Inspection Report For Well: UT20736 - 04202

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~~ 12/11/2013

Others: Ajayi, Christopher — Time: 10:03 (am) / pm

OPERATOR (only if different): _____

REPRESENTATIVE(S): Chad Stevinson

PRE-INSPECTION REVIEW

Petroglyph Operating Company, Inc

Well Name:	Ute Tribal 18-02 (old 4-18)		
Well Type:	Enhanced Recovery (2R)		
Operating Status:	AC (ACTIVE) as of 12/31/2002		
Oil Field:	Antelope Creek (Duchesne)		
Location:	NWNE S18 T5S R3W		
Indian Country:	X, Uintah and Ouray		
Last Inspection:	8/29/2012	***Allowable Inj Pressure:***	1900 /
Last MIT:	Pass 7/16/2012	***Annulus Pressure From Last MIT:***	1870

BLACK = POSSIBLE VIOLATION GREY = DATA MISSING

INSPECTION TYPE: (Select One)

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

TCIS Entered
Date 12/31/13
Initials DB

OBSERVED VALUES:

Tubing Gauge:	[x] Yes / [ ] No	Pressure: U: 1588 / L: ____ psig Gauge Range: Scada psig	Gauge Owner:	[ ] EPA / [x] Operator
Annulus Gauge:	[x] Yes / [ ] No	Pressure: 0 psig Gauge Range: open 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

U2 Entered
Date 12/17/13
Initial SR

GREEN TAB | BLUE | CB
1

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

Inspection Report For Well: UT20736 - 04202 (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: Petrochych 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

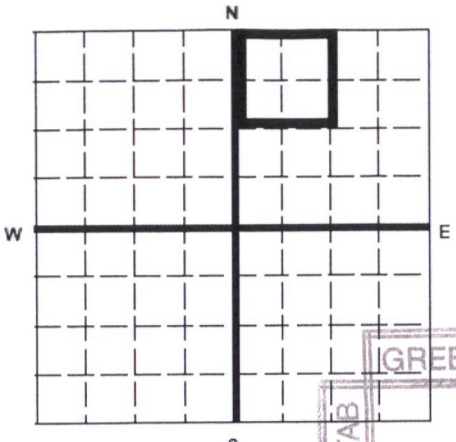
United States Environmental Protection Agency
Washington, DC 20460

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	UT2736-04202

Surface Location Description
___ 1/4 of ___ 1/4 of NW 1/4 of NE 1/4 of Section 18 Township 5S Range 3W

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

Surface Location 812 ft. frm (N/S) N Line of quarter section
and 1768 ft. from (E/W) E 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 18-02

U2 Entered
Date 4/4/17
Initial JB

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	1751	1776	3414		0	0
February	16	1773	1775	3132		0	0
March	16	1771	1774	3142		0	0
April	16	1744	1782	2842		0	0
May	16	1740	1771	3042		0	0
June	16	1676	1779	2642		0	0
July	16	1723	1740	2958		0	0
August	16	1742	1780	3100		0	0
September	16	1746	1759	2983		0	0
October	16	1781	1794	3350		0	0
November	16	1778	1801	3073		0	0
December	16	1774	1798	3053		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 18-02 INJ, DUCHESNE**	Lab Tech:	**Kaitlyn Natelli**
Sample Point:	**Well Head**		
Sample Date:	**1/6/2017**		
Sample ID:	**WA-345376**		

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):	1.0024
pH:	8.40
Calculated TDS (mg/L):	7454.63
CO2 in Gas (%):	
Dissolved CO_2 (mg/L)):	0.00
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):	2505.97	Chloride (Cl):	3000.00
Potassium (K):	19.02	Sulfate (SO_4):	50.00
Magnesium (Mg):	17.65	Bicarbonate (HCO_3):	1756.00
Calcium (Ca):	34.60	Carbonate (CO_3):	
Strontium (Sr):	3.34	Hydroxide(HO):	
Barium (Ba):	4.21	Acetic Acid (CH_3COO)	
Iron (Fe):	41.70	Propionic Acid (C_2H_5COO)	
Zinc (Zn):	4.11	Butanoic Acid (C_3H_7COO)	
Lead (Pb):	0.19	Isobutyric Acid ($(CH_3)_2CHCOO$)	
Ammonia NH_3:		Fluoride (F):	
Manganese (Mn):	0.32	Bromine (Br):	
Aluminum (Al):	0.06	Silica (SiO_2):	17.52
Lithium (Li):	2.79	Calcium Carbonate ($CaCO_3$):	
Boron (B):	3.77	Phosphates (PO_4):	12.57
Silicon (Si):	8.19	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	1.48	28.03	0.73	2.02	4.62	9.06	3.66	30.31	0.00	0.00	0.00	0.00	0.00	0.00	11.17	2.15
149.00	267.00	1.54	28.32	0.64	1.90	4.56	9.06	3.75	30.31	0.00	0.00	0.00	0.00	0.00	0.00	10.91	2.15
168.00	483.00	1.61	28.68	0.56	1.79	4.54	9.06	3.85	30.31	0.00	0.00	0.00	0.00	0.00	0.00	10.69	2.15
187.00	700.00	1.70	29.01	0.51	1.70	4.54	9.06	3.94	30.31	0.00	0.00	0.00	0.00	0.00	0.00	10.49	2.15
206.00	917.00	1.79	29.29	0.47	1.62	4.56	9.06	4.03	30.32	0.00	0.00	0.00	0.00	0.00	0.00	10.33	2.15
224.00	1133.00	1.89	29.53	0.44	1.57	4.60	9.06	4.12	30.32	0.00	0.00	0.00	0.00	0.00	0.00	10.18	2.15
243.00	1350.00	2.00	29.72	0.43	1.54	4.65	9.06	4.20	30.32	0.00	0.00	0.00	0.00	0.00	0.00	10.06	2.15
262.00	1567.00	2.11	29.87	0.43	1.54	4.71	9.06	4.27	30.32	0.00	0.00	0.00	0.00	0.00	0.00	9.95	2.15
281.00	1783.00	2.23	29.98	0.44	1.56	4.79	9.06	4.34	30.32	0.00	0.00	0.00	0.00	0.00	0.00	9.85	2.15
300.00	2000.00	2.35	30.06	0.45	1.59	4.88	9.06	4.40	30.32	0.00	0.00	0.00	0.00	0.00	0.00	9.77	2.15

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Vernal, UT 84078

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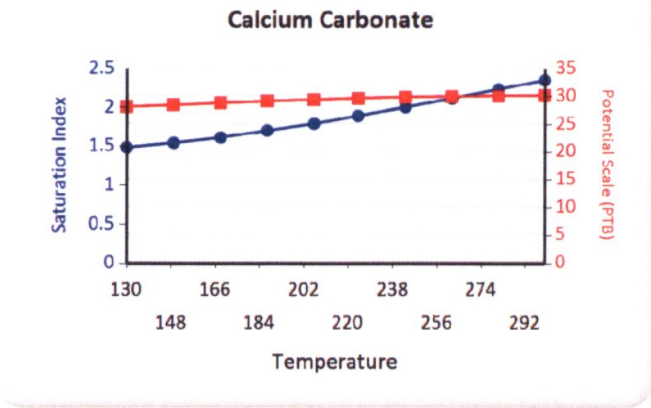
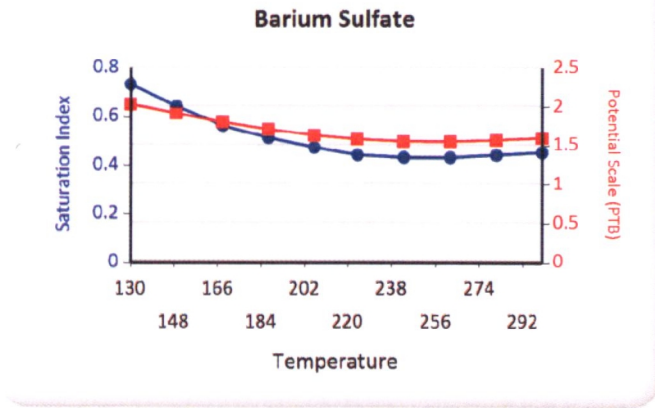
Water Analysis Report

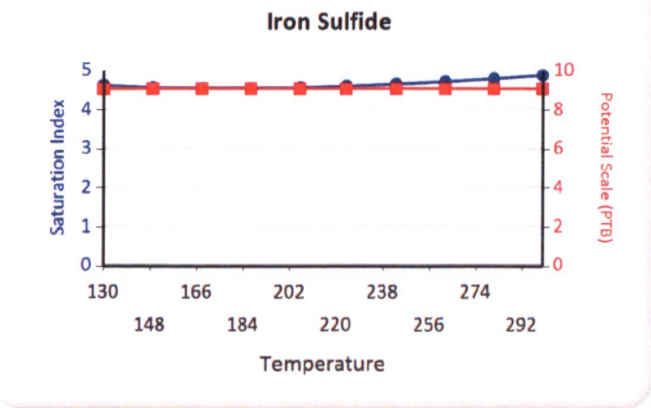
		Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
130.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	2.30	2.75	11.54	0.08	3.65	20.40	1.80	12.29	12.72	32.34
149.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	2.51	2.75	11.11	0.08	4.38	23.67	2.20	14.50	13.17	32.37
168.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00	2.70	2.76	10.72	0.08	5.16	27.10	2.63	16.94	13.68	32.40
187.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	2.88	2.76	10.39	0.08	5.93	29.96	3.06	19.07	14.21	32.41
206.00	917.00	0.00	0.00	0.00	0.00	0.00	0.00	3.04	2.76	10.09	0.08	6.68	32.08	3.50	20.76	14.75	32.42
224.00	1133.00	0.00	0.00	0.00	0.00	0.00	0.00	3.18	2.76	9.82	0.08	7.42	33.49	3.93	21.95	15.28	32.42
243.00	1350.00	0.00	0.00	0.00	0.00	0.00	0.00	3.31	2.76	9.58	0.08	8.15	34.33	4.35	22.70	15.82	32.43
262.00	1567.00	0.00	0.00	0.00	0.00	0.00	0.00	3.42	2.76	9.37	0.08	8.84	34.79	4.76	23.14	16.34	32.43
281.00	1783.00	0.00	0.00	0.00	0.00	0.00	0.00	3.51	2.76	9.18	0.08	9.51	35.02	5.15	23.38	16.85	32.43
300.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	3.59	2.76	9.01	0.08	10.15	35.14	5.53	23.51	17.34	32.43

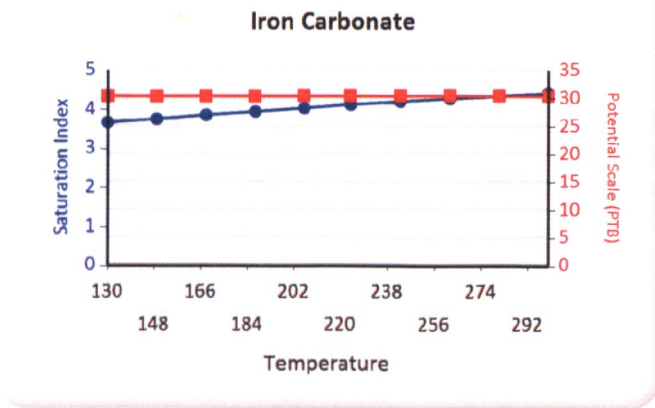
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

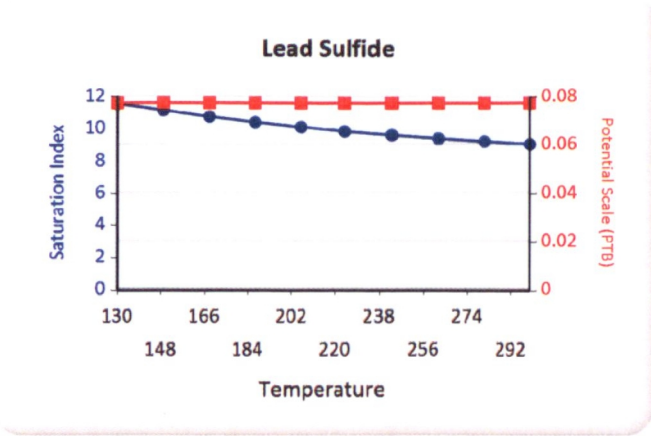
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

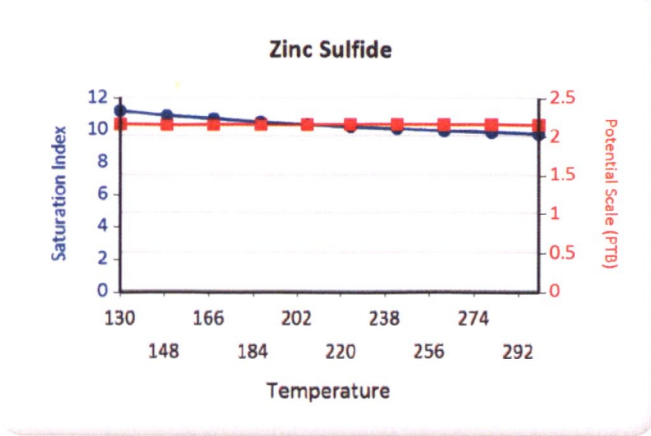


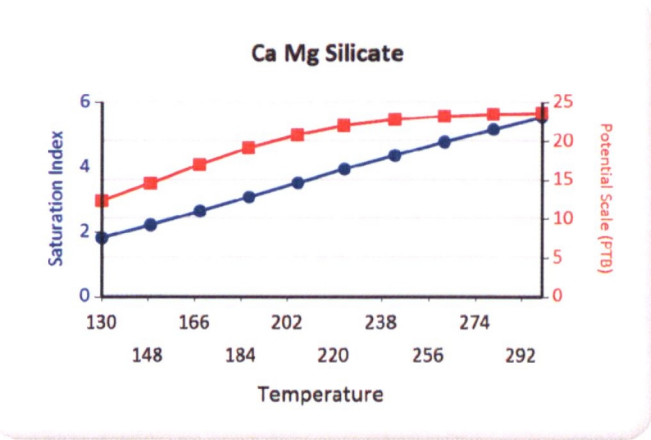







Lead Sulfide
Saturation Index
Potential Scale (PTB)
Temperature
130 148 166 184 202 220 238 256 274 292


Zinc Sulfide
Saturation Index
Potential Scale (PTB)
Temperature
130 148 166 184 202 220 238 256 274 292


Ca Mg Silicate
Saturation Index
Potential Scale (PTB)
Temperature
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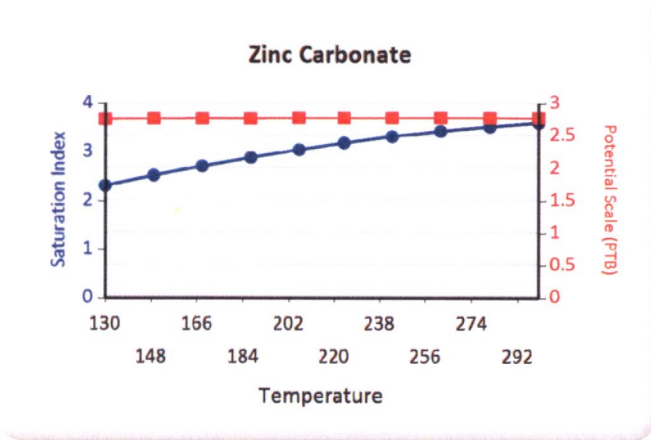
Zinc Carbonate
Saturation Index
Potential Scale (PTB)
Temperature
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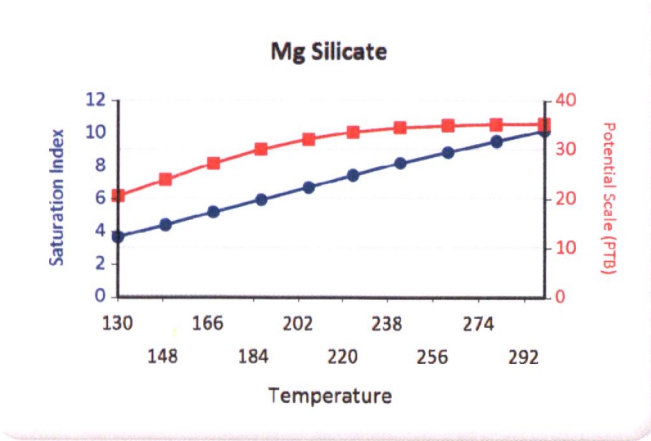
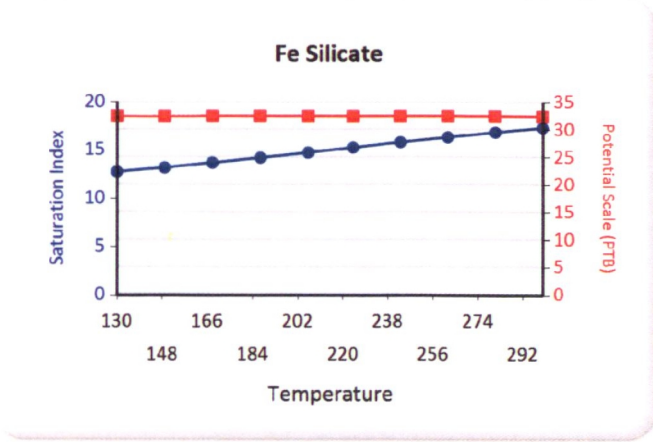

Mg Silicate
Saturation Index
Potential Scale (PTB)
Temperature
130 148 166 184 202 220 238 256 274 292


Fe Silicate
Saturation Index
Potential Scale (PTB)
Temperature
20
15
10
5
0
35
30
25
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

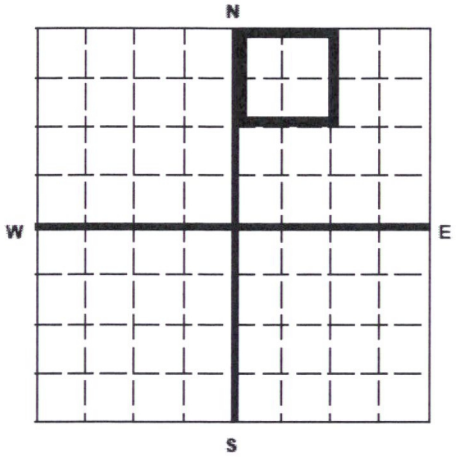
United States Environmental Protection Agency
Washington, DC 20460

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~~ 04202

Surface Location Description
___ 1/4 of ___ 1/4 of NW 1/4 of NE 1/4 of Section 18 Township 5S Range 3W

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

Surface Location 812 ft. frm (N/S) N Line of quarter section
and 1768 ft. from (E/W) E Line of quarter section.

U2 Entered
Date 3/1/16
Initial JB

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 18-02

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	1672	1750	4279		0	0
February	15	1720	1753	3633		0	0
March	15	1772	1800	4973		0	0
April	15	1775	1792	4389		0	0
May	15	1794	1812	4313		0	0
June	15	1788	1803	3869		0	0
July	15	1775	1791	3708		0	0
August	15	1757	1778	3601		0	0
September	15	1743	1785	3393		0	0
October	15	1779	1792	3839		0	0
November	15	1784	1797	3685		0	0
December	15	1684	1767	2904		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

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

TAB GREEN BLUE ODP 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 18-02 INJ, DUCHESNE**	Lab Tech:	**Michele Pike**
Sample Point:	**Well Head**		
Sample Date:	**1/6/2016**		
Sample ID:	**WA-327560**		

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):	1.0032
pH:	6.80
Calculated TDS (mg/L):	8386.46
CO2 in Gas (%):	
Dissolved CO_2 (mg/L)):	60.00
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):	2713.79	Chloride (Cl):	4000.00
Potassium (K):	0.89	Sulfate (SO_4):	580.00
Magnesium (Mg):	93.44	Bicarbonate (HCO_3):	732.00
Calcium (Ca):	204.42	Carbonate (CO_3):	
Strontium (Sr):	5.71	Acetic Acid (CH_3COO)	
Barium (Ba):	0.02	Propionic Acid (C_2H_5COO)	
Iron (Fe):	21.64	Butanoic Acid (C_3H_7COO)	
Zinc (Zn):	0.79	Isobutyric Acid ($(CH_3)_2CHCOO$)	
Lead (Pb):	0.67	Fluoride (F):	
Ammonia NH_3:		Bromine (Br):	
Manganese (Mn):	0.15	Silica (SiO_2):	32.94
Aluminum (Al):	0.06	Calcium Carbonate ($CaCO_3$):	
Lithium (Li):	0.54	Phosphates (PO_4):	3.03
Boron (B):	0.63	Oxygen (O_2):	
Silicon (Si):	15.40		

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	0.68	62.60	0.00	0.00	0.00	0.00	1.79	15.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.00	267.00	0.51	47.84	0.00	0.00	0.00	0.00	1.60	15.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153.00	483.00	0.40	38.15	0.00	0.00	0.00	0.00	1.47	15.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	700.00	0.30	28.66	0.00	0.00	0.00	0.00	1.34	14.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.00	917.00	0.20	19.50	0.00	0.00	0.00	0.00	1.21	14.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113.00	1133.00	0.11	10.77	0.00	0.00	0.00	0.00	1.08	14.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	1350.00	0.03	2.57	0.00	0.00	0.00	0.00	0.95	13.58	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	0.83	12.89	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	0.71	12.01	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	0.59	10.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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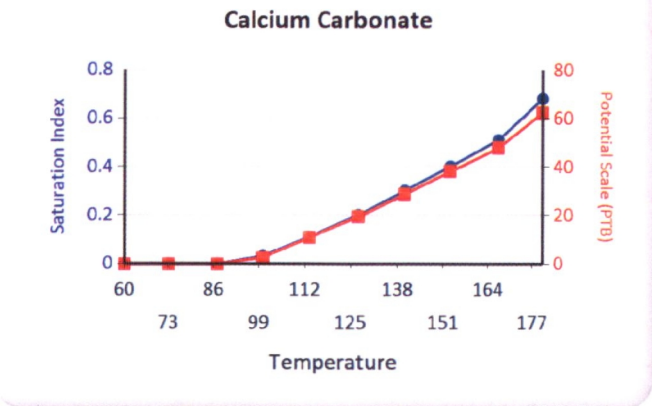
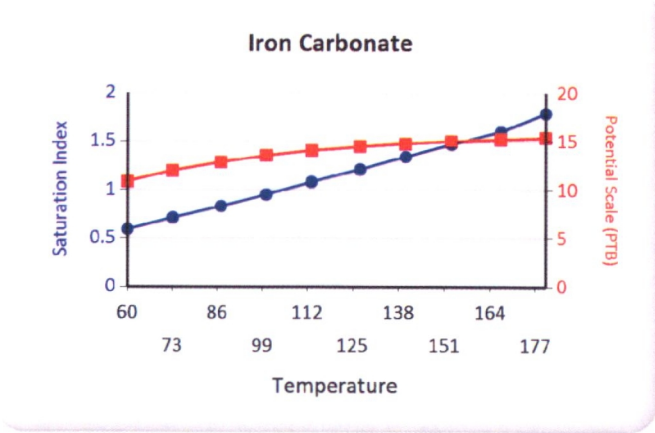
Water Analysis Report

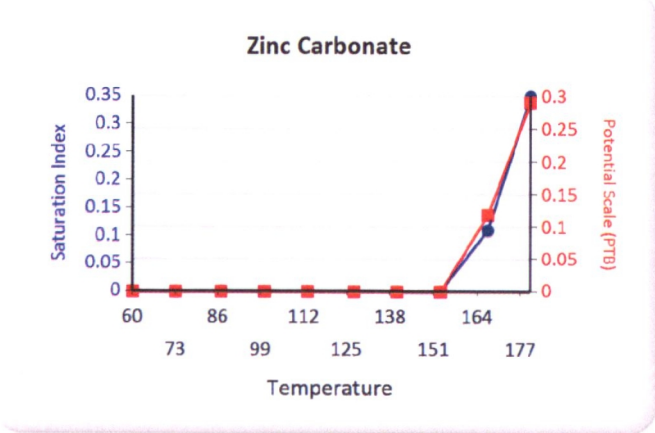
		Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
180.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.29	0.00	0.00	0.16	2.88	0.00	0.00	5.31	16.27
167.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.12	0.00	0.00	0.00	0.00	0.00	0.00	4.31	15.63
153.00	483.00	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	3.65	14.91
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	3.01	13.82
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	2.38	12.25
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	1.76	10.11
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	1.16	7.35
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	0.58	3.97
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	0.01	0.07
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

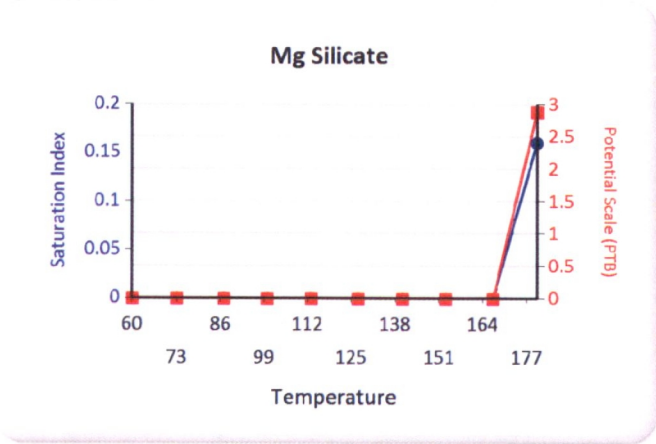
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Carbonate Zinc Carbonate Mg Silicate Fe Silicate

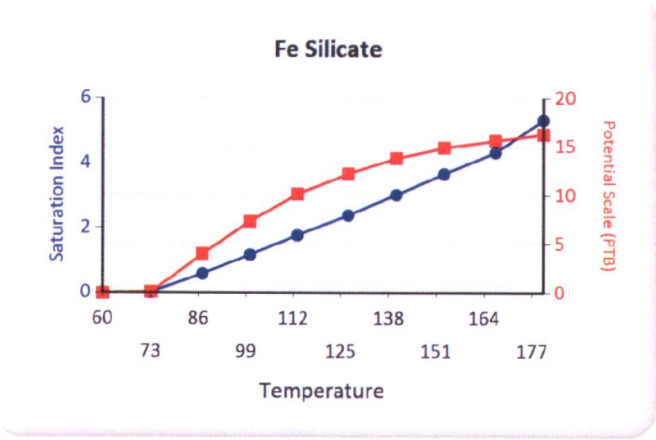
These scales have positive scaling potential under final temperature and pressure: Iron Carbonate








Mg Silicate
Saturation Index
0.2
0.15
0.1
0.05
0
Potential Scale (PTB)
3
2.5
2
1.5
1
0.5
0
60
86
112
138
164
73
99
125
151
177
Temperature


Fe Silicate
Saturation Index
6
4
2
0
Potential Scale (PTB)
20
15
10
5
0
60
86
112
138
164
73
99
125
151
177
Temperature

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

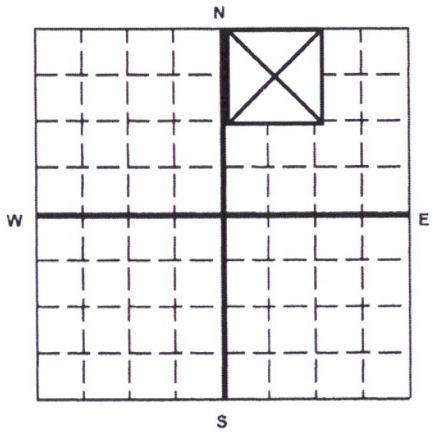
United States Environmental Protection Agency
Washington, DC 20460

EPA

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	UT2736-04202

Surface Location Description

____ 1/4 of ____ 1/4 of NW 1/4 of NE 1/4 of Section 18 Township 5S Range 3W

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

Surface Location 812 ft. frm (N/S) N Line of quarter section
and 1768 ft. from (E/W) E 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 18-02

		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	1627	1646	7300		0	0
February	14	1650	1648	6581		0	0
March	14	1666	1690	7564		0	0
April	14	1702	1711	7246		0	0
May	14	1714	1729	7177		0	0
June	14	1730	1758	6859		0	0
July	14	1739	1765	6687		0	0
August	14	1715	1777	7296		0	0
September	14	1768	1802	6230		0	0
October	14	1786	1821	6159		0	0
November	14	1786	1791	5318		0	0
December	14	1783	1790	5316		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 3/23/15
Initial GW

	GREEN	BLUE	CBI
TAB		2	

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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 18-02 INJ, DUCHESNE**	Lab Tech:	**Gary Winegar**
Sample Point:	**WELLHEAD**		
Sample Date:	**1/7/2015**		
Sample ID:	**WA-297462**		

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):	1.0044
pH:	8.10
Calculated TDS (mg/L):	10475.99
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):	3465.58	Chloride (Cl):	5000.00
Potassium (K):	49.41	Sulfate (SO_4):	31.00
Magnesium (Mg):	17.97	Bicarbonate (HCO_3):	1830.00
Calcium (Ca):	33.93	Carbonate (CO_3):	
Strontium (Sr):	5.79	Acetic Acid (CH_3COO)	
Barium (Ba):	15.58	Propionic Acid (C_2H_5COO)	
Iron (Fe):	1.34	Butanoic Acid (C_3H_7COO)	
Zinc (Zn):	1.33	Isobutyric Acid ($(CH_3)_2CHCOO$)	
Lead (Pb):	0.00	Fluoride (F):	
Ammonia NH_3:		Bromine (Br):	
Manganese (Mn):	0.11	Silica (SiO_2):	23.95

Notes:
B=6.14 Al=.04 Li=1.89

(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	1.08	24.46	1.34	8.64	3.06	0.74	1.57	0.95	0.00	0.00	0.00	0.00	0.00	0.00	11.15	0.69
88.00	157.00	1.06	24.00	1.25	8.51	2.96	0.74	1.58	0.95	0.00	0.00	0.00	0.00	0.00	0.00	10.94	0.69
97.00	300.00	1.08	24.29	1.17	8.37	2.90	0.74	1.63	0.95	0.00	0.00	0.00	0.00	0.00	0.00	10.78	0.69
106.00	443.00	1.10	24.59	1.10	8.22	2.86	0.74	1.68	0.95	0.00	0.00	0.00	0.00	0.00	0.00	10.63	0.69
115.00	585.00	1.13	24.90	1.04	8.06	2.82	0.74	1.73	0.96	0.00	0.00	0.00	0.00	0.00	0.00	10.49	0.69
124.00	728.00	1.15	25.22	0.98	7.90	2.79	0.74	1.77	0.96	0.00	0.00	0.00	0.00	0.00	0.00	10.36	0.69
133.00	871.00	1.18	25.54	0.93	7.73	2.76	0.74	1.82	0.96	0.00	0.00	0.00	0.00	0.00	0.00	10.24	0.69
142.00	1014.00	1.21	25.85	0.88	7.56	2.75	0.74	1.87	0.96	0.00	0.00	0.00	0.00	0.00	0.00	10.13	0.69
151.00	1157.00	1.24	26.16	0.84	7.40	2.73	0.74	1.91	0.96	0.00	0.00	0.00	0.00	0.00	0.00	10.02	0.69
160.00	1300.00	1.27	26.46	0.80	7.24	2.73	0.74	1.96	0.96	0.00	0.00	0.00	0.00	0.00	0.00	9.92	0.69

		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	0.80	0.75	0.00	0.00	0.00	0.00	0.00	0.00	4.80	1.01
88.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.78	0.00	0.00	0.00	0.00	0.00	0.00	4.80	1.01
97.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	0.81	0.00	0.00	0.00	0.00	0.00	0.00	5.04	1.02
106.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.83	0.00	0.00	0.36	2.16	0.00	0.00	5.29	1.02
115.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26	0.84	0.00	0.00	0.77	4.43	0.00	0.00	5.55	1.03
124.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	1.37	0.86	0.00	0.00	1.19	6.73	0.10	0.83	5.82	1.03
133.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47	0.86	0.00	0.00	1.61	9.04	0.33	2.26	6.09	1.03
142.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57	0.87	0.00	0.00	2.03	11.35	0.57	3.69	6.38	1.03
151.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	1.67	0.88	0.00	0.00	2.45	13.62	0.81	5.10	6.67	1.03
160.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.88	0.00	0.00	2.87	15.82	1.05	6.47	6.96	1.04

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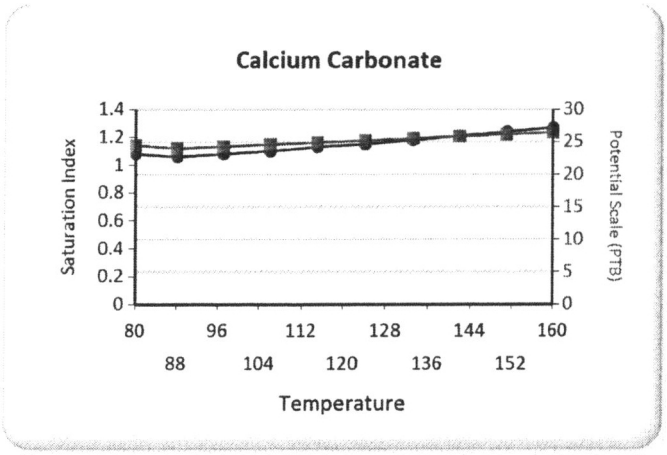
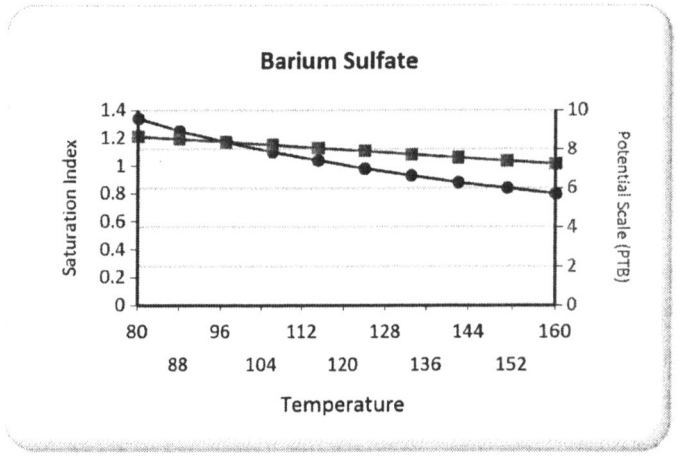
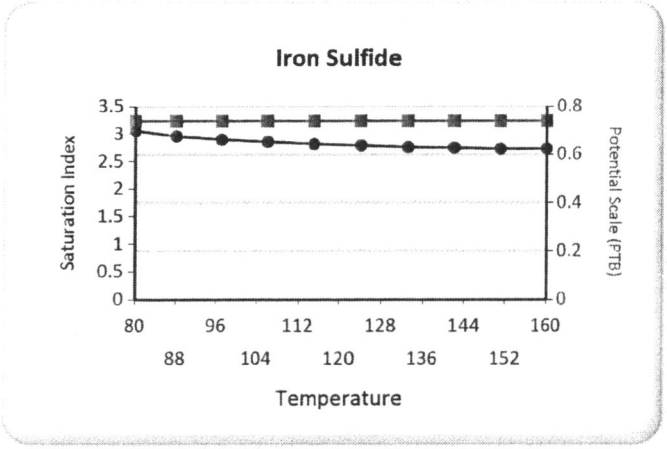
Water Analysis Report

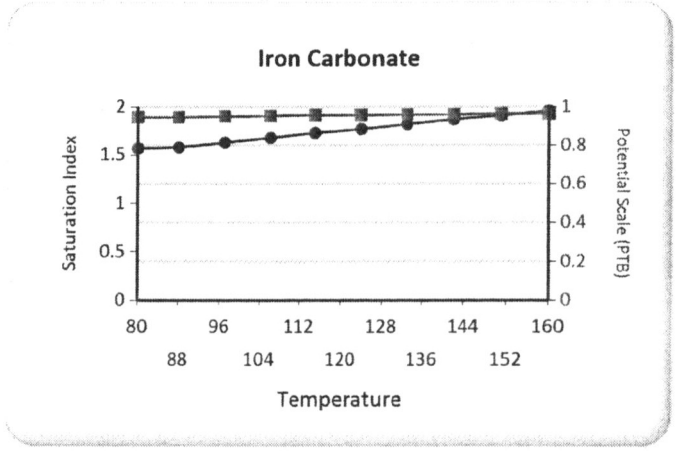
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Fe Silicate

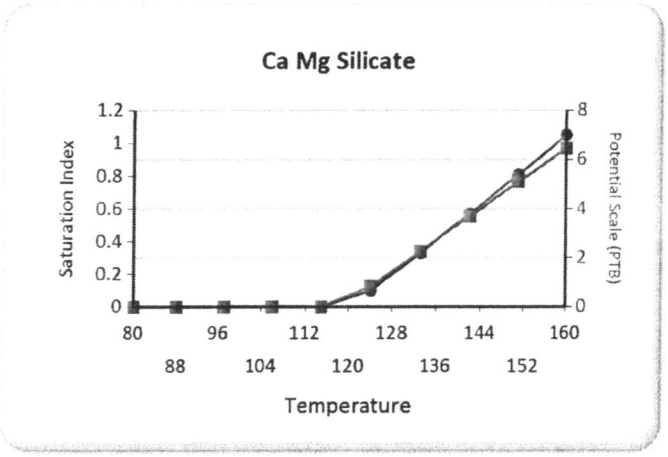
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

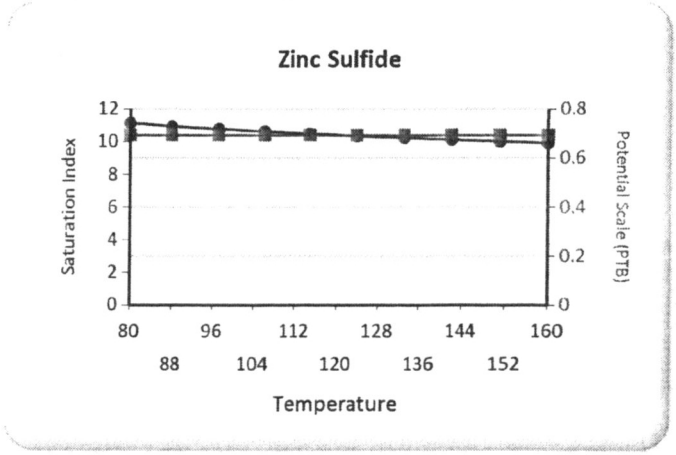


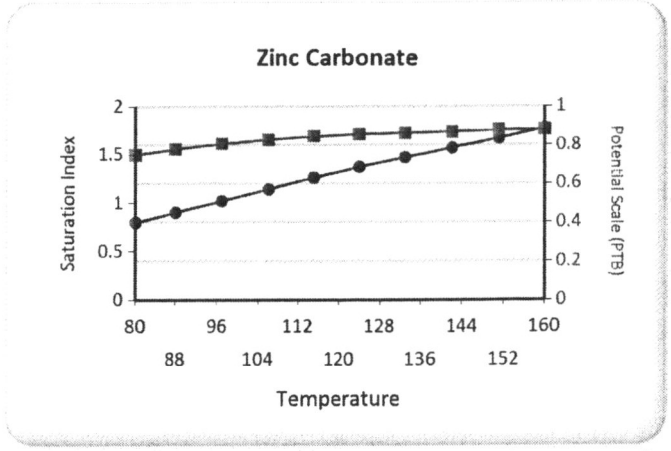


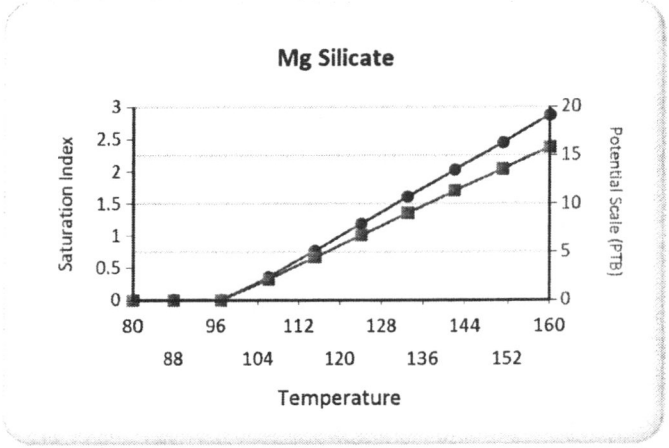









Zinc Carbonate
Saturation Index
Potential Scale (PTB)
Temperature
0
0.5
1
1.5
2
0.2
0.4
0.6
0.8
1
80
88
96
104
112
120
128
136
144
152
160


Mg Silicate
Saturation Index
Potential Scale (PTB)
Temperature
0
0.5
1
1.5
2
2.5
3
5
10
15
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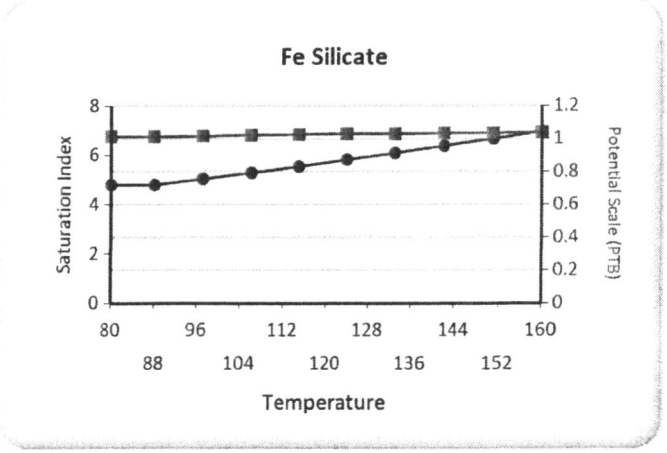
112
120
128
136
144
152
160


Fe Silicate
Saturation Index
Potential Scale (PTB)
Temperature
0
2
4
6
8
0.2
0.4
0.6
0.8
1
1.2
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

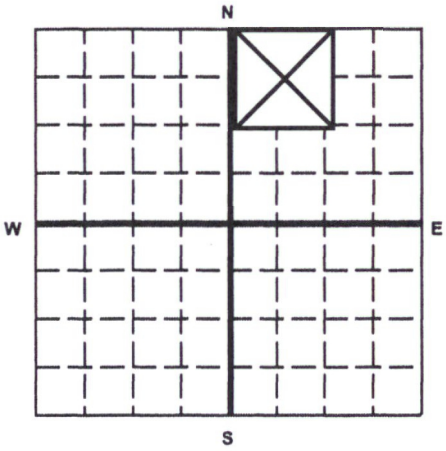
EPA

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	UT2736-04202

Surface Location Description
___ 1/4 of ___ 1/4 of NW 1/4 of NE 1/4 of Section 18 Township 5S Range 3W

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

Surface Location 812 ft. frm (N/S) N Line of quarter section
and 1768 ft. from (E/W) E 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 18-02

		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	1177	1272	3480		0	0
February	13	1311	1339	3738		0	0
March	13	1266	1289	5559		0	0
April	13	1338	1357	7126		0	0
May	13	1396	1429	7376		0	0
June	13	1433	1454	5607		0	0
July	13	1459	1496	6327		0	0
August	13	1487	1535	6484		0	200
September	13	1497	1560	6910		0	0
October	13	1440	1531	6052		0	0
November	13	1548	1575	6949		0	0
December	13	1597	1614	7517		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

UIC Entered
Date 3/20/14
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 18-02 INJ**
Sample Point: **Wellhead**
Sample Date: **1/8/2014**
Sample ID: **WA-263391**

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:	7.00
Calculated TDS (mg/L):	2408.27
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):	146.00	Chloride (Cl):	1000.00
Potassium (K):	5.50	Sulfate (SO_4):	391.00
Magnesium (Mg):	71.00	Bicarbonate (HCO_3):	488.00
Calcium (Ca):	186.00	Carbonate (CO_3):	
Strontium (Sr):	4.97	Acetic Acid (CH_3COO)	
Barium (Ba):	1.70	Propionic Acid (C_2H_5COO)	
Iron (Fe):	92.00	Butanoic Acid (C_3H_7COO)	
Zinc (Zn):	0.33	Isobutyric Acid ($(CH_3)_2CHCOO$)	
Lead (Pb):	0.00	Fluoride (F):	
Ammonia NH_3:		Bromine (Br):	
Manganese (Mn):	0.37	Silica (SiO_2):	21.40

Notes:
B=.75 Al=.3 Li=.06

(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	0.25	15.92	2.06	1.00	0.00	0.00	1.66	60.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73.00	157.00	0.23	14.62	1.91	1.00	0.00	0.00	1.70	60.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86.00	300.00	0.28	17.95	1.78	1.00	0.00	0.00	1.80	61.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	443.00	0.34	21.70	1.67	0.99	0.00	0.00	1.91	62.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113.00	585.00	0.40	25.84	1.58	0.98	0.00	0.00	2.01	63.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126.00	728.00	0.47	30.30	1.49	0.98	0.00	0.00	2.12	64.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	871.00	0.55	35.04	1.43	0.97	0.00	0.00	2.22	64.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153.00	1014.00	0.63	40.00	1.37	0.97	0.00	0.00	2.33	65.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166.00	1157.00	0.71	45.14	1.32	0.96	0.00	0.00	2.43	65.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	1300.00	0.80	50.40	1.29	0.96	0.00	0.00	2.54	65.86	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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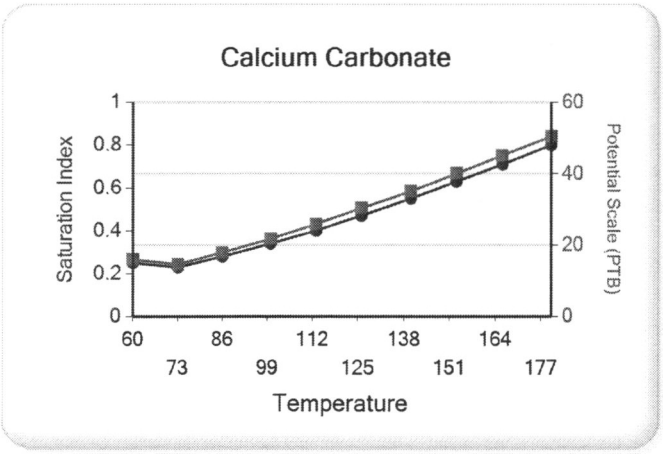
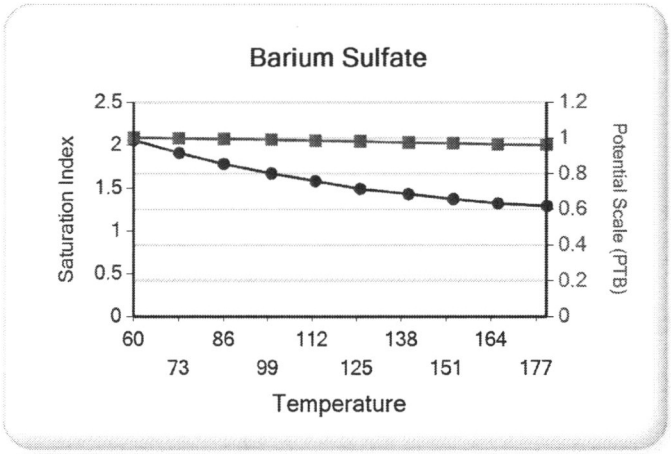
Water Analysis Report

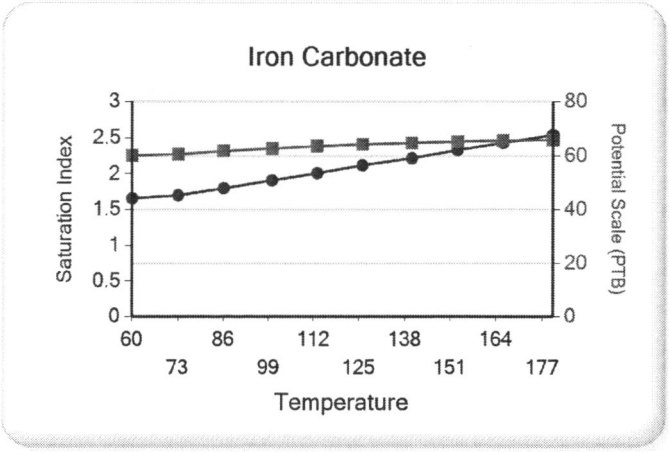
		Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
60.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.79	17.33
73.00	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	2.84	17.47
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	3.31	19.23
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	3.82	20.67
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	4.37	21.71
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	4.94	22.38
140.00	871.00	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	5.54	22.78
153.00	1014.00	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	6.15	22.99
166.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	6.78	23.10
180.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.08	0.00	0.00	0.32	2.79	0.00	0.00	7.42	23.16

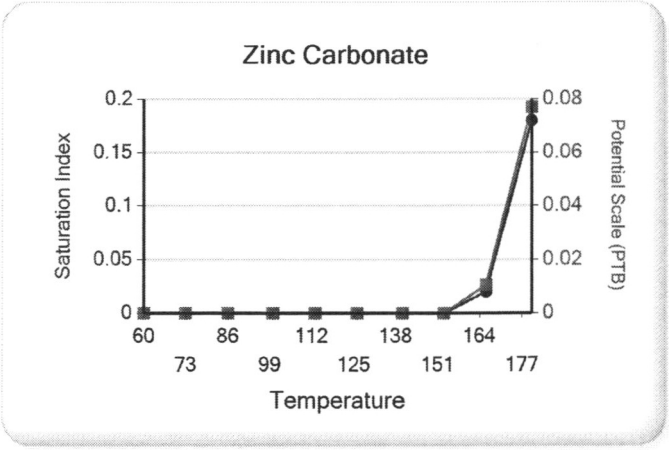
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Carbonate Fe Silicate

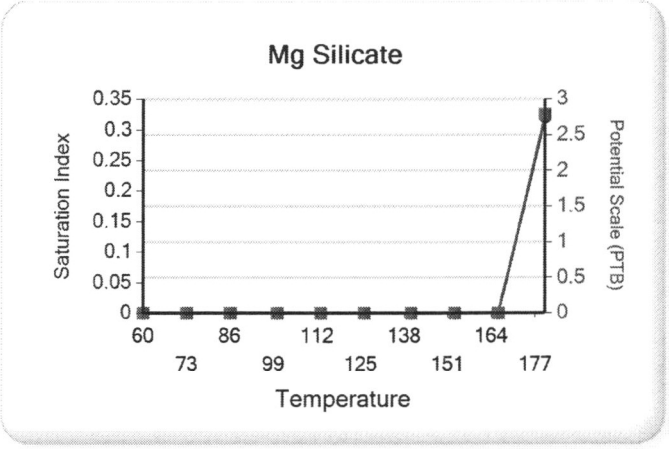
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Carbonate Zinc Carbonate Mg Silicate Fe Silicate

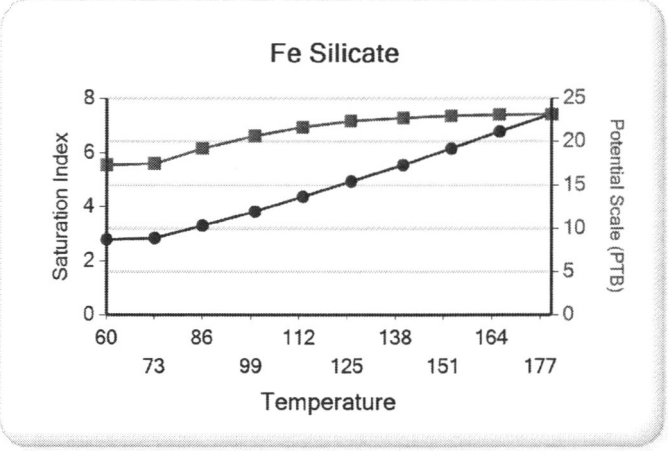







Zinc Carbonate
Saturation Index
Potential Scale (PTB)
0.2
0.15
0.1
0.05
0
0.08
0.06
0.04
0.02
0
60
86
112
138
164
73
99
125
151
177
Temperature


Mg Silicate
Saturation Index
Potential Scale (PTB)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
3
2.5
2
1.5
1
0.5
0
60
86
112
138
164
73
99
125
151
177
Temperature


Fe Silicate
Saturation Index
Potential Scale (PTB)
8
6
4
2
0
25
20
15
10
5
0
60
86
112
138
164
73
99
125
151
177
Temperature

Petroglyph Operating Company, Inc.
Annulus Pressure Cause and Mitigation Measures
2013 EPA Annual Injection Report

Well Name: Ute Tribal 18-02

UIC Permit Number: UT2736-04202

API Number: 43-013-31099

Cause of Pressure and Mitigation Measures:
This well sometimes builds up a small amount of pressure due to formation temperature. The pressure is relieved and does not return for some time.

PETROGLYPH

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

AUG 30 1994

Ref: 8WM-DW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

R. A. Christensen
President
Petroglyph Operating Company, Inc.
6209 North Highway 61
Hutchinson, Kansas 67502

RE: UNDERGROUND INJECTION CONTROL (UIC)
Authorization to Inject
Antelope Creek Field Waterflood
EPA Area Permit No. UT2736-00000
Duchesne County, Utah

Dear Mr. Christensen: #1-8 new well # is # 18-2

Thank you for the recently submitted Well Rework Records and mechanical integrity test results for the Ute Tribal enhanced recovery wells #1-18, #4-18, and #5-18 in the Antelope Creek Field. Petroglyph has complied with all pertinent conditions [Part II, C. 1.] of the area permit which includes these three wells, and may begin injection operations.

Please be aware of the monitoring, recordkeeping, and reporting obligations described in Part II, Section D of the permit. If you have any questions on this action, you may call Chuck Williams at (303) 293-1550. Also, please direct all correspondence to the attention of Chuck Williams at Mail Code 8WM-DW.

Sincerely,

John A. Carson

for Thomas J. Pike
Chief
UIC Implementation Section

Printed on Recycled Paper

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

AUG 30 1994

Note: Old Well # is # 4-18. New Well # is 18-2

Ref: 8WM-DW

Scan under UT20736-04202 Authorization to Inject-Field

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

R. A. Christensen
President
Petroglyph Operating Company, Inc.
6209 North Highway 61
Hutchinson, Kansas 67502

RE: UNDERGROUND INJECTION CONTROL (UIC)
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John A. Carson

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Chief
UIC Implementation Section

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