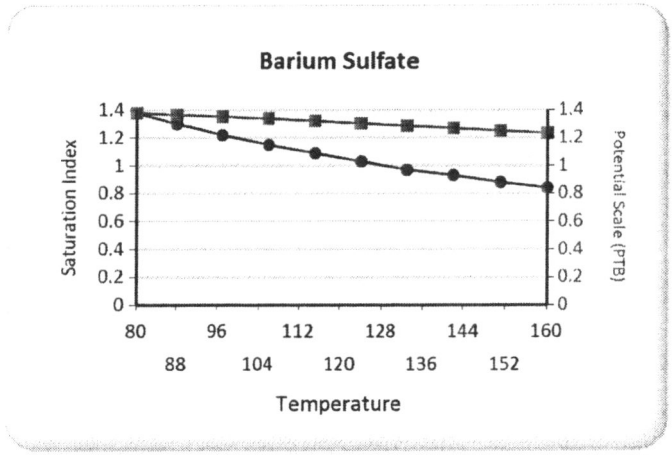
		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
80.00	14.00	1.66	35.87	1.38	1.38	3.45	0.78	2.19	1.02	0.00	0.00	0.00	0.00	0.00	0.00	10.56	0.11
88.00	157.00	1.66	35.77	1.30	1.37	3.36	0.78	2.22	1.02	0.00	0.00	0.00	0.00	0.00	0.00	10.37	0.11
97.00	300.00	1.67	35.86	1.22	1.35	3.30	0.78	2.26	1.02	0.00	0.00	0.00	0.00	0.00	0.00	10.20	0.11
106.00	443.00	1.69	35.94	1.15	1.34	3.25	0.78	2.31	1.02	0.00	0.00	0.00	0.00	0.00	0.00	10.05	0.11
115.00	585.00	1.71	36.03	1.09	1.32	3.21	0.78	2.36	1.02	0.00	0.00	0.00	0.00	0.00	0.00	9.91	0.11
124.00	728.00	1.74	36.12	1.03	1.30	3.18	0.78	2.40	1.02	0.00	0.00	0.00	0.00	0.00	0.00	9.78	0.11
133.00	871.00	1.76	36.21	0.97	1.29	3.15	0.78	2.45	1.02	0.00	0.00	0.00	0.00	0.00	0.00	9.66	0.11
142.00	1014.00	1.79	36.29	0.93	1.27	3.13	0.78	2.49	1.02	0.00	0.00	0.00	0.00	0.00	0.00	9.54	0.11
151.00	1157.00	1.82	36.38	0.88	1.25	3.12	0.78	2.54	1.02	0.00	0.00	0.00	0.00	0.00	0.00	9.43	0.11
160.00	1300.00	1.85	36.47	0.84	1.23	3.11	0.78	2.58	1.02	0.00	0.00	0.00	0.00	0.00	0.00	9.33	0.11

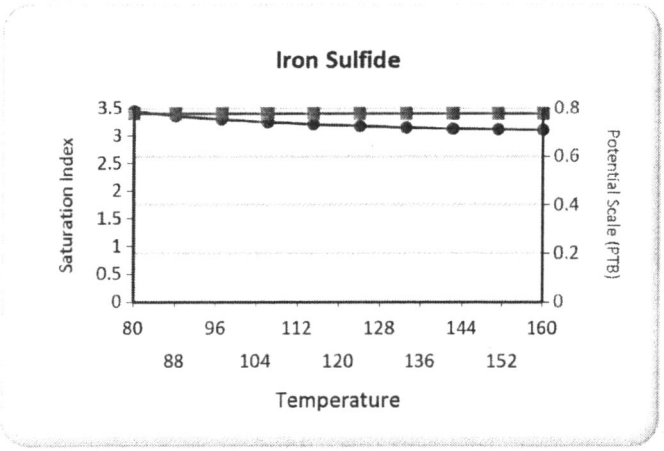
		Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
80.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.09	0.00	0.00	0.97	7.85	0.10	1.06	6.36	1.09
88.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.10	0.00	0.00	1.22	9.30	0.21	1.84	6.44	1.09
97.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.11	0.00	0.00	1.60	11.84	0.41	3.25	6.66	1.09
106.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.11	0.00	0.00	1.99	14.23	0.62	4.61	6.89	1.09
115.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	0.91	0.12	0.00	0.00	2.39	16.44	0.84	5.88	7.13	1.09
124.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	0.12	0.00	0.00	2.80	18.42	1.06	7.05	7.39	1.09
133.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	1.13	0.12	0.00	0.00	3.20	20.12	1.28	8.10	7.65	1.09
142.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.13	0.00	0.00	3.61	21.50	1.51	9.03	7.92	1.09
151.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.13	0.00	0.00	4.02	22.57	1.74	9.83	8.19	1.09
160.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	0.13	0.00	0.00	4.44	23.34	1.97	10.49	8.48	1.09

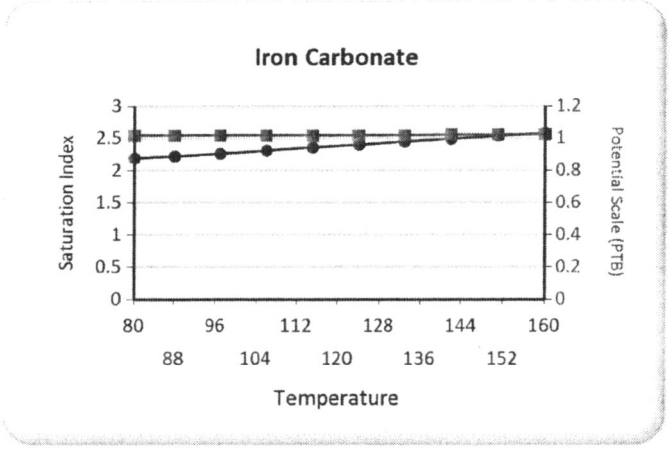
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

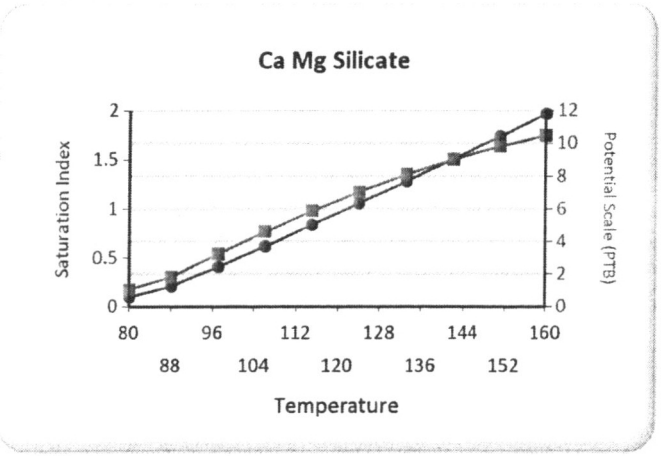
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

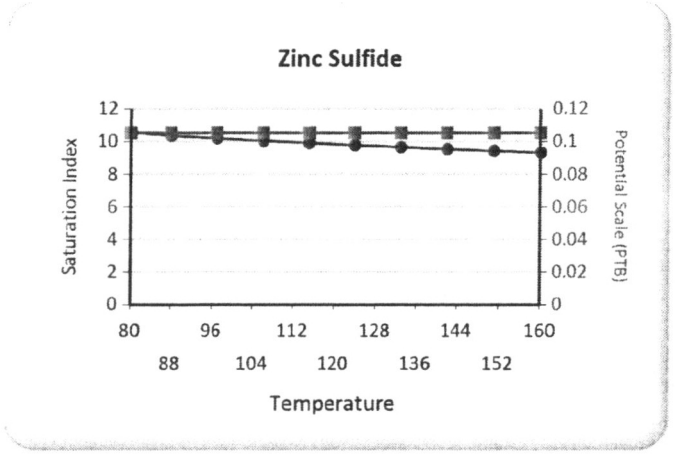


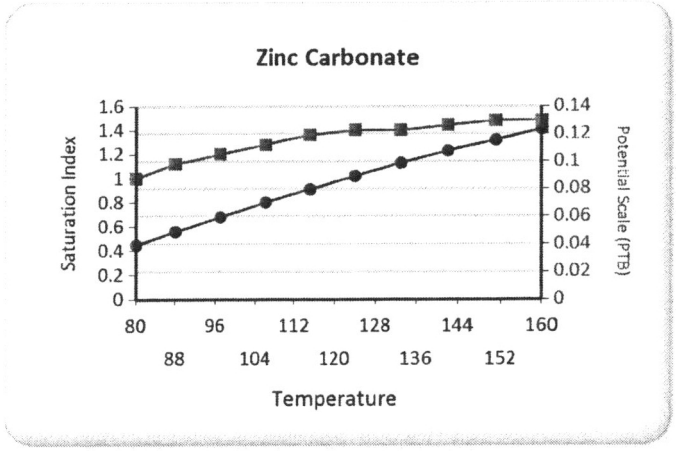


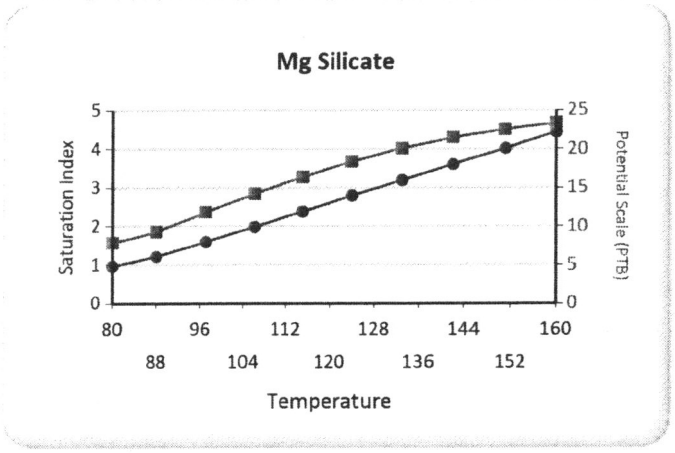


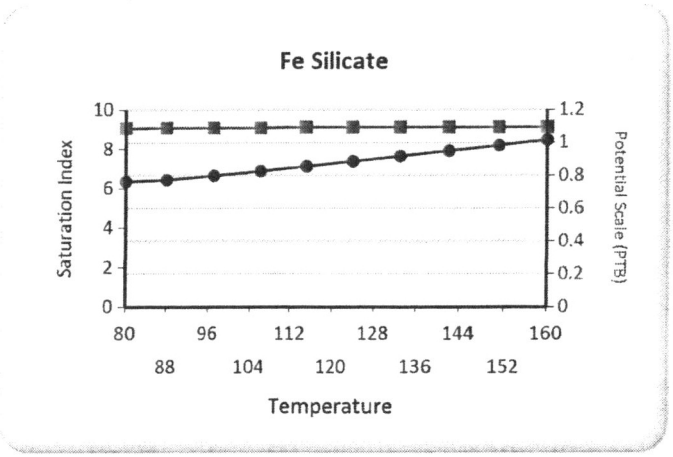







Zinc Carbonate
Saturation Index
Potential Scale (PTB)
Temperature
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
80
88
96
104
112
120
128
136
144
152
160


Mg Silicate
Saturation Index
Potential Scale (PTB)
Temperature
5
4
3
2
1
0
25
20
15
10
5
0
80
88
96
104
112
120
128
136
144
152
160


Fe Silicate
Saturation Index
Potential Scale (PTB)
Temperature
10
8
6
4
2
0
1.2
1
0.8
0.6
0.4
0.2
0
80
88
96
104
112
120
128
136
144
152
160

RECEIVED

NOV 24 2015

Office of Enforcement, Compliance
and Environmental Justice (UFO)

November 17, 2015

Gary Wang
Mail Code: 8ENF-UFO
US EPA Region 8
1595 Wyncoop Street
Denver, CO 80202-1129

RE: EPA AREA PERMIT NO. UT2736-04553
Mechanical Integrity Test
Standard Five year retesting for Ute Tribal 16-12

Mr. Breffle:
The enclose Mechanical Integrity Test was performed on the above referenced well on November 5, 2015. This MIT was performed because the well was due for the regular five year Mechanical Integrity Test.

If you need any more information please call at (435) 722-5302.

Sincerely,
Petroglyph Operating Co., Inc.

Rodrigo Jurado
Regulatory Compliance Specialist

Encl: MIT for the Ute Tribal 16-12

	GREEN	BLUE	CBI
TAB		2	

U2 Entered
Date 12/4/15
Initial DB

Mechanical Integrity Test
Tubing/Casing Annulus Pressure Test

U.S. Environmental Protection Agency
Underground Injection Control Program
1595 Wynkoop Street, Denver, CO 80202

EPA Witness: _____ Date: 11/15/15
Test conducted by: CHAD STEVENSON
Others present: _____

Well Name: 16-12 Type: ER SWD **Status: AC TA UC**
Field: ANTELOPE CREEK
Location: 16-12 Sec: ____ T ____ N / S R ____ E / W County: DUCHESNE State: UT
Operator: PETROGLYPH ENERGY
Last MIT: ____/____/____ **Maximum Allowable Pressure:** _____ **PSIG**

Regularly scheduled test? [X] Yes [ ] No
Initial test for permit? [ ] Yes [ ] No
Test after well rework? [ ] Yes [ ] No

Well injecting during test? If Yes, rate: 14 **bpd**
Pre-test annulus pressure: **psig**

MIT DATA TABLE	*Test #1*	*Test #2*	*Test #3*
TUBING		***PRESSURE RECORD***	
Initial Pressure	1810 psig	psig	psig
End of test pressure	1810 psig	psig	psig
CASING / TUBING ANNULUS		***PRESSURE RECORD***	
0 minutes	960 psig	psig	psig
5 minutes	960 psig	psig	psig
10 minutes	960 psig	psig	psig
15 minutes	960 psig	psig	psig
20 minutes	960 psig	psig	psig
25 minutes	960 psig	psig	psig
30 minutes	960 psig	psig	psig
4 Hours ~~minutes~~	960 psig	psig	psig
____ *minutes*	psig	psig	psig
RESULT	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail

Does the annulus pressure build back up after the test ? If Yes, _____ psig.

12 NOON
1
2
3 P.M.
4 P.M.
5 P.M.
6 P.M.
7 P.M.
8 P.M.
9 P.M.
10 P.M.
11 P.M.
12 NIGHT
1 A.M.
2 A.M.
3 A.M.
4 A.M.
5 A.M.
6 A.M.
7 A.M.
8 A.M.
9 A.M.
10 A.M.
11 A.M.
CALIBRATED CHARTS
BATAVIA, N.Y.
PRINTED IN U.S.A.
MW-HP 2000
N STOP
CAST 2:00 PM
PAT 960
CAST 9:30 AM
PAT 960
6-12
2:30 AM
11-5 #45
2:00 PM
11-5 #45

OMB No. 2040-0042 Approval Expires 12/31/2011

EPA

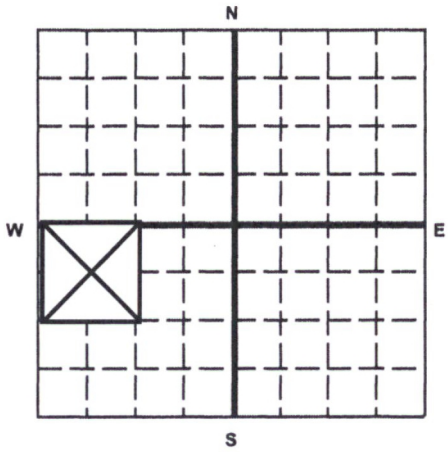
United States Environmental Protection Agency
Washington, DC 20460

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

Name and Address of Existing Permittee
Petroglyph Operating Company, Inc. 2258
P.O. Box 7608
Boise, Idaho 83709

Name and Address of Surface Owner
Ute Indian Tribe
P.O. Box 70
Ft. Duchesne, Utah 84026

Locate Well and Outline Unit on Section Plat - 640 Acres



State	County	Permit Number
Utah	Duchesne	UT2736-04553

Surface Location Description
____ 1/4 of ____ 1/4 of NW 1/4 of SW 1/4 of Section 16 Township 5S Range 3W

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface Location 1980 ft. frm (N/S) S Line of quarter section
and 660 ft. from (E/W) W Line of quarter section.

WELL ACTIVITY
- [ ] Brine Disposal
- [x] Enhanced Recovery
- [ ] Hydrocarbon Storage

TYPE OF PERMIT
- [ ] Individual
- [x] Area

Number of Wells 111

Lease Name Ute Indian Tribe Well Number UTE TRIBAL 16-12

		INJECTION PRESSURE		TOTAL VOLUME INJECTED		TUBING -- CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January	13	1820	1835	414		0	0
February	13	1833	1858	435		0	0
March	13	1823	1858	479		0	0
April	13	1842	1853	503		0	0
May	13	1831	1845	440		0	0
June	13	1809	1841	472		0	0
July	13	1816	1850	546		0	0
August	13	1836	1857	597		0	0
September	13	1826	1853	603		0	0
October	13	1833	1849	779		0	0
November	13	1843	1851	592		0	0
December	13	1822	1835	541		0	0

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title *(Please type or print)*	Signature	Date Signed
Chad Stevenson, Water Facilities Supervisor		2/11/2014

U2 Entered
Date 3/18/14
Initial DB

EPA Form 7520-11 (Rev. 12-08)

TAB	GREEN	BLUE	CBI
		2	

Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078

multi-chem®
A HALLIBURTON SERVICE

Units of Measurement: **Standard**

Water Analysis Report

Production Company: **PETROGLYPH ENERGY INC**
Well Name: **UTE TRIBAL 16-12 INJ**
Sample Point: **Wellhead**
Sample Date: **1/8/2014**
Sample ID: **WA-263379**

Sales Rep: **James Patry**
Lab Tech: **Gary Winegar**

Scaling potential predicted using ScaleSoftPitzer from Brine Chemistry Consortium (Rice University)

Sample Specifics	
Test Date:	1/15/2014
System Temperature 1 (°F):	180
System Pressure 1 (psig):	1300
System Temperature 2 (°F):	60
System Pressure 2 (psig):	15
Calculated Density (g/ml):	1.003
pH:	8.00
Calculated TDS (mg/L):	8526.36
CO2 in Gas (%):	
Dissolved CO_2 (mg/L)):	0.00
H_2S in Gas (%):	
H2S in Water (mg/L):	0.00

Analysis @ Properties in Sample Specifics			
Cations	*mg/L*	*Anions*	*mg/L*
Sodium (Na):	1698.00	Chloride (Cl):	5000.00
Potassium (K):	57.00	Sulfate (SO_4):	155.00
Magnesium (Mg):	36.00	Bicarbonate (HCO_3):	1464.00
Calcium (Ca):	81.00	Carbonate (CO_3):	
Strontium (Sr):	5.00	Acetic Acid (CH_3COO)	
Barium (Ba):	4.00	Propionic Acid (C_2H_5COO)	
Iron (Fe):	2.70	Butanoic Acid (C_3H_7COO)	
Zinc (Zn):	0.01	Isobutyric Acid ($(CH_3)_2CHCOO$)	
Lead (Pb):	0.00	Fluoride (F):	
Ammonia NH_3:		Bromine (Br):	
Manganese (Mn):	0.11	Silica (SiO_2):	23.54

Notes:
B=3.8 Al=.01 Li=.9

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
60.00	14.00	1.28	52.01	1.75	2.34	0.00	0.00	1.59	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73.00	157.00	1.28	51.31	1.60	2.32	0.00	0.00	1.64	1.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86.00	300.00	1.31	52.79	1.47	2.30	0.00	0.00	1.73	1.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	443.00	1.35	54.38	1.36	2.27	0.00	0.00	1.81	1.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113.00	585.00	1.40	56.03	1.26	2.25	0.00	0.00	1.89	1.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126.00	728.00	1.45	57.70	1.18	2.22	0.00	0.00	1.98	1.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	871.00	1.50	59.34	1.10	2.19	0.00	0.00	2.06	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153.00	1014.00	1.56	60.92	1.04	2.16	0.00	0.00	2.14	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166.00	1157.00	1.63	62.39	1.00	2.14	0.00	0.00	2.22	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	1300.00	1.70	63.75	0.96	2.11	0.00	0.00	2.30	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078

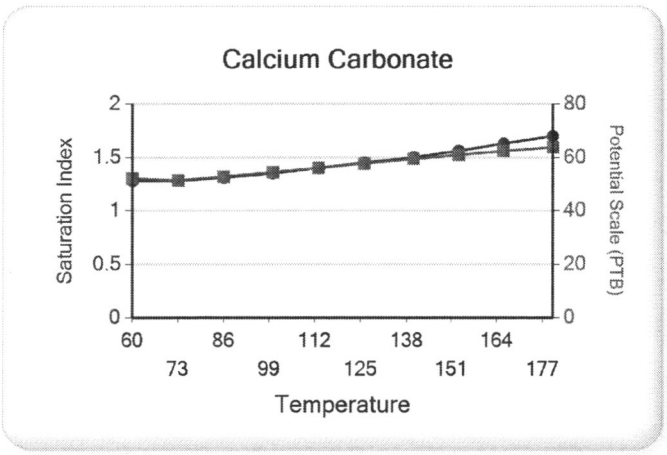
multi-chem®
A HALLIBURTON SERVICE

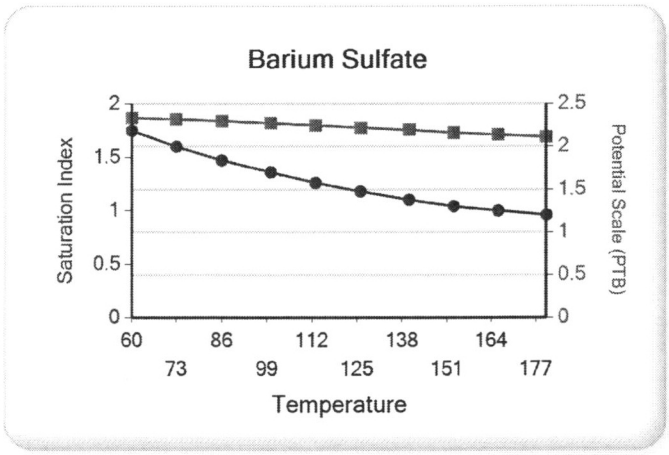
Water Analysis Report

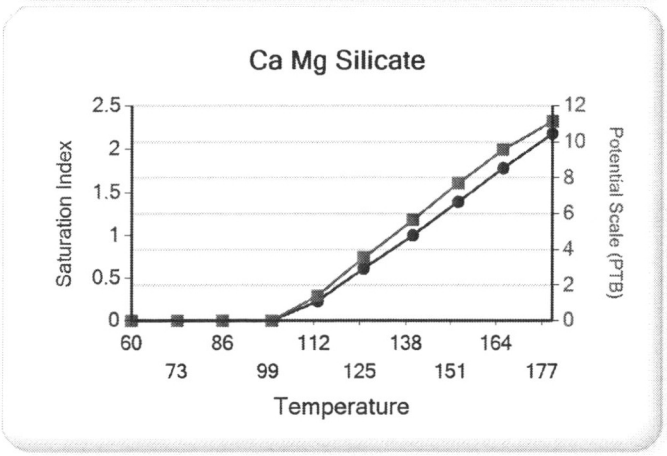
		Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
60.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.61	2.02
73.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.73	2.03
86.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.10	2.04
100.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	2.98	0.00	0.00	5.50	2.06
113.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	6.66	0.23	1.41	5.93	2.07
126.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87	10.57	0.61	3.53	6.39	2.08
140.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.55	14.59	1.00	5.66	6.86	2.09
153.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.23	18.52	1.39	7.71	7.34	2.09
166.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.91	22.04	1.78	9.57	7.83	2.09
180.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.59	24.80	2.18	11.15	8.32	2.10

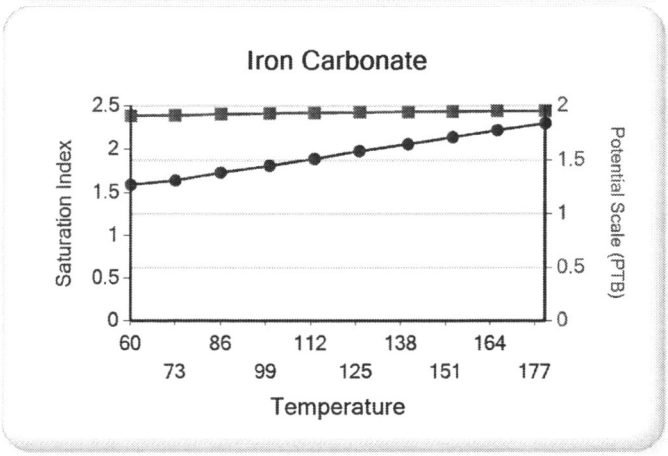
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Carbonate Fe Silicate

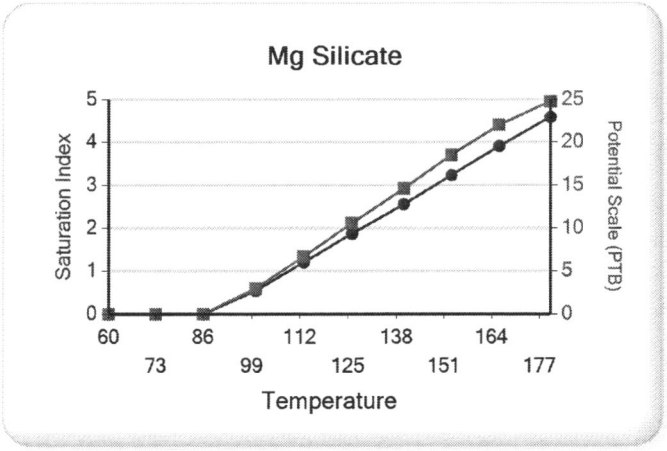
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

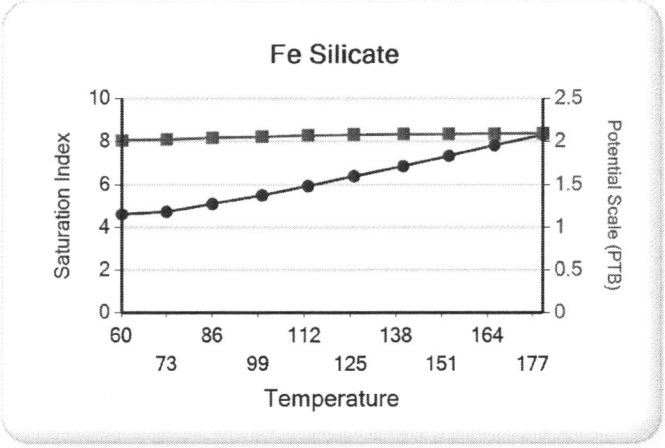









Mg Silicate
Saturation Index
Potential Scale (PTB)
Temperature
0
1
2
3
4
5
0
5
10
15
20
25
60
73
86
99
112
125
138
151
164
177


Fe Silicate
Saturation Index
Potential Scale (PTB)
Temperature
0
2
4
6
8
10
0
0.5
1
1.5
2
2.5
60
73
86
99
112
125
138
151
164
177

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466

JAN 25 2001

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Micheal Safford
Operations Coordinator
Petroglyph Operating Company, Inc.
P.O. Box 607
Roosevelt, UT 84066

Re: AUTHORIZATION TO COMMENCE INJECTION
Ute Tribal #16-12 (UT04553)
Antelope Creek Field
EPA AREA PERMIT UT2736-00000
Duchesne County, Utah

Dear Mr. Safford:

Thank you for submitting information pertaining to Ute Tribal #16-12 to the Environmental Protection Agency (EPA) Region VIII Ground Water Program. Requirements of UIC Area Permit UT2736-00000 Part II Sections (C)(2) "Prior To Commencing Injection" required submittal of the following information:

1. **Well Rework Record (*EPA Form 7520-12*) with after conversion well schematic**; and

2. the well has successfully completed and passed a Mechanical Integrity Test (MIT), with pressure chart demonstrating **Part I (internal) mechanical integrity**; and

3. a **pore pressure survey has been determined** of the injection zones.

The conversion plan for this production well has been reviewed, and found satisfactory. EPA analysis of the cement bond log (CBL) for this well identified a minimum interval of adequate cement above, within and below the confining zone (3962' to 4080'), pursuant to Region VIII Ground Water Section Guidance No. 34. Therefore, it is determinant that the annulus cement in the Ute Tribal #16-12 provides an effective barrier to upper movement of fluids through vertical channels adjacent to the wellbore.

Printed on Recycled Paper

UNITED STATES ENVIRONMENTAL P
REGION 8
999 18TH STREET - SUITE
DENVER, CO 80202-24

Scan under
UT 20736 - 04553
220 "Authorization to
Inject - Final"
1/25/2001

JAN 25 2001

Ref: 8P-W-GW

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Printed on Recycled Paper

All required information has been submitted, and has been reviewed and approved by the EPA. Petroglyph has complied with all pertinent conditions of UIC Area Permit UT2736-00000 Part II Section (C)(2). Therefore, effective upon your receipt of this letter, Administrative approval hereby is granted for injection into the Ute Tribal #16-12 under the conditions of UIC Area Permit UT2736-00000. The Director has determined that the **maximum surface injection pressure for the Ute Tribal #16-12 shall not exceed 1900 psig.** per Final Area Permit UT2736-00000, Part II, Section C.5.(b).

Please be reminded that it is the responsibility of the permittee to be aware of, and to comply with, all conditions of the Permit. Effective upon receipt of this letter, EPA administration of this well is transferred to Mr. Al Craver, Compliance Officer in the Office of Enforcement, Compliance, and Environmental Justice Technical Enforcement Program, who is your point of contact for routine compliance matters and reports.

Please send all reporting forms and other required correspondence to Mr. Craver at the address listed below, referencing **EPA WELL ID: UT04553** on all reports and correspondence.

Mr. Al Craver,
Technical Enforcement Program, Mail Code 8ENF-T
U.S. Environmental Protection Agency
999 18th Street, Suite 300
Denver, Colorado, USA, 80202-2466

If you have any questions concerning this authorization or the Permit, please contact Mr. Dan Jackson of my staff at 303.312.6155 or Mr. Craver at 303.312.7821.

Sincerely,

D. Edwin Hogle
Director
Ground Water Program

cc: Mr. Ronald McCook, Chairman
Uintah & Ouray Business Committee
Ute Indian Tribe

Ms. Elaine Willie, Environmental Director
Ute Indian Tribe

Mr. Norman Cambridge
BIA - Uintah & Ouray Agency

Mr. Gil Hunt
State of Utah Natural Resources
Division of Oil, Gas, and Mining

Mr. Jerry Kenczka
BLM - Vernal District Office

UTE TRIBAL #16-12 (UT2736-04553)

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.
1. ☐ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery (Extra charge)

1/25/01 CW 3921C & 3922C

JAN 26 2001

3. Article Addressed to:
Mr. Micheal Safford
Operations Coordinator
Petroglyph Operating Co., Inc.
P.O. BOX 607
Roosevelt, UT 84066

4. Article Number
Z 159 952 286

Type of Service:
☐ Registered ☐ Insured
XX Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Address
X

6. Signature — Agent
X

7. Date of Delivery

8. Addressee's Address (ONLY if requested and fee paid)

rec'd 26

FEB 2 2001

PS Form 3811, Mar. 1988 ★ U.S.G.P.O. 1988-212-865 DOMESTIC RETURN REC

Z 159 952 286

US Postal Service 1/25/01 CW 3921C& 3922C
Receipt for Certified Mail
No Insurance Coverage Provided
Do not use for International Mail (See reverse)

Sent to
Mr. Micheal Safford
Operations Coordinator
Petroglyph Operating Co., Inc
P.O. Box 607
Roosevelt, UT 84066

Certified Fee ORIGINAL GREEN CARD
Special Delivery Fee UTE TRIBAL #16-06
Restricted Delivery Fee (UT2736-04546)
Return Receipt Showing to Whom & Date Delivered (#3921C)
Return Receipt Showing to Whom, Date, & Addressee's Address
TOTAL Postage & Fees $
Postmark or Date

PS Form 3800, April 1995

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466

JAN 25 2001

CONCURRENCE COPY

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Micheal Safford
Operations Coordinator
Petroglyph Operating Company, Inc.
P.O. Box 607
Roosevelt, UT 84066

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CEW 1/24/01

8P-W-GW 1/24/01

1/25/01

mailed 1/25/01 26

Printed on Recycled Paper

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U.S. Environmental Protection Agency
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Director
Ground Water Program

cc: Mr. Ronald McCook, Chairman
Uintah & Ouray Business Committee
Ute Indian Tribe

Ms. Elaine Willie, Environmental Director
Ute Indian Tribe

Mr. Norman Cambridge
BIA - Uintah & Ouray Agency

Mr. Gil Hunt
State of Utah Natural Resources
Division of Oil, Gas, and Mining

Mr. Jerry Kenczka
BLM - Vernal District Office

UIC Permit Routing Slip

Date: 1/24/01

Action: AUTHORIZATION TO INJECT

	To:		Mailcode	Initials	Date
1.	Permit Writer Chuck Williams		8P-W-GW	CEW	1/24/01
2.	Technical Review	☒ DWJ ☐ PSO ☐ CT	8P-W-GW	DWJ	1/24/01
3.	L. Clutts	proof read	8P-W-GW	✓	1/25
4.	D. Hogle	**SIGNATURE**	8P-W-GW	DCH	1/25/01
5.	L. Clutts	date stamp & mail documents	8P-W-GW	LC	1/25/01
6.	Permit Writer CW LC	make copies	8P-W-GW	LC	1/25/01
7.	L. Clutts	mail copies	8P-W-GW	LC	1/25/01
8.	Permit Writer CW	File	8P-W-GW	CEW	2/13/01

Well Name: Ute Tribal #16-12 **Reservation:** U/O

UIC Permit Number: UT2736-04553 **Applicant:** Petroglyph

Contents of routing package for: AUTHORIZATION TO INJECT

LEFT SIDE

- **Concurrence copy** of Authorization
- **Reading File copy** of Authorization
- **Prior to Injection Requirements - Submitted Documentation**
- **FORM 3**
- **Mailing List**

RIGHT SIDE

- **Authorization To Inject *(Signature)***

COMMENTS

Permit Writer: CEWilliams