Inspection Report For Well: UT20736 - 04388

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: 12:06 am / pm

OPERATOR (only if different): _____

REPRESENTATIVE(S): Chad Stevenson

PRE-INSPECTION REVIEW

Petroglyph Operating Company, Inc

Well Name:	Ute Tribal 21-06		
Well Type:	Enhanced Recovery (2R)		
Operating Status:	AC (ACTIVE) as of 12/31/2002		
Oil Field:	Antelope Creek (Duchesne)		
Location:	SWNW S21 T5S R3W		
Indian Country:	X, Uintah and Ouray		
Last Inspection:	8/28/2012	***Allowable Inj Pressure:***	2183 /
Last MIT:	Pass 6/19/2012	***Annulus Pressure From Last MIT:***	1050

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 12/20/13
Initials DS

OBSERVED VALUES:

Tubing Gauge:	[x] Yes [ ] No	Pressure: U: 1865 / 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

GREEN	BLUE	CBI
	1	

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

UIC Entered
Date 12/17/13
Initial SR

Inspection Report For Well: UT20736 - 04388 (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: 12/16/13 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

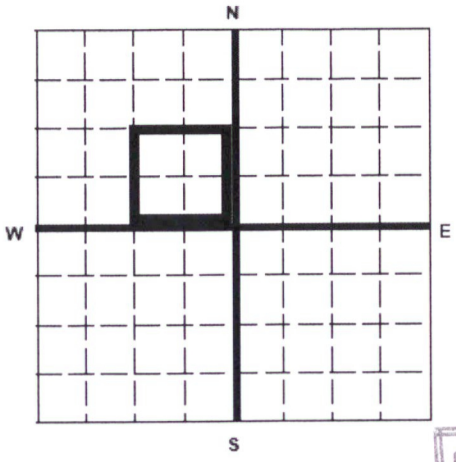
United States Environmental Protection Agency
Washington, DC 20460

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	UT2736-04388

Surface Location Description
___ 1/4 of ___ 1/4 of SE 1/4 of NW 1/4 of Section 21 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) N Line of quarter section
and 2128 ft. from (E/W) W Line of quarter section.

U2 Entered
Date 4/4/17
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 21-06

GREEN 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	1840	1871	1277		0	0
February	16	1893	1918	1377		0	0
March	16	1872	1881	1181		0	0
April	16	1859	1876	1047		0	0
May	16	1864	1879	1126		0	0
June	16	1858	1882	1066		0	0
July	16	1855	1867	1033		0	0
August	16	1851	1868	1085		0	0
September	16	1836	1856	976		0	0
October	16	1857	1864	1168		0	0
November	16	1803	1841	806		0	0
December	16	1806	1820	1034		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 21-06 INJ, DUCHESNE**	Lab Tech:	**Kaitlyn Natelli**
Sample Point:	**Well Head**		
Sample Date:	**1/6/2017**		
Sample ID:	**WA-345299**		

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

Sample Specifics

Test Date:	1/25/2017
System Temperature 1 (°F):	300
System Pressure 1 (psig):	2000
System Temperature 2 (°F):	130
System Pressure 2 (psig):	50
Calculated Density (g/ml):	1.0067
pH:	8.90
Calculated TDS (mg/L):	13480.39
CO2 in Gas (%):	
Dissolved CO_2 (mg/L)):	0.00
H_2S in Gas (%):	
H2S in Water (mg/L):	25.00
Tot. SuspendedSolids(mg/L):	
Corrosivity(LanglierSat.Indx)	0.00
Alkalinity:	

Analysis @ Properties in Sample Specifics

Cations	*mg/L*	*Anions*	*mg/L*
Sodium (Na):	4506.69	Chloride (Cl):	5500.00
Potassium (K):	31.49	Sulfate (SO_4):	70.00
Magnesium (Mg):	34.29	Bicarbonate (HCO_3):	3111.00
Calcium (Ca):	133.13	Carbonate (CO_3):	
Strontium (Sr):	6.71	Hydroxide(HO):	
Barium (Ba):	4.21	Acetic Acid (CH_3COO)	
Iron (Fe):	23.86	Propionic Acid (C_2H_5COO)	
Zinc (Zn):	5.91	Butanoic Acid (C_3H_7COO)	
Lead (Pb):	0.12	Isobutyric Acid ($(CH_3)_2CHCOO$)	
Ammonia NH_3:		Fluoride (F):	
Manganese (Mn):	0.74	Bromine (Br):	
Aluminum (Al):	5.54	Silica (SiO_2):	52.24
Lithium (Li):	3.16	Calcium Carbonate ($CaCO_3$):	
Boron (B):	6.21	Phosphates (PO_4):	9.41
Silicon (Si):	24.42	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	2.58	115.77	0.62	1.89	5.14	13.16	3.93	17.35	0.00	0.00	0.00	0.00	0.00	0.00	12.06	3.09
149.00	267.00	2.63	115.85	0.52	1.73	5.07	13.16	4.01	17.35	0.00	0.00	0.00	0.00	0.00	0.00	11.78	3.09
168.00	483.00	2.68	115.93	0.44	1.58	5.03	13.16	4.09	17.35	0.00	0.00	0.00	0.00	0.00	0.00	11.54	3.09
187.00	700.00	2.75	116.02	0.38	1.44	5.00	13.16	4.16	17.35	0.00	0.00	0.00	0.00	0.00	0.00	11.32	3.09
206.00	917.00	2.82	116.11	0.34	1.33	5.00	13.16	4.23	17.35	0.00	0.00	0.00	0.00	0.00	0.00	11.14	3.09
224.00	1133.00	2.90	116.18	0.31	1.24	5.02	13.16	4.29	17.35	0.00	0.00	0.00	0.00	0.00	0.00	10.97	3.09
243.00	1350.00	2.99	116.25	0.29	1.19	5.05	13.16	4.35	17.35	0.00	0.00	0.00	0.00	0.00	0.00	10.82	3.09
262.00	1567.00	3.09	116.31	0.28	1.16	5.09	13.16	4.41	17.35	0.00	0.00	0.00	0.00	0.00	0.00	10.69	3.09
281.00	1783.00	3.19	116.36	0.28	1.16	5.14	13.16	4.45	17.35	0.00	0.00	0.00	0.00	0.00	0.00	10.58	3.09
300.00	2000.00	3.29	116.39	0.28	1.18	5.21	13.16	4.49	17.35	0.00	0.00	0.00	0.00	0.00	0.00	10.47	3.09

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

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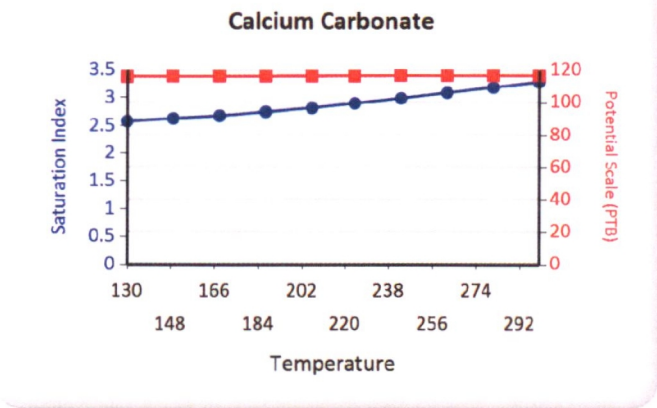
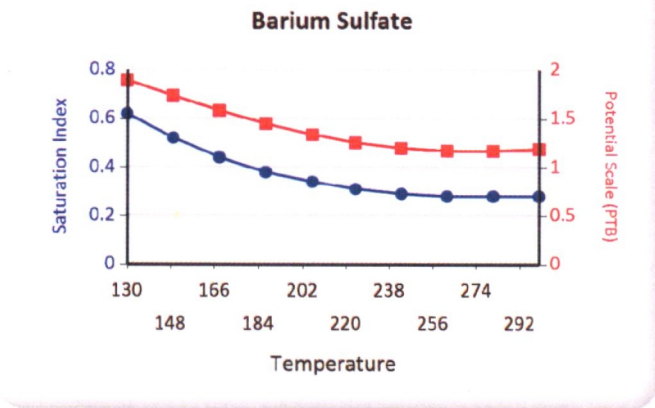
Water Analysis Report

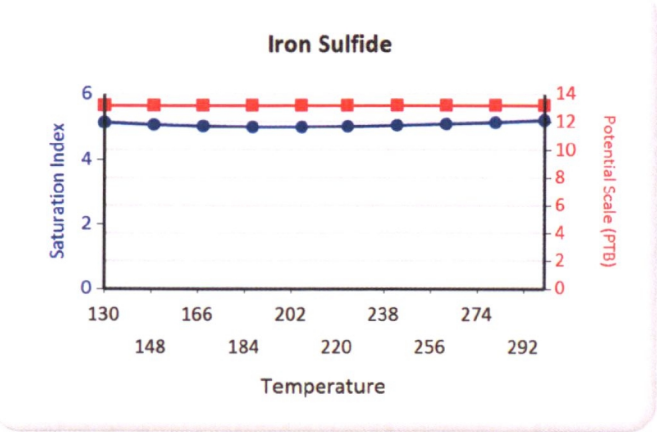
		Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
130.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	2.94	3.97	12.07	0.05	7.97	67.83	5.23	68.99	15.40	18.56
149.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	3.13	3.97	11.62	0.05	8.63	68.12	5.57	69.56	15.77	18.56
168.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00	3.31	3.97	11.22	0.05	9.29	68.29	5.92	69.96	16.17	18.56
187.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	3.46	3.97	10.86	0.05	9.94	68.39	6.27	70.21	16.57	18.56
206.00	917.00	0.00	0.00	0.00	0.00	0.00	0.00	3.60	3.97	10.54	0.05	10.58	68.44	6.62	70.36	16.98	18.56
224.00	1133.00	0.00	0.00	0.00	0.00	0.00	0.00	3.73	3.97	10.25	0.05	11.20	68.47	6.96	70.45	17.39	18.56
243.00	1350.00	0.00	0.00	0.00	0.00	0.00	0.00	3.83	3.97	9.99	0.05	11.81	68.49	7.30	70.51	17.80	18.56
262.00	1567.00	0.00	0.00	0.00	0.00	0.00	0.00	3.92	3.97	9.75	0.05	12.39	68.50	7.63	70.54	18.20	18.56
281.00	1783.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	3.97	9.54	0.05	12.95	68.51	7.95	70.56	18.59	18.56
300.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	4.05	3.97	9.35	0.05	13.48	68.51	8.26	70.57	18.97	18.56

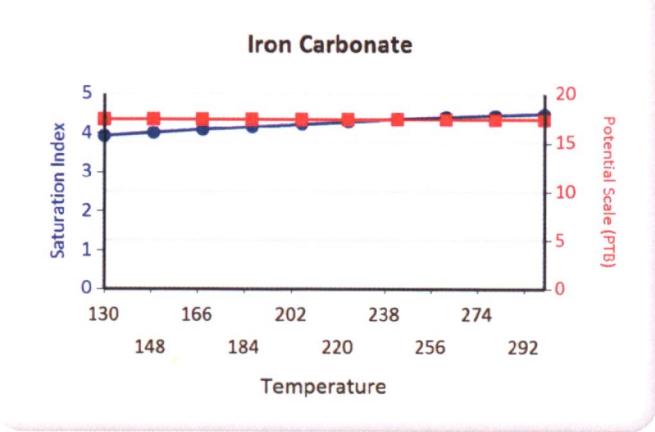
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

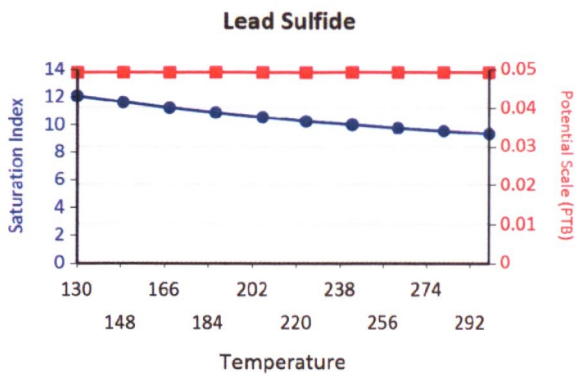
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

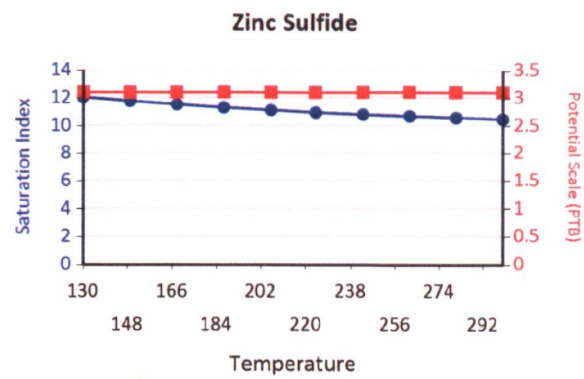


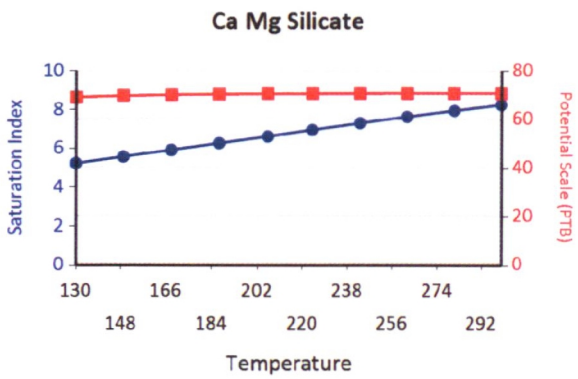


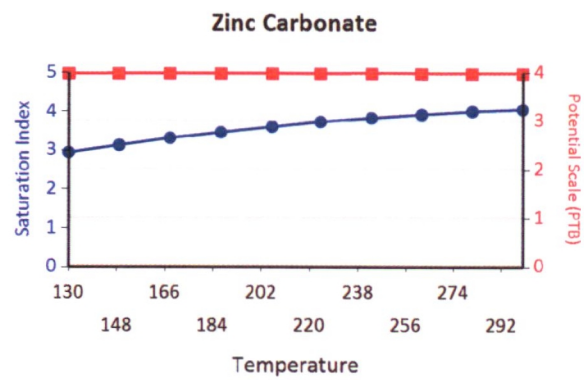


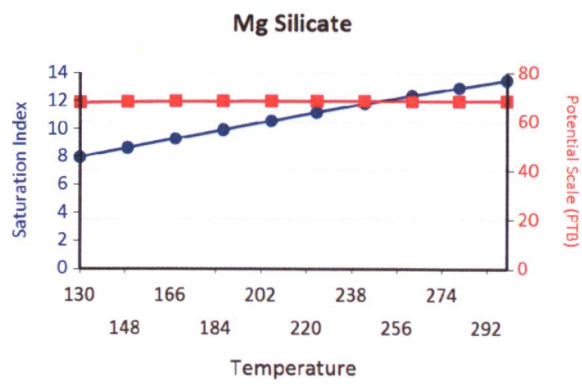


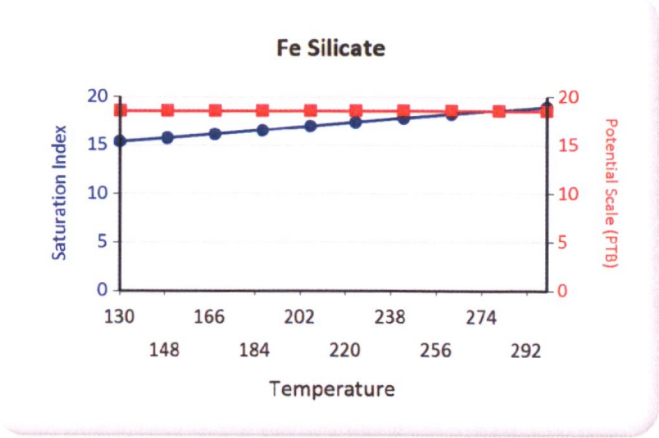

Lead Sulfide
Saturation Index
Potential Scale (PTB)
Temperature


Zinc Sulfide
Saturation Index
Potential Scale (PTB)
Temperature


Ca Mg Silicate
Saturation Index
Potential Scale (PTB)
Temperature


Zinc Carbonate
Saturation Index
Potential Scale (PTB)
Temperature


Mg Silicate
Saturation Index
Potential Scale (PTB)
Temperature


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

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

EPA

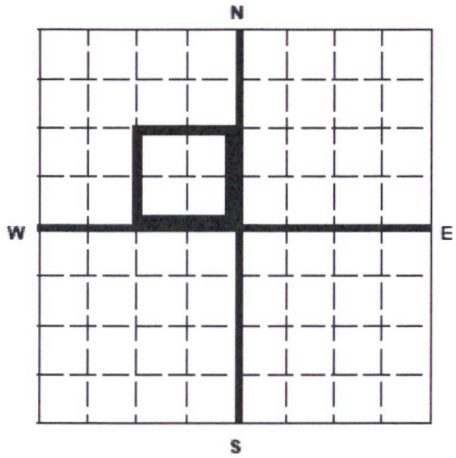
United States Environmental Protection Agency
Washington, DC 20460

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-~~04434~~ 04388

Surface Location Description
___ 1/4 of ___ 1/4 of SE 1/4 of NW 1/4 of Section 21 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) N Line of quarter section
and 2128 ft. from (E/W) W Line of quarter section.

U2 Entered
Date 3/2/16
Initial B

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 21-06

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	15	1768	1809	1242		0	0
February	15	1833	1860	1345		0	0
March	15	1855	1867	1613		0	0
April	15	1884	1935	1773		0	0
May	15	1922	1936	1994		0	0
June	15	1922	1942	1811		0	0
July	15	1901	1908	1601		0	0
August	15	1856	1872	1400		0	0
September	15	1837	1862	1218		0	0
October	15	1834	1834	1284		0	0
November	15	1840	1850	1294		0	0
December	15	1850	1860	1300		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		02/08/2016

GREEN BLUE CBI
TAB 2

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

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 21-06 INJ, DUCHESNE**	Lab Tech:	**Michele Pike**
Sample Point:	**Well Head**		
Sample Date:	**1/6/2016**		
Sample ID:	**WA-327630**		

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

Sample Specifics

Test Date:	1/14/2016
System Temperature 1 (°F):	60
System Pressure 1 (psig):	2000
System Temperature 2 (°F):	180
System Pressure 2 (psig):	50
Calculated Density (g/ml):	1.0008
pH:	6.80
Calculated TDS (mg/L):	5004.90
CO2 in Gas (%):	
Dissolved CO_2 (mg/L)):	40.00
H_2S in Gas (%):	
H2S in Water (mg/L):	0.00
Tot. SuspendedSolids(mg/L):	
Corrosivity(LanglierSat.Indx)	0.00
Alkalinity:	

Analysis @ Properties in Sample Specifics

Cations	*mg/L*	*Anions*	*mg/L*
Sodium (Na):	1451.75	Chloride (Cl):	2000.00
Potassium (K):	0.11	Sulfate (SO_4):	520.00
Magnesium (Mg):	83.14	Bicarbonate (HCO_3):	732.00
Calcium (Ca):	178.62	Carbonate (CO_3):	
Strontium (Sr):	4.99	Acetic Acid (CH_3COO)	
Barium (Ba):	0.21	Propionic Acid (C_2H_5COO)	
Iron (Fe):	5.09	Butanoic Acid (C_3H_7COO)	
Zinc (Zn):	0.98	Isobutyric Acid ($(CH_3)_2CHCOO$)	
Lead (Pb):	0.03	Fluoride (F):	
Ammonia NH_3:		Bromine (Br):	
Manganese (Mn):	0.02	Silica (SiO_2):	27.96
Aluminum (Al):	0.03	Calcium Carbonate ($CaCO_3$):	
Lithium (Li):	0.41	Phosphates (PO_4):	3.39
Boron (B):	0.67	Oxygen (O_2):	
Silicon (Si):	13.07		

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
180.00	50.00	0.69	62.23	0.25	0.06	0.00	0.00	1.28	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.00	267.00	0.53	48.18	0.27	0.06	0.00	0.00	1.09	3.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153.00	483.00	0.42	38.77	0.30	0.06	0.00	0.00	0.95	3.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	700.00	0.31	29.50	0.34	0.07	0.00	0.00	0.82	3.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.00	917.00	0.21	20.48	0.39	0.07	0.00	0.00	0.68	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113.00	1133.00	0.12	11.84	0.45	0.08	0.00	0.00	0.55	2.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	1350.00	0.04	3.69	0.53	0.09	0.00	0.00	0.42	2.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.00	1567.00	0.00	0.00	0.62	0.09	0.00	0.00	0.29	1.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73.00	1783.00	0.00	0.00	0.73	0.10	0.00	0.00	0.17	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.00	2000.00	0.00	0.00	0.86	0.11	0.00	0.00	0.05	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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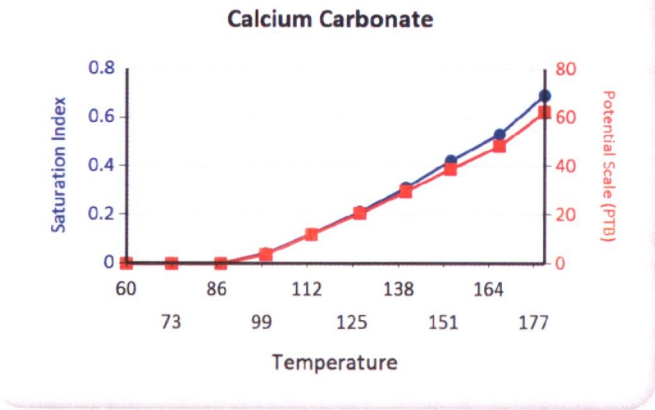
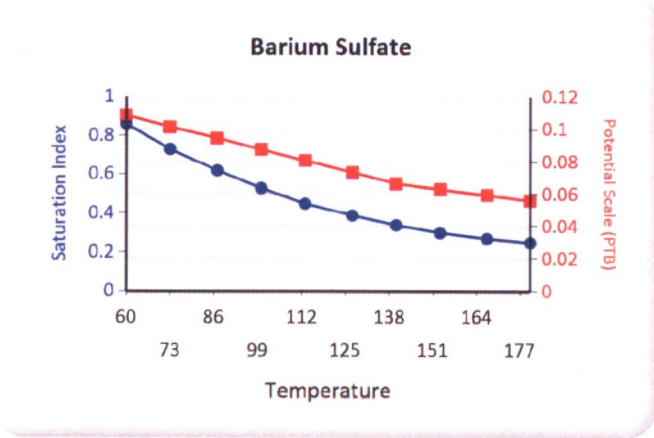
Water Analysis Report

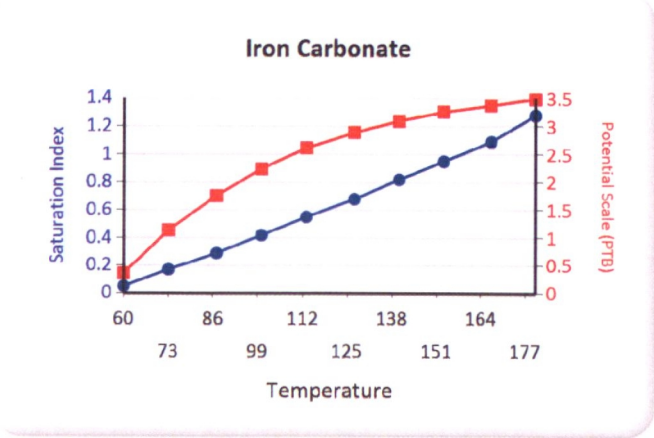
		Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
180.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.48	0.00	0.00	0.01	0.21	0.00	0.00	3.53	3.65
167.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.35	0.00	0.00	0.00	0.00	0.00	0.00	2.51	3.30
153.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.18	0.00	0.00	0.00	0.00	0.00	0.00	1.84	2.87
140.00	700.00	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	1.19	2.21
127.00	917.00	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	0.54	1.22
113.00	1133.00	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	0.00	0.00
100.00	1350.00	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	0.00	0.00
87.00	1567.00	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	0.00	0.00
73.00	1783.00	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	0.00	0.00
60.00	2000.00	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	0.00	0.00

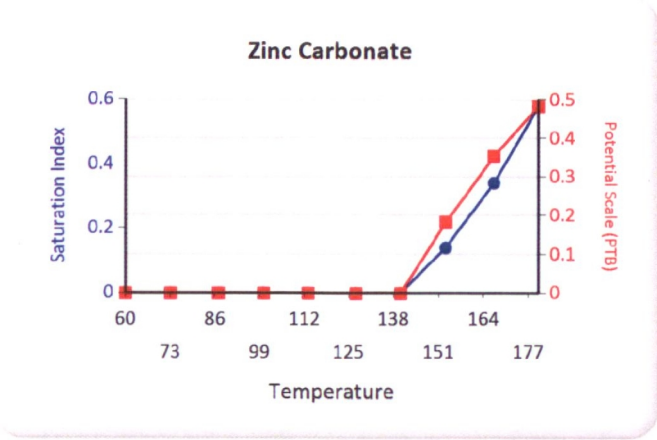
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Carbonate Zinc Carbonate Mg Silicate Fe Silicate

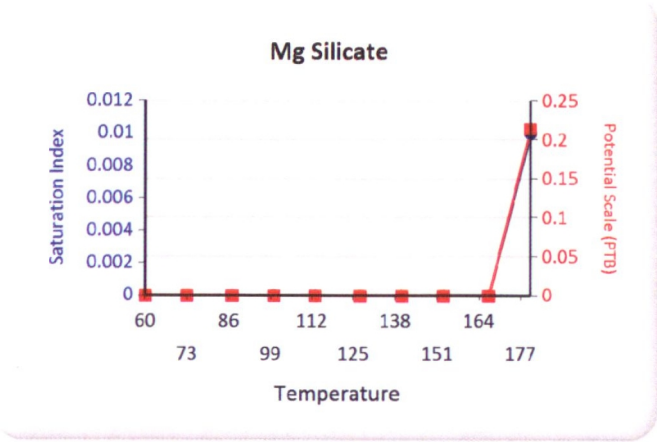
These scales have positive scaling potential under final temperature and pressure: Barium Sulfate Iron Carbonate

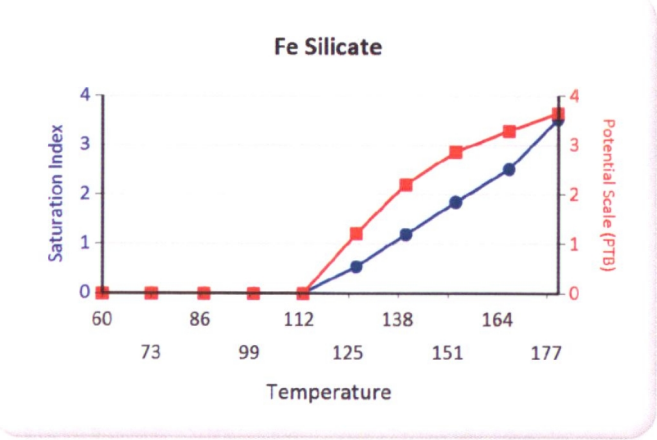







Zinc Carbonate
Saturation Index
Potential Scale (PTB)
0.6
0.4
0.2
0
0.5
0.4
0.3
0.2
0.1
0
60
86
112
138
164
73
99
125
151
177
Temperature


Mg Silicate
Saturation Index
Potential Scale (PTB)
0.012
0.01
0.008
0.006
0.004
0.002
0
0.25
0.2
0.15
0.1
0.05
0
60
86
112
138
164
73
99
125
151
177
Temperature


Fe Silicate
Saturation Index
Potential Scale (PTB)
4
3
2
1
0
4
3
2
1
0
60
86
112
138
164
73
99
125
151
177
Temperature

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

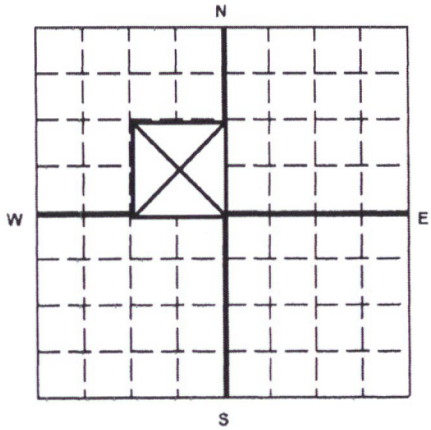
EPA

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	UT2736-04388

Surface Location Description

____ 1/4 of ____ 1/4 of SE 1/4 of NW 1/4 of Section 21 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) N Line of quarter section and 2128 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 21-06

		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	1815	1867	2048		0	0
February	14	1857	1869	1726		0	0
March	14	1862	1874	2021		0	0
April	14	1859	1876	1628		0	0
May	14	1836	1864	1473		0	0
June	14	1847	1865	1926		0	0
July	14	1838	1862	1679		0	0
August	14	1869	1876	1842		0	0
September	14	1768	1874	1482		0	0
October	14	1862	1862	1657		0	0
November	14	1873	1878	1605		0	0
December	14	1861	1875	1786		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		2/10/2015

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

U2 Entered
Date 3/31/15
Initial BW

	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 21-06 INJ, DUCHESNE**	Lab Tech:	**Gary Winegar**
Sample Point:	**WELLHEAD**		
Sample Date:	**1/7/2015**		
Sample ID:	**WA-297475**		

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):	1.0041
pH:	8.50
Calculated TDS (mg/L):	10698.05
CO2 in Gas (%):	
Dissolved CO_2 (mg/L)):	0.00
H_2S in Gas (%):	
H2S in Water (mg/L):	35.00

Analysis @ Properties in Sample Specifics			
Cations	*mg/L*	*Anions*	*mg/L*
Sodium (Na):	2641.65	Chloride (Cl):	5000.00
Potassium (K):	56.13	Sulfate (SO_4):	250.00
Magnesium (Mg):	10.13	Bicarbonate (HCO_3):	2684.00
Calcium (Ca):	17.94	Carbonate (CO_3):	
Strontium (Sr):	5.38	Acetic Acid (CH_3COO)	
Barium (Ba):	13.06	Propionic Acid (C_2H_5COO)	
Iron (Fe):	0.43	Butanoic Acid (C_3H_7COO)	
Zinc (Zn):	0.41	Isobutyric Acid ($(CH_3)_2CHCOO$)	
Lead (Pb):	0.10	Fluoride (F):	
Ammonia NH_3:		Bromine (Br):	
Manganese (Mn):	0.05	Silica (SiO_2):	18.77

Notes:
B=8.2 Al=.01 Li=1.43

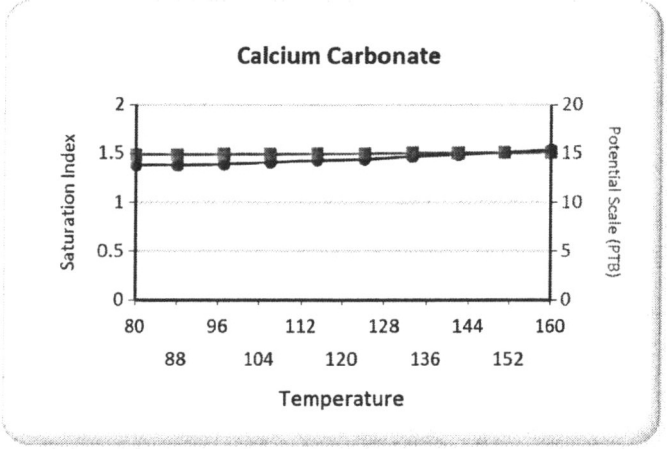
(PTB = Pounds per Thousand Barrels)

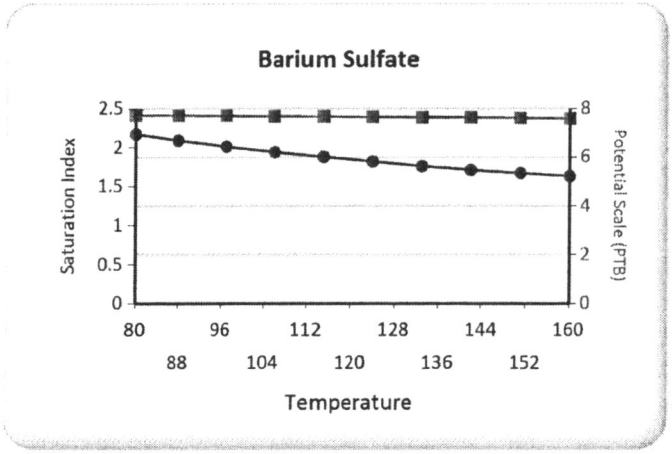
		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
80.00	14.00	1.38	14.88	2.17	7.73	3.59	0.24	1.68	0.30	0.00	0.00	0.00	0.00	0.00	0.00	11.60	0.21
88.00	157.00	1.38	14.88	2.09	7.71	3.51	0.24	1.72	0.30	0.00	0.00	0.00	0.00	0.00	0.00	11.41	0.21
97.00	300.00	1.39	14.91	2.01	7.70	3.44	0.24	1.76	0.31	0.00	0.00	0.00	0.00	0.00	0.00	11.25	0.21
106.00	443.00	1.41	14.94	1.94	7.69	3.39	0.24	1.80	0.31	0.00	0.00	0.00	0.00	0.00	0.00	11.09	0.21
115.00	585.00	1.43	14.97	1.88	7.67	3.34	0.24	1.84	0.31	0.00	0.00	0.00	0.00	0.00	0.00	10.95	0.21
124.00	728.00	1.44	15.00	1.82	7.65	3.31	0.24	1.89	0.31	0.00	0.00	0.00	0.00	0.00	0.00	10.81	0.21
133.00	871.00	1.47	15.04	1.76	7.64	3.27	0.24	1.93	0.31	0.00	0.00	0.00	0.00	0.00	0.00	10.68	0.21
142.00	1014.00	1.49	15.07	1.71	7.62	3.25	0.24	1.97	0.31	0.00	0.00	0.00	0.00	0.00	0.00	10.56	0.21
151.00	1157.00	1.51	15.11	1.67	7.61	3.23	0.24	2.01	0.31	0.00	0.00	0.00	0.00	0.00	0.00	10.45	0.21
160.00	1300.00	1.54	15.15	1.63	7.59	3.22	0.24	2.04	0.31	0.00	0.00	0.00	0.00	0.00	0.00	10.34	0.21

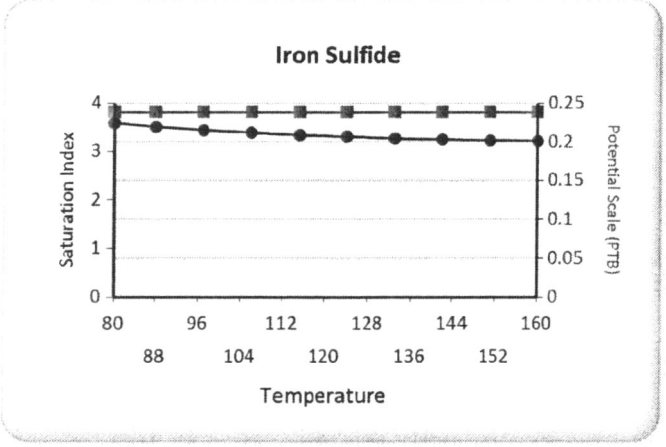
		Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
80.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.24	13.26	0.04	0.87	5.52	0.03	0.65	5.68	0.33
88.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	0.25	12.96	0.04	1.17	6.99	0.17	1.62	5.81	0.33
97.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	0.25	12.69	0.04	1.53	8.68	0.36	2.81	6.00	0.33
106.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	1.19	0.26	12.43	0.04	1.89	10.25	0.55	3.95	6.21	0.33
115.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.26	12.19	0.04	2.27	11.68	0.75	5.03	6.43	0.33
124.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	0.27	11.96	0.04	2.64	12.97	0.95	6.02	6.65	0.33
133.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51	0.27	11.75	0.04	3.02	14.12	1.16	6.93	6.89	0.33
142.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	0.27	11.54	0.04	3.40	15.14	1.36	7.75	7.13	0.33
151.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	1.69	0.27	11.35	0.04	3.78	16.03	1.57	8.47	7.37	0.33
160.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	1.78	0.27	11.17	0.04	4.17	16.80	1.79	9.10	7.62	0.33

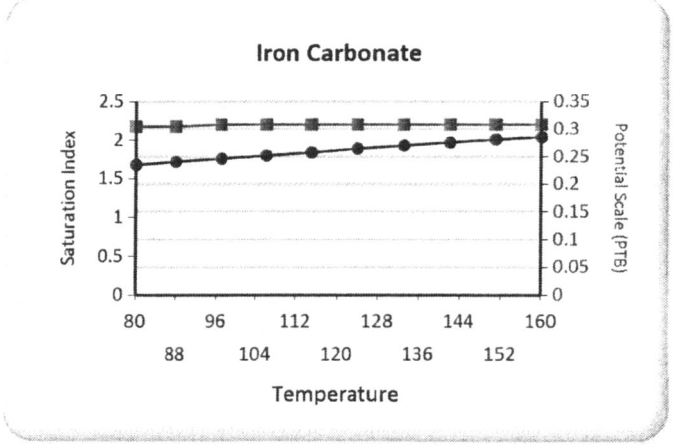
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

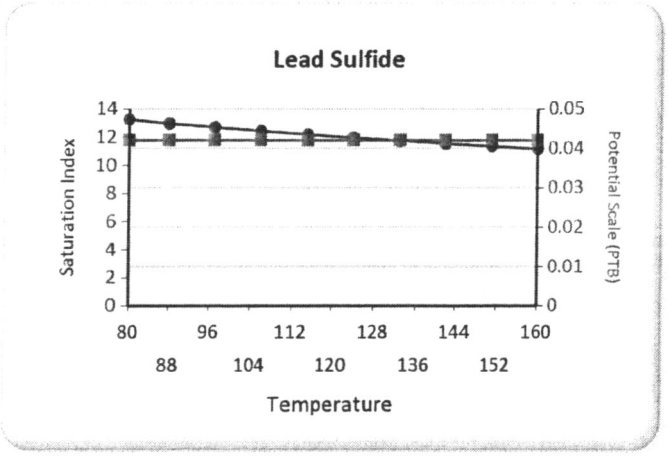
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

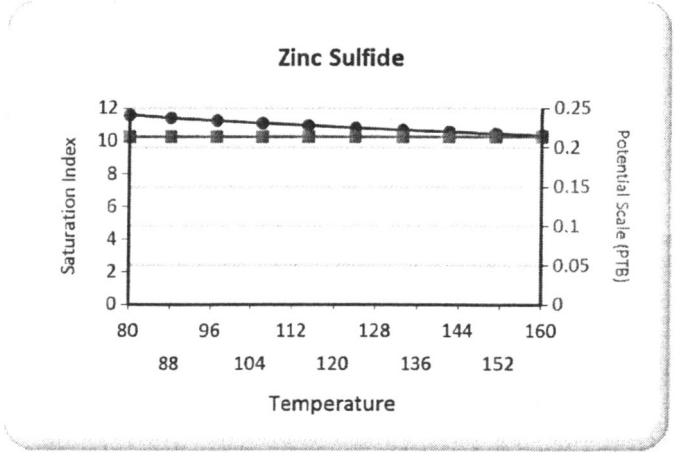


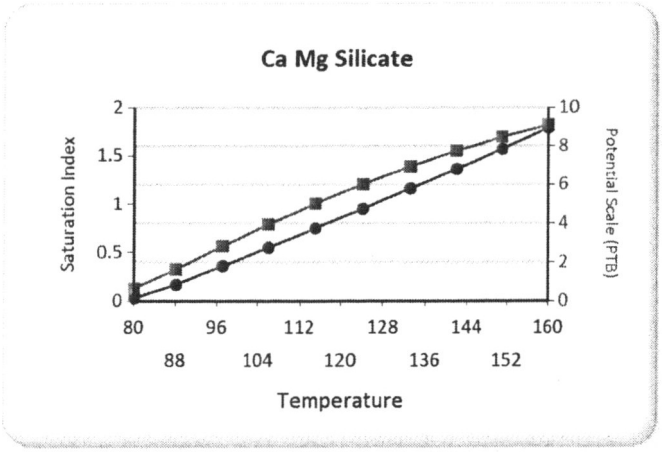


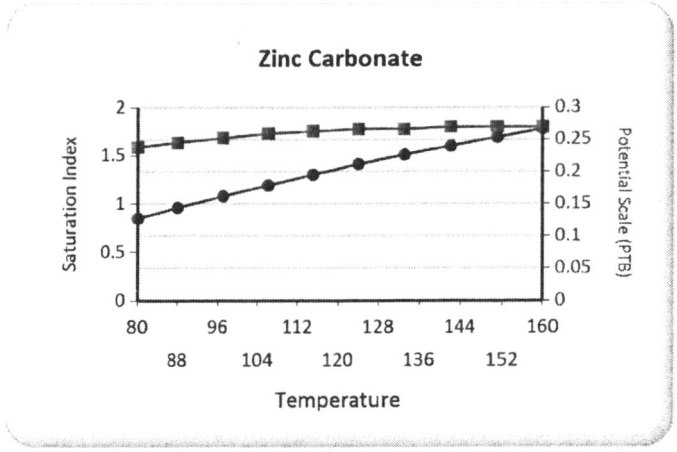


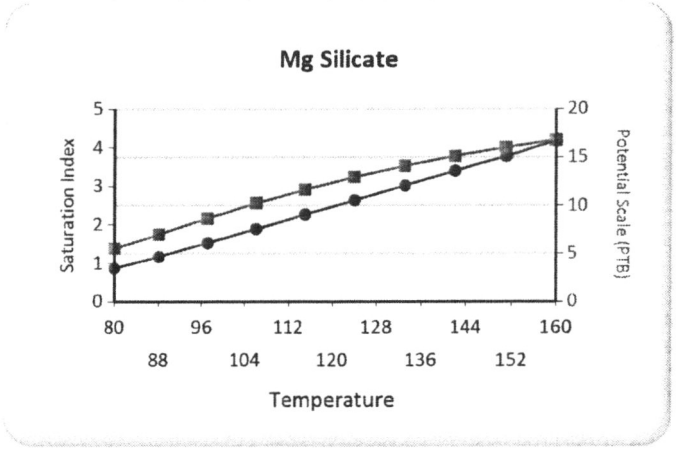


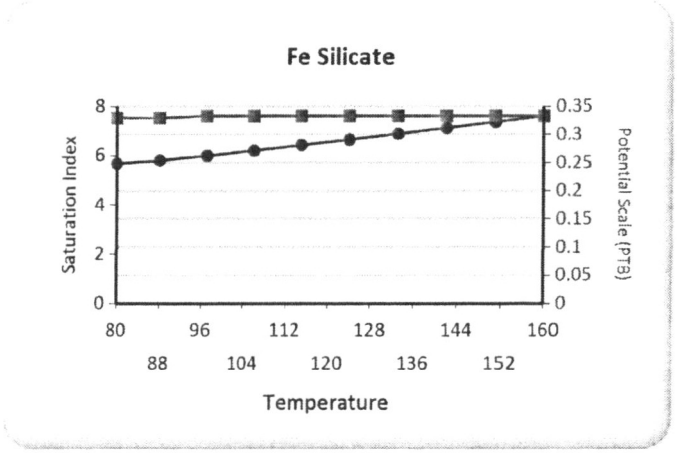





Ca Mg Silicate
Saturation Index
Potential Scale (PTB)
Temperature
0
0.5
1
1.5
2
0
2
4
6
8
10
80
88
96
104
112
120
128
136
144
152
160


Zinc Carbonate
Saturation Index
Potential Scale (PTB)
Temperature
0
0.5
1
1.5
2
0
0.05
0.1
0.15
0.2
0.25
0.3
80
88
96
104
112
120
128
136
144
152
160


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


Fe Silicate
Saturation Index
Potential Scale (PTB)
Temperature
0
2
4
6
8
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
80
88
96
104
112
120
128
136
144
152
160

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

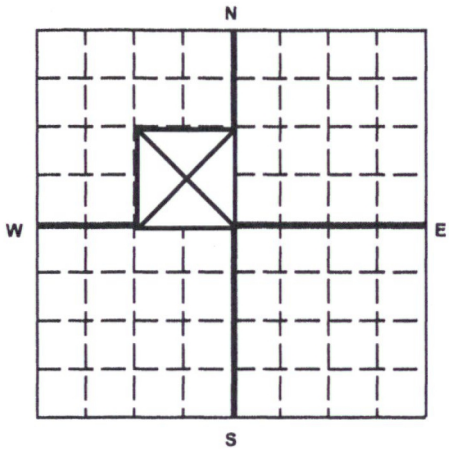
United States Environmental Protection Agency
Washington, DC 20460

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	UT2736-04388

Surface Location Description
___ 1/4 of ___ 1/4 of SE 1/4 of NW 1/4 of Section 21 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) N Line of quarter section
and 2128 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 21-06

		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	1672	1692	1086		0	0
February	13	1774	1863	1590		0	0
March	13	1819	1852	1942		0	0
April	13	1856	1860	2342		0	0
May	13	1801	1879	1827		0	0
June	13	1746	1775	1707		0	0
July	13	1779	1814	2226		0	0
August	13	1828	1843	2443		0	0
September	13	1860	1876	2839		0	0
October	13	1823	1855	2493		0	0
November	13	1846	1869	2268		0	0
December	13	1853	1871	1842		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

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

GREEN	BLUE	CBI
	✓	

U2 Entered
Date 3/20/14
Initial JJ

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 21-06 INJ**
Sample Point: **Wellhead**
Sample Date: **1/8/2014**
Sample ID: **WA-263030**

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):	0.999
pH:	7.50
Calculated TDS (mg/L):	2826.90
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):	716.71	Chloride (Cl):	1000.00
Potassium (K):	1.90	Sulfate (SO_4):	380.00
Magnesium (Mg):	66.00	Bicarbonate (HCO_3):	488.00
Calcium (Ca):	145.00	Carbonate (CO_3):	
Strontium (Sr):	3.70	Acetic Acid (CH_3COO)	
Barium (Ba):	0.30	Propionic Acid (C_2H_5COO)	
Iron (Fe):	3.30	Butanoic Acid (C_3H_7COO)	
Zinc (Zn):	0.39	Isobutyric Acid ($(CH_3)_2CHCOO$)	
Lead (Pb):	0.04	Fluoride (F):	
Ammonia NH_3:		Bromine (Br):	
Manganese (Mn):	0.16	Silica (SiO_2):	21.40

Notes:
B=.5 Al=0 Li=.05

(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	0.59	23.07	1.27	0.17	0.00	0.00	0.66	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73.00	157.00	0.57	22.13	1.13	0.16	0.00	0.00	0.70	1.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86.00	300.00	0.62	24.44	1.00	0.16	0.00	0.00	0.80	1.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	443.00	0.68	27.10	0.88	0.15	0.00	0.00	0.90	2.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113.00	585.00	0.74	30.08	0.79	0.15	0.00	0.00	1.01	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126.00	728.00	0.81	33.36	0.71	0.14	0.00	0.00	1.11	2.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	871.00	0.88	36.90	0.64	0.14	0.00	0.00	1.21	2.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153.00	1014.00	0.95	40.69	0.58	0.13	0.00	0.00	1.31	2.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166.00	1157.00	1.03	44.69	0.54	0.13	0.00	0.00	1.41	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	1300.00	1.12	48.86	0.50	0.12	0.00	0.00	1.51	2.32	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

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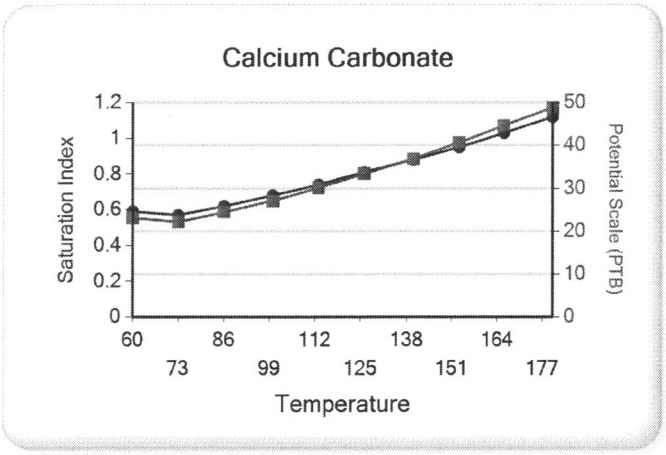
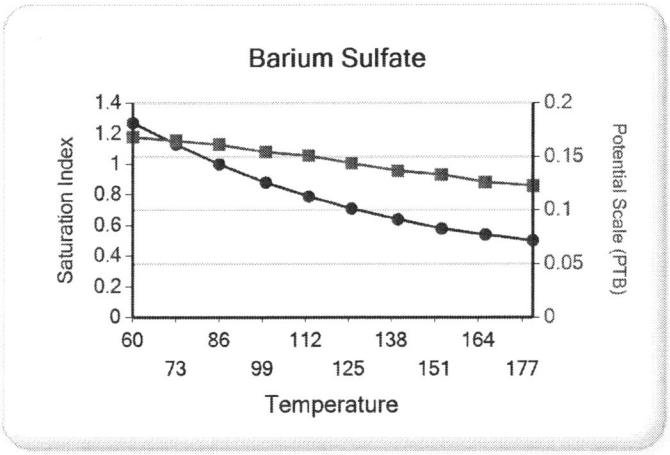
Water Analysis Report

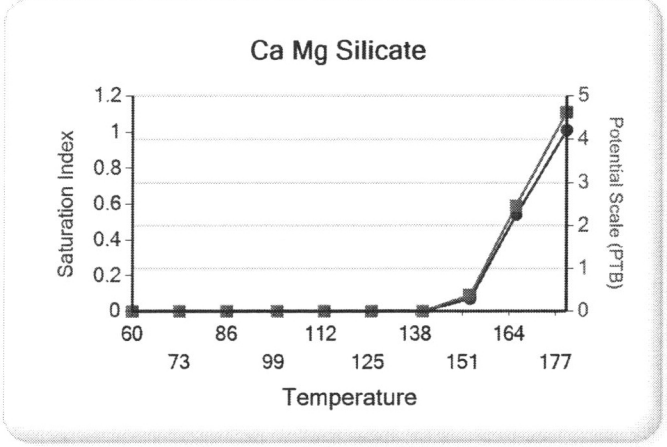
		Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
60.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.39	1.40
73.00	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	1.43	1.43
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	1.89	1.72
100.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.39	1.97
113.00	585.00	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	2.93	2.16
126.00	728.00	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	3.48	2.29
140.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.08	0.00	0.00	0.60	2.66	0.00	0.00	4.06	2.39
153.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.14	0.00	0.00	1.39	6.52	0.07	0.38	4.65	2.45
166.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.18	0.00	0.00	2.19	10.72	0.54	2.46	5.25	2.50
180.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.21	0.00	0.00	2.98	14.99	1.01	4.63	5.85	2.52

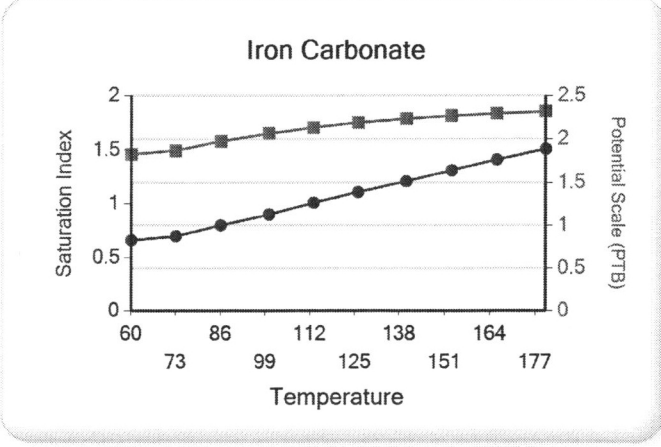
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Carbonate Fe Silicate

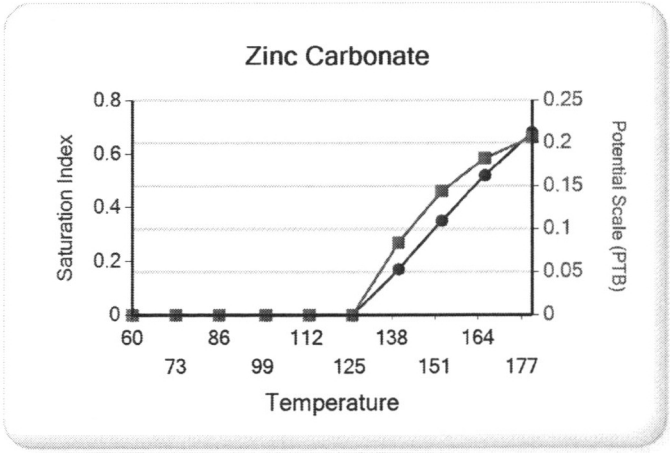
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Carbonate Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

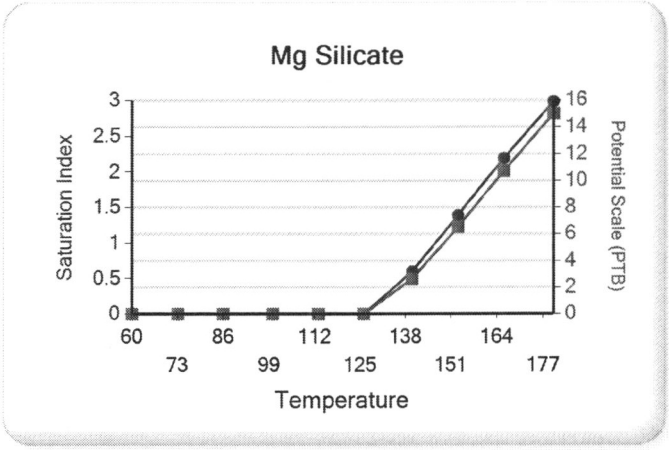


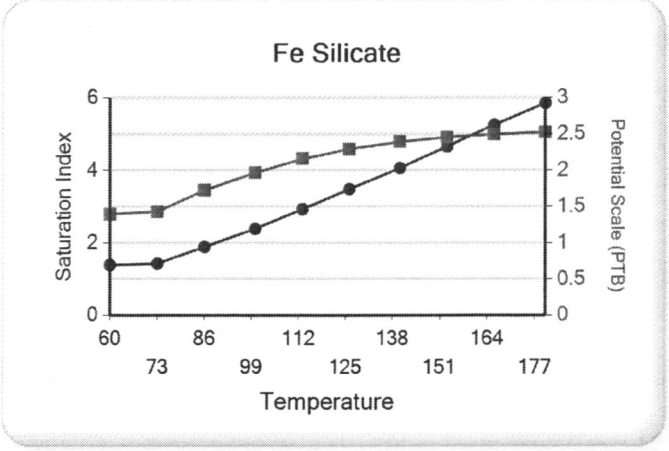







Zinc Carbonate
Saturation Index
Potential Scale (PTB)
Temperature
0.8
0.6
0.4
0.2
0
0.25
0.2
0.15
0.1
0.05
0
60
73
86
99
112
125
138
151
164
177


Mg Silicate
Saturation Index
Potential Scale (PTB)
Temperature
3
2.5
2
1.5
1
0.5
0
16
14
12
10
8
6
4
2
0
60
73
86
99
112
125
138
151
164
177


Fe Silicate
Saturation Index
Potential Scale (PTB)
Temperature
6
4
2
0
3
2.5
2
1.5
1
0.5
0
60
73
86
99
112
125
138
151
164
177

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

Ref: 8P2-W-GW

SEP 10 1997

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Kathy Turner
Geology/Petroleum Engineering Technician
Petroglyph Operating Company, Inc.
P. O. Box 1839
Hutchinson, KS 67504-1839

RE: UNDERGROUND INJECTION CONTROL (UIC)
Authorization to Inject
Ute Tribal #21-06 (UT04388)
Antelope Creek Waterflood
EPA Area Permit No. UT2736-00000
Duchesne County, Utah

Dear Ms. Turner:

Thank you for the recently submitted information pertaining to the above-referenced area permit and well. The Well Rework Record, injection zone fluid pore pressure survey, fracture treatment reports showing average ISIP of 2183 psi, and the successfully run mechanical integrity test, with chart, on the Ute Tribal #21-06 (UT2736-04388) have been reviewed and approved. Petroglyph Operating Company, Inc., has complied with all of the pertinent permit conditions (Part II, Section C. 2.) for the Antelope Creek Waterflood Area Permit.

Pleased be advised that administrative approval has been granted for injection of Class II fluids into the above referenced well for enhanced recovery of oil and gas. Please also be aware of the monitoring, recordkeeping and reporting requirements described in Part II, Section D of the permit and that the current **maximum surface injection pressure (Pmax) is limited to 2183 psig**, as modified by UIC Minor Permit Modification dated August 8, 1997.

Upon receipt of this letter, the Compliance Officer, Mr. John Carson will then take over routine matters involving well operations, future correspondence, forms, and reports. Please direct all correspondence to the attention of Mr. Carson at the above letterhead **(MAIL CODE ENF-T)** or contact Mr. Carson at (303) 312-6203. Thank you for your continued cooperation.

Sincerely,

D. Edwin Hogle
Director, Groundwater Program
Office of Pollution Prevention
State and Tribal Assistance

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VIII
999 18th STREET - SUITE 500
DENVER, COLORADO 80202-2466

Scan under
UT20736 - 04388
Authorization to
Inject & Final

SEP 10 1997

ED

neering Technician
ompany, Inc.

1839

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Office of Pollution Prevention
State and Tribal Assistance

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cc: Mr. Ronald Wopsock, 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

9/10/97 CW 3112C

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SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write *"Return Receipt Requested"* on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

SEP 11 1997

I also wish to receive the following services (for an extra fee):
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2. ☐ Restricted Delivery

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3. Article Addressed to:
Ms. Kathy Turner
Geology/Petroleum Engineering Technician
Petroglyph Operating Company, Inc.
P.O. Box 1839
Hutchinson, KS 67504-1839

4a. Article Number
P 164 014 343

4b. Service Type
☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
SEP 15 1997

5. Received By: *(Print Name)*
Gail Dennis

6. Signature: *(Addressee or Agent)*
X Gail Dennis

8. Addressee's Address *(Only if requested and fee is paid)*
SEP 18 1997

PS Form **3811**, December 1994 Domestic Return Receipt

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9/10/97 CW 3112C
P 164 014 343

#21-06

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail *(See reverse)*

Sent to Ms. Kathy Turner Geology/Petroleum Engineering Technician	
Street & Number	
Post Office, State, & ZIP Code Petroglyph Operating Company, Inc. P.O. Box 1839 Hutchinson, KS 67504-1839	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date	

PS Form **3800**, April 1995

CONCURRENCE COPY

SEP 10 1997

Ref: 8P2-W-GW

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CEW 8P2-W-GW 9/5/97

8P2-W-GW 9/5/97

Hogle 8P2-W-GW 9/9/97

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State of Utah Natural Resources
Division of Oil, Gas, and Mining

Mr. Jerry Kenczka
BLM - Vernal District Office

FCD: September 5, 1997, Chuck W., F:\DATA\WP\PETROGLF\AUT-IN21.06