Inspection Report For Well: UT20736 - 04390

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: 11:15 am / pm

OPERATOR (only if different): _____

REPRESENTATIVE(S): Chad Stevinson

PRE-INSPECTION REVIEW

Petroglyph Operating Company, Inc

Well Name:	Ute Tribal 19-03		
Well Type:	Enhanced Recovery (2R)		
Operating Status:	AC (ACTIVE) as of 12/31/2002		
Oil Field:	Antelope Creek (Duchesne)		
Location:	NENW S18 T5S R3W		
Indian Country:	X, Uintah and Ouray		
Last Inspection:	8/29/2012	***Allowable Inj Pressure:***	2465 /
Last MIT:	Pass 5/2/2011	***Annulus Pressure From Last MIT:***	1100

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 1/2/14
Initials DB

OBSERVED VALUES:

Tubing Gauge:	[x] Yes [ ] No	Pressure: U: 1190 / 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
- [x] Not Injecting
- [ ] Plugged and Abandoned
- [ ] Being Reworked
- [ ] Production
- [ ] Under Construction

U2 Entered
Date 12/17/13
Initial SC

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

	GREEN	BLUE	CBI
TA		1	

Inspection Report For Well: UT20736 - 04390 (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

BLUE

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

EPA

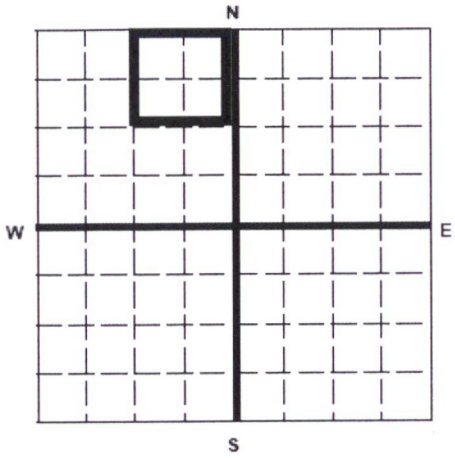
United States Environmental Protection Agency
Washington, DC 20460

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	UT2736-04390

Surface Location Description
___ 1/4 of 1/4 of NE 1/4 of NW 1/4 of Section 19 Township 5S Range 3W

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

Surface Location 674 ft. frm (N/S) N Line of quarter section
and 2016 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 19-03

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	1943	1960	135		0	0
February	16	1957	1960	145		0	0
March	16	1960	1980	153		0	0
April	16	1948	1975	134		0	0
May	16	1939	1950	145		0	0
June	16	1908	1945	119		0	0
July	16	1914	1914	189		0	0
August	16	1955	1960	206		0	0
September	16	1950	1960	256		0	0
October	16	1958	1970	338		0	0
November	16	1931	1960	138		0	0
December	16	1930	1945	171		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

multi-chem
A HALLIBURTON SERVICE

Units of Measurement: **Standard**

Water Analysis Report

Production Company:	**PETROGLYPH OPERATING CO INC - EBUS**	Sales Rep:	**James Patry**
Well Name:	**UTE TRIBAL 19-03 INJ, DUCHESNE**	Lab Tech:	**Gary Peterson**
Sample Point:	**Well Head**		
Sample Date:	**1/13/2017**		
Sample ID:	**WA-345668**		

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

Sample Specifics

Test Date:	**1/24/2017**
System Temperature 1 (°F):	**300**
System Pressure 1 (psig):	**2000**
System Temperature 2 (°F):	**130**
System Pressure 2 (psig):	**50**
Calculated Density (g/ml):	**1.0055**
pH:	**8.43**
Calculated TDS (mg/L):	**11901.86**
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):	**4136.24**	Chloride (Cl):	**5000.00**
Potassium (K):	**28.84**	Sulfate (SO_4):	**0.00**
Magnesium (Mg):	**10.29**	Bicarbonate (HCO_3):	**2623.00**
Calcium (Ca):	**28.81**	Carbonate (CO_3):	
Strontium (Sr):	**5.74**	Hydroxide(HO):	
Barium (Ba):	**25.44**	Acetic Acid (CH_3COO)	
Iron (Fe):	**11.25**	Propionic Acid (C_2H_5COO)	
Zinc (Zn):	**5.55**	Butanoic Acid (C_3H_7COO)	
Lead (Pb):	**0.13**	Isobutyric Acid ($(CH_3)_2CHCOO$)	
Ammonia NH_3:		Fluoride (F):	
Manganese (Mn):	**0.17**	Bromine (Br):	
Aluminum (Al):	**0.07**	Silica (SiO_2):	**26.40**
Lithium (Li):	**1.51**	Calcium Carbonate ($CaCO_3$):	
Boron (B):	**5.38**	Phosphates (PO_4):	
Silicon (Si):	**12.34**	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	1.51	24.04	0.00	0.00	4.06	6.20	3.25	8.17	0.00	0.00	0.00	0.00	0.00	0.00	11.21	2.90
149.00	267.00	1.56	24.17	0.00	0.00	3.99	6.20	3.33	8.18	0.00	0.00	0.00	0.00	0.00	0.00	10.95	2.90
168.00	483.00	1.62	24.34	0.00	0.00	3.96	6.20	3.42	8.18	0.00	0.00	0.00	0.00	0.00	0.00	10.72	2.90
187.00	700.00	1.70	24.49	0.00	0.00	3.95	6.20	3.50	8.18	0.00	0.00	0.00	0.00	0.00	0.00	10.51	2.90
206.00	917.00	1.79	24.63	0.00	0.00	3.96	6.20	3.59	8.18	0.00	0.00	0.00	0.00	0.00	0.00	10.34	2.90
224.00	1133.00	1.88	24.76	0.00	0.00	3.99	6.20	3.66	8.18	0.00	0.00	0.00	0.00	0.00	0.00	10.19	2.90
243.00	1350.00	1.99	24.86	0.00	0.00	4.04	6.20	3.74	8.18	0.00	0.00	0.00	0.00	0.00	0.00	10.06	2.90
262.00	1567.00	2.10	24.94	0.00	0.00	4.10	6.20	3.80	8.18	0.00	0.00	0.00	0.00	0.00	0.00	9.94	2.90
281.00	1783.00	2.21	25.01	0.00	0.00	4.17	6.20	3.87	8.18	0.00	0.00	0.00	0.00	0.00	0.00	9.84	2.90
300.00	2000.00	2.33	25.06	0.00	0.00	4.25	6.21	3.92	8.18	0.00	0.00	0.00	0.00	0.00	0.00	9.76	2.90

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

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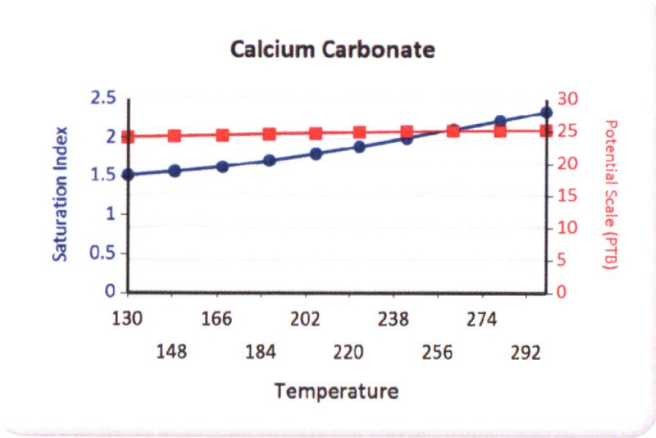
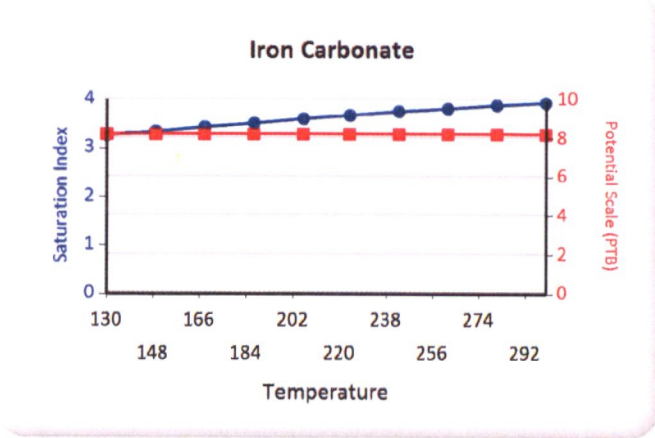
Water Analysis Report

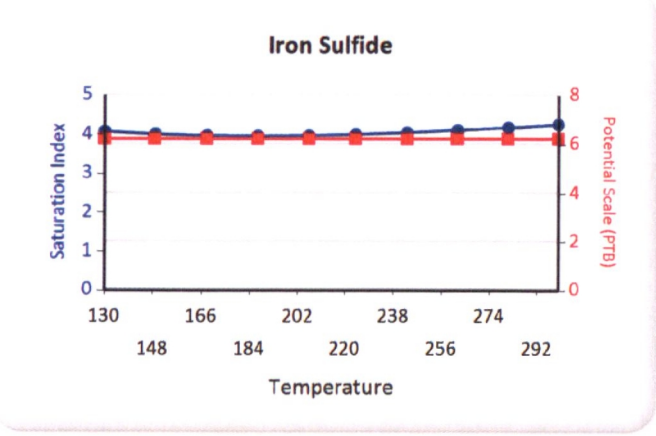
		Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
130.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	3.72	11.29	0.05	3.31	16.71	1.84	17.00	11.52	8.75
149.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	2.70	3.72	10.85	0.05	4.03	18.18	2.22	19.72	11.94	8.75
168.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00	2.88	3.73	10.46	0.05	4.77	19.21	2.63	22.59	12.42	8.75
187.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	3.05	3.73	10.11	0.05	5.51	19.82	3.05	25.19	12.91	8.75
206.00	917.00	0.00	0.00	0.00	0.00	0.00	0.00	3.20	3.73	9.80	0.05	6.24	20.16	3.46	27.40	13.41	8.75
224.00	1133.00	0.00	0.00	0.00	0.00	0.00	0.00	3.34	3.73	9.53	0.05	6.96	20.34	3.87	29.18	13.91	8.75
243.00	1350.00	0.00	0.00	0.00	0.00	0.00	0.00	3.46	3.73	9.29	0.05	7.66	20.44	4.28	30.49	14.42	8.75
262.00	1567.00	0.00	0.00	0.00	0.00	0.00	0.00	3.56	3.73	9.07	0.05	8.34	20.49	4.68	31.35	14.93	8.75
281.00	1783.00	0.00	0.00	0.00	0.00	0.00	0.00	3.65	3.73	8.87	0.05	9.01	20.52	5.07	31.81	15.42	8.75
300.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	3.73	3.73	8.70	0.05	9.64	20.54	5.45	32.02	15.91	8.75

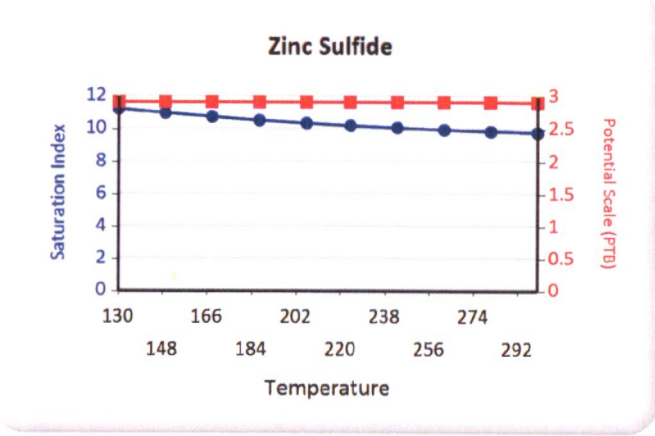
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

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









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

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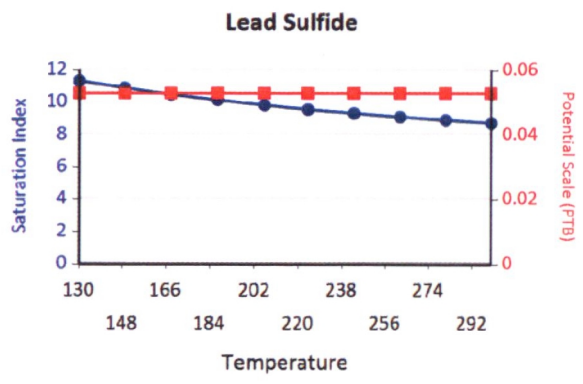
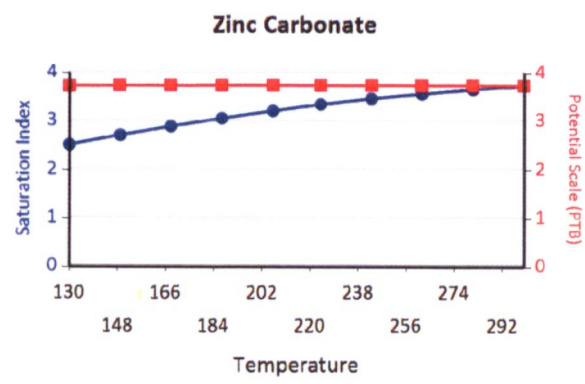
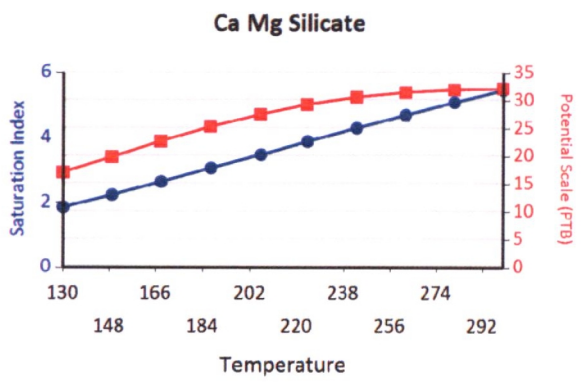
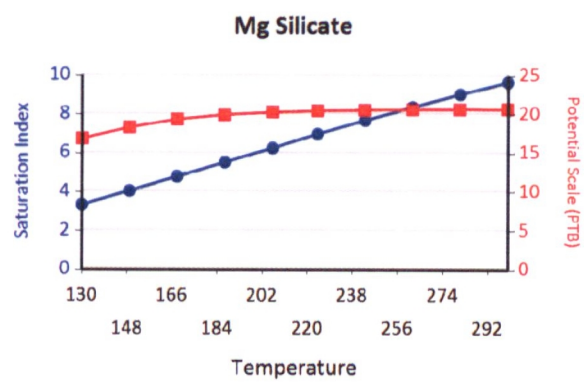
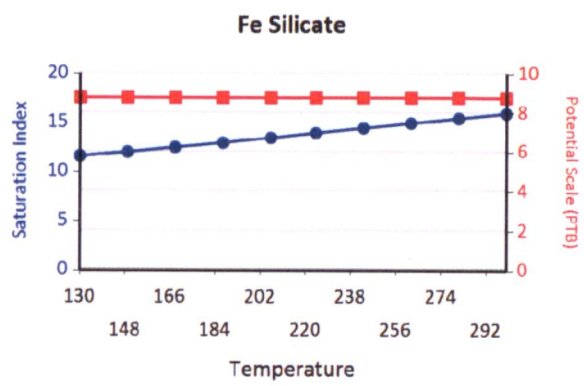
Water Analysis Report











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

EPA

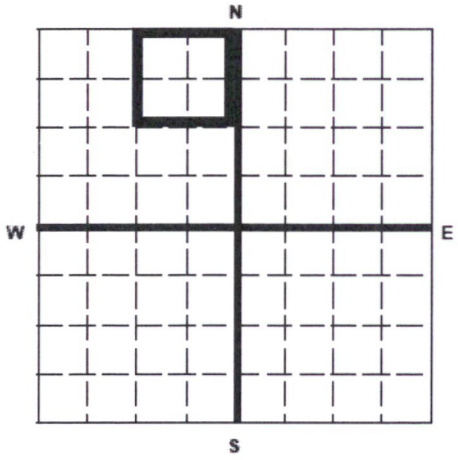
United States Environmental Protection Agency
Washington, DC 20460

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~~ 04390

Surface Location Description
___ 1/4 of ___ 1/4 of NE 1/4 of NW 1/4 of Section 19 Township 5S Range 3W

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

Surface Location 674 ft. frm (N/S) N Line of quarter section
and 2016 ft. from (E/W) W Line of quarter section.

U2 Entered
Date 3/2/16
Initial B3

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 19-03

		INJECTION PRESSURE		TOTAL VOLUME INJECTED		TUBING – CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January	15	1931	1940	137		0	0
February	15	1923	1930	101		0	0
March	15	1943	1960	159		0	0
April	15	1922	1940	131		0	0
May	15	1893	1915	143		0	0
June	15	1912	1920	165		0	0
July	15	1914	1950	206		0	0
August	15	1918	1940	227		0	0
September	15	1868	1910	134		0	0
October	15	1861	1875	190		0	0
November	15	1883	1900	251		0	0
December	15	1962	2000	228		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 GLD
TAB 2

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

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 OPERATING CO INC - EBUS**	Sales Rep:	**James Patry**
Well Name:	**UTE TRIBAL 19-03 INJ, DUCHESNE**	Lab Tech:	**Michele Pike**
Sample Point:	**Well Head**		
Sample Date:	**1/6/2016**		
Sample ID:	**WA-327525**		

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):	1.0016
pH:	6.80
Calculated TDS (mg/L):	6106.82
CO2 in Gas (%):	
Dissolved CO_2 (mg/L)):	48.00
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):	1830.52	Chloride (Cl):	2500.00
Potassium (K):	0.59	Sulfate (SO_4):	550.00
Magnesium (Mg):	87.44	Bicarbonate (HCO_3):	903.00
Calcium (Ca):	193.38	Carbonate (CO_3):	
Strontium (Sr):	5.07	Acetic Acid (CH_3COO)	
Barium (Ba):	0.08	Propionic Acid (C_2H_5COO)	
Iron (Fe):	3.99	Butanoic Acid (C_3H_7COO)	
Zinc (Zn):	0.61	Isobutyric Acid ($(CH_3)_2CHCOO$)	
Lead (Pb):	0.28	Fluoride (F):	
Ammonia NH_3:		Bromine (Br):	
Manganese (Mn):	0.03	Silica (SiO_2):	31.83
Aluminum (Al):	0.09	Calcium Carbonate ($CaCO_3$):	
Lithium (Li):	0.98	Phosphates (PO_4):	3.69
Boron (B):	0.80	Oxygen (O_2):	
Silicon (Si):	14.88		

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	0.79	80.91	0.00	0.00	0.00	0.00	1.24	2.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.00	267.00	0.62	65.33	0.00	0.00	0.00	0.00	1.05	2.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153.00	483.00	0.51	54.88	0.00	0.00	0.00	0.00	0.92	2.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	700.00	0.41	44.51	0.00	0.00	0.00	0.00	0.78	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
127.00	917.00	0.31	34.35	0.00	0.00	0.00	0.00	0.65	2.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113.00	1133.00	0.22	24.54	0.00	0.00	0.00	0.00	0.52	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	1350.00	0.13	15.20	0.07	0.01	0.00	0.00	0.39	1.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.00	1567.00	0.06	6.47	0.16	0.01	0.00	0.00	0.26	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73.00	1783.00	0.00	0.00	0.27	0.02	0.00	0.00	0.14	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.00	2000.00	0.00	0.00	0.40	0.03	0.00	0.00	0.02	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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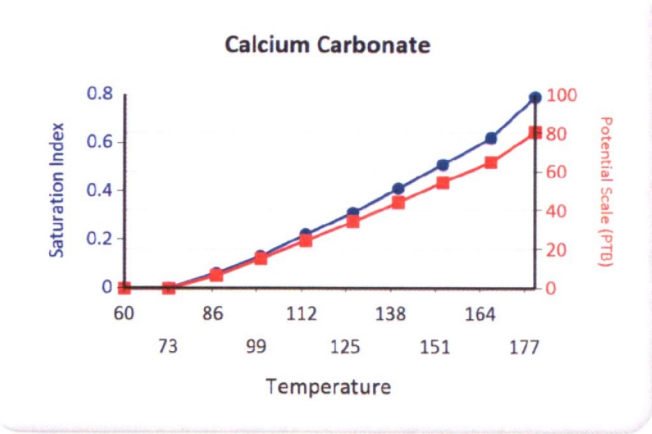
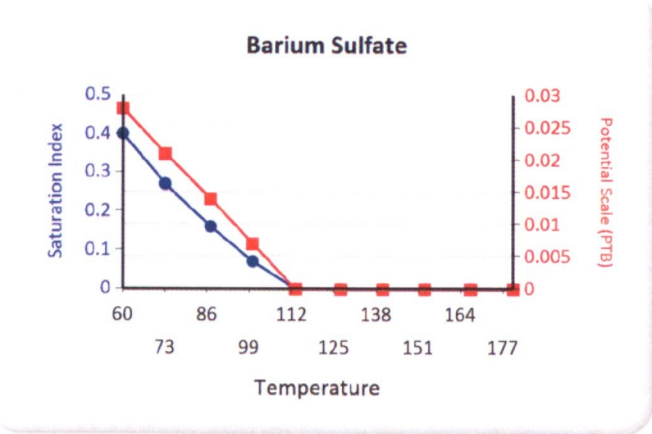
Water Analysis Report

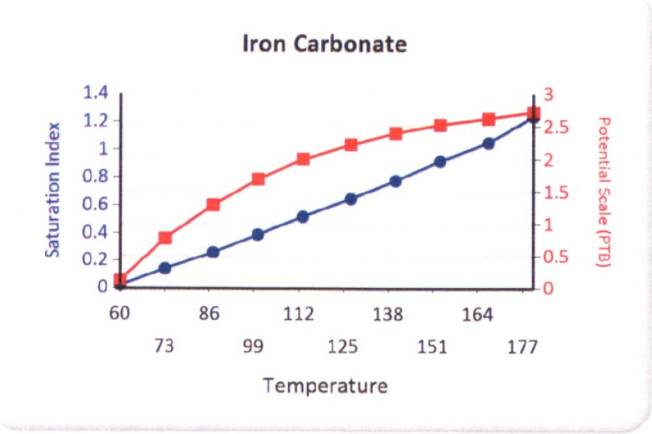
		Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
180.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.25	0.00	0.00	0.13	2.71	0.00	0.00	3.29	2.83
167.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.14	0.00	0.00	0.00	0.00	0.00	0.00	2.28	2.52
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	1.62	2.14
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	0.97	1.54
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	0.33	0.64
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

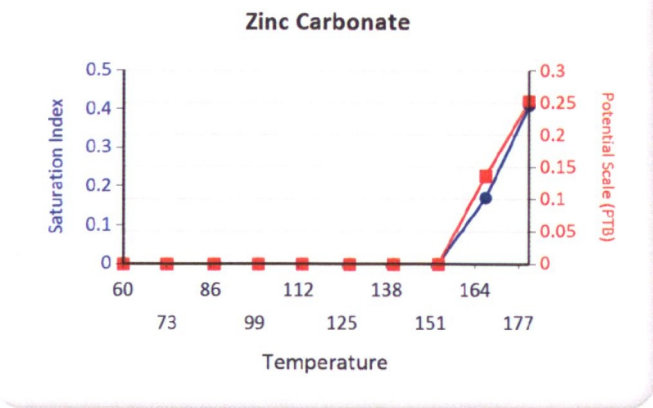
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Carbonate Zinc Carbonate Mg Silicate Fe Silicate

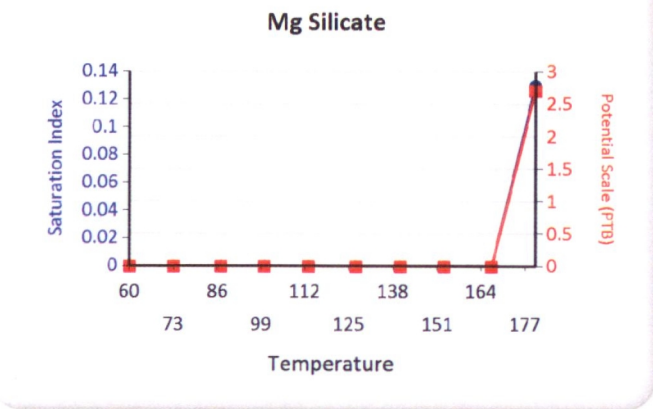
These scales have positive scaling potential under final temperature and pressure: Barium Sulfate Iron Carbonate

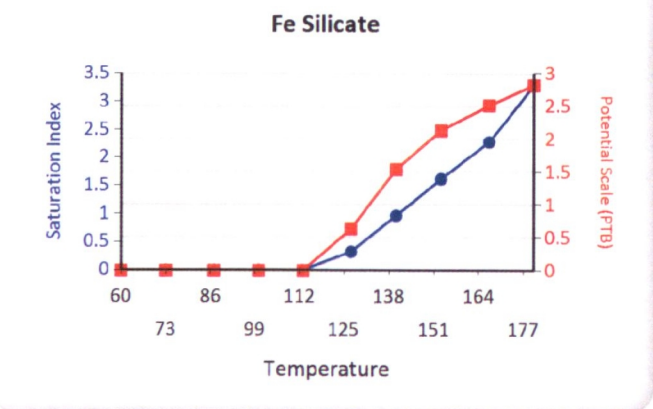







Zinc Carbonate
Saturation Index
Potential Scale (PTB)
Temperature
0.5
0.4
0.3
0.2
0.1
0
0.3
0.25
0.2
0.15
0.1
0.05
0
60
73
86
99
112
125
138
151
164
177


Mg Silicate
Saturation Index
Potential Scale (PTB)
Temperature
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
3
2.5
2
1.5
1
0.5
0
60
73
86
99
112
125
138
151
164
177


Fe Silicate
Saturation Index
Potential Scale (PTB)
Temperature
3.5
3
2.5
2
1.5
1
0.5
0
3
2.5
2
1.5
1
0.5
0
60
73
86
99
112
125
138
151
164
177

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

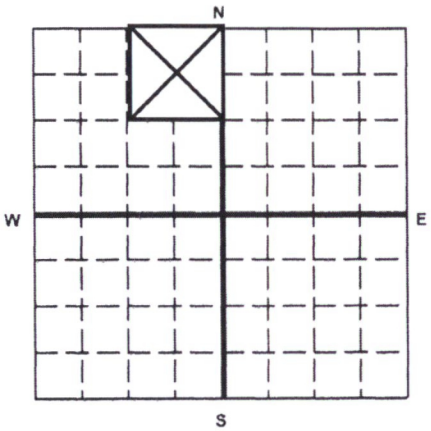
United States Environmental Protection Agency
Washington, DC 20460

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	UT2736-04390

Surface Location Description

___ 1/4 of ___ 1/4 of NE 1/4 of NW 1/4 of Section 19 Township 5S Range 3W

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

Surface Location 674 ft. frm (N/S) N Line of quarter section and 2016 ft. from (E/W) W Line of quarter section.

WELL ACTIVITY	TYPE OF PERMIT
[ ] Brine Disposal	[ ] Individual
[X] Enhanced Recovery	[X] Area
[ ] Hydrocarbon Storage	Number of Wells 111

Lease Name Ute Indian Tribe Well Number UTE TRIBAL 19-03

		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	2003	2012	77		0	0
February	14	1988	2013	30		0	0
March	14	1996	2005	110		0	0
April	14	1784	2015	629		0	0
May	14	1989	1989	470		0	0
June	14	1996	2021	288		0	0
July	14	1960	1989	122		0	0
August	14	1922	1955	140		0	0
September	14	1901	1910	135		0	0
October	14	1968	1995	255		0	0
November	14	1980	2000	199		0	0
December	14	1934	1960	141		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 3/30/15
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 19-03 INJ, DUCHESNE**	Lab Tech:	**Gary Winegar**
Sample Point:	**WELLHEAD**		
Sample Date:	**1/7/2015**		
Sample ID:	**WA-297437**		

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:	8.30
Calculated TDS (mg/L):	10767.85
CO2 in Gas (%):	
Dissolved CO_2 (mg/L)):	0.00
H_2S in Gas (%):	
H2S in Water (mg/L):	5.00

Analysis @ Properties in Sample Specifics			
Cations	*mg/L*	*Anions*	*mg/L*
Sodium (Na):	3327.45	Chloride (Cl):	6000.00
Potassium (K):	47.98	Sulfate (SO_4):	67.00
Magnesium (Mg):	17.52	Bicarbonate (HCO_3):	1220.00
Calcium (Ca):	33.81	Carbonate (CO_3):	
Strontium (Sr):	5.88	Acetic Acid (CH_3COO)	
Barium (Ba):	16.00	Propionic Acid (C_2H_5COO)	
Iron (Fe):	3.44	Butanoic Acid (C_3H_7COO)	
Zinc (Zn):	2.55	Isobutyric Acid ($(CH_3)_2CHCOO$)	
Lead (Pb):	0.04	Fluoride (F):	
Ammonia NH_3:		Bromine (Br):	
Manganese (Mn):	0.13	Silica (SiO_2):	26.05

Notes:
B=6.19 Al=.01 Li=1.87

(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	1.10	22.90	1.68	9.29	3.31	1.90	1.93	2.47	0.00	0.00	0.00	0.00	0.00	0.00	11.34	1.33
88.00	157.00	1.09	22.46	1.59	9.24	3.22	1.90	1.95	2.47	0.00	0.00	0.00	0.00	0.00	0.00	11.14	1.33
97.00	300.00	1.10	22.76	1.52	9.19	3.16	1.90	2.00	2.47	0.00	0.00	0.00	0.00	0.00	0.00	10.98	1.33
106.00	443.00	1.12	23.07	1.45	9.12	3.11	1.90	2.04	2.48	0.00	0.00	0.00	0.00	0.00	0.00	10.82	1.33
115.00	585.00	1.14	23.40	1.38	9.06	3.06	1.90	2.08	2.48	0.00	0.00	0.00	0.00	0.00	0.00	10.68	1.33
124.00	728.00	1.16	23.74	1.32	8.99	3.03	1.90	2.13	2.48	0.00	0.00	0.00	0.00	0.00	0.00	10.54	1.33
133.00	871.00	1.18	24.09	1.27	8.92	2.99	1.90	2.17	2.48	0.00	0.00	0.00	0.00	0.00	0.00	10.41	1.33
142.00	1014.00	1.20	24.45	1.22	8.85	2.97	1.89	2.21	2.49	0.00	0.00	0.00	0.00	0.00	0.00	10.29	1.33
151.00	1157.00	1.23	24.80	1.18	8.78	2.95	1.89	2.25	2.49	0.00	0.00	0.00	0.00	0.00	0.00	10.18	1.33
160.00	1300.00	1.26	25.16	1.14	8.72	2.94	1.89	2.28	2.49	0.00	0.00	0.00	0.00	0.00	0.00	10.07	1.33

		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	1.11	1.57	11.80	0.02	0.66	3.32	0.01	0.29	7.11	2.66
88.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	1.61	11.50	0.02	0.91	4.25	0.12	0.85	7.18	2.66
97.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	1.63	11.23	0.02	1.27	5.85	0.31	1.84	7.39	2.66
106.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	1.65	10.97	0.02	1.64	7.46	0.51	2.85	7.60	2.66
115.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	1.66	10.73	0.02	2.02	9.09	0.71	3.86	7.83	2.67
124.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	1.66	1.68	10.50	0.02	2.40	10.75	0.92	4.89	8.06	2.67
133.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	1.76	1.68	10.29	0.02	2.78	12.44	1.13	5.92	8.30	2.67
142.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	1.85	1.69	10.08	0.02	3.16	14.15	1.34	6.95	8.55	2.67
151.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	1.95	1.69	9.89	0.02	3.54	15.87	1.55	7.98	8.80	2.67
160.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	2.03	1.70	9.71	0.02	3.92	17.59	1.77	9.00	9.05	2.67

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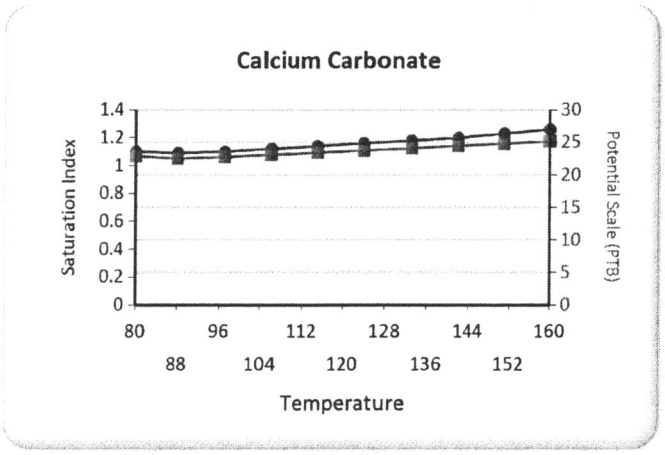
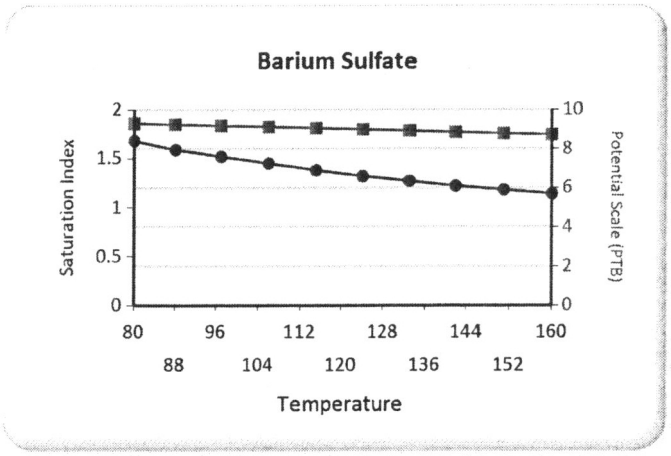
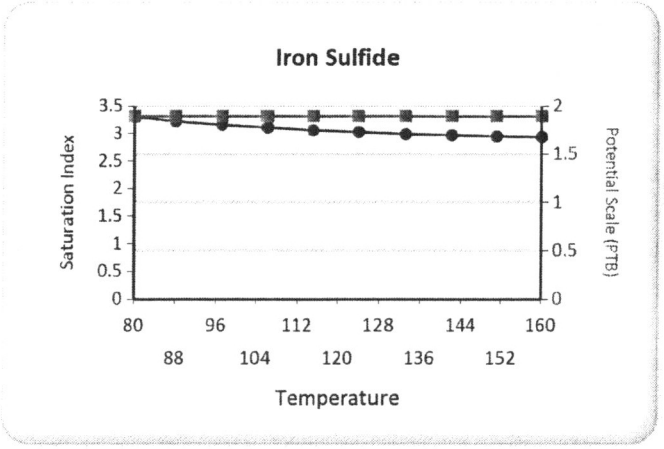
Water Analysis Report

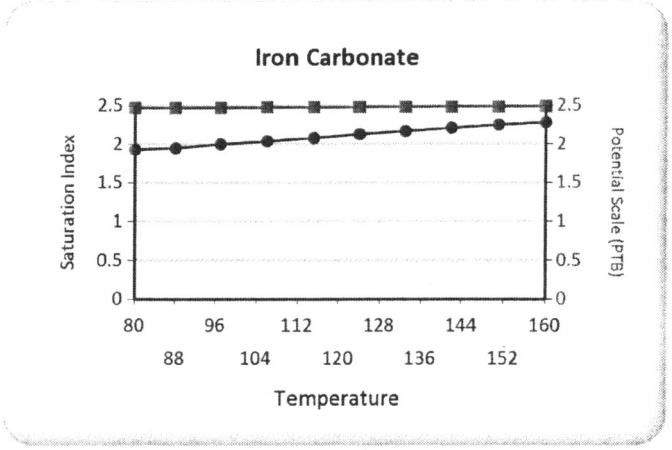
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

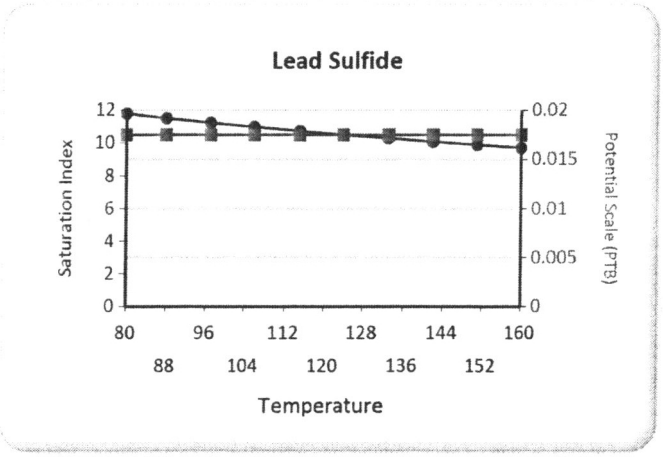
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

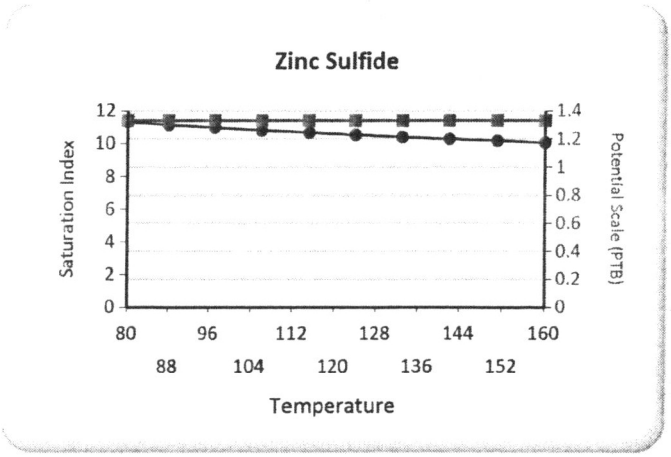












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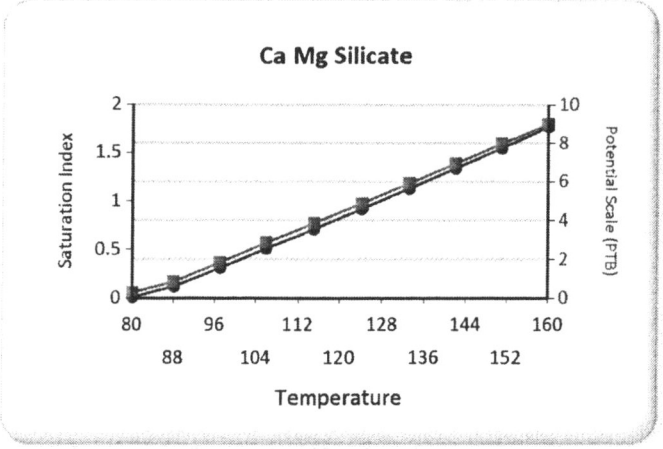
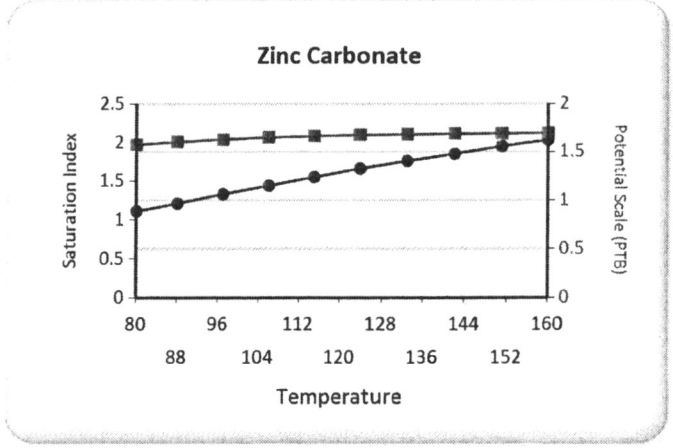
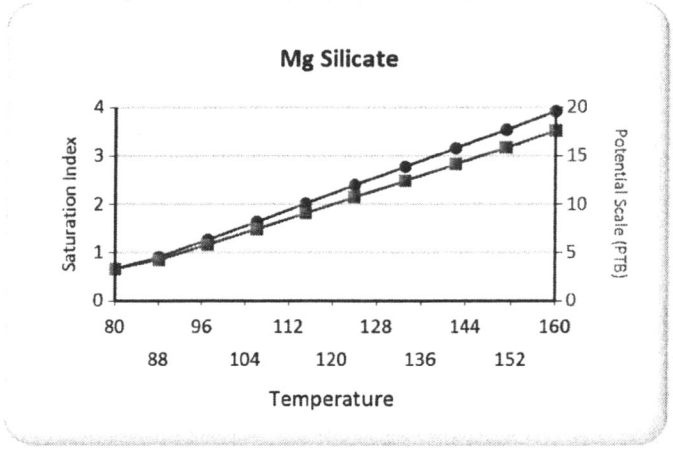
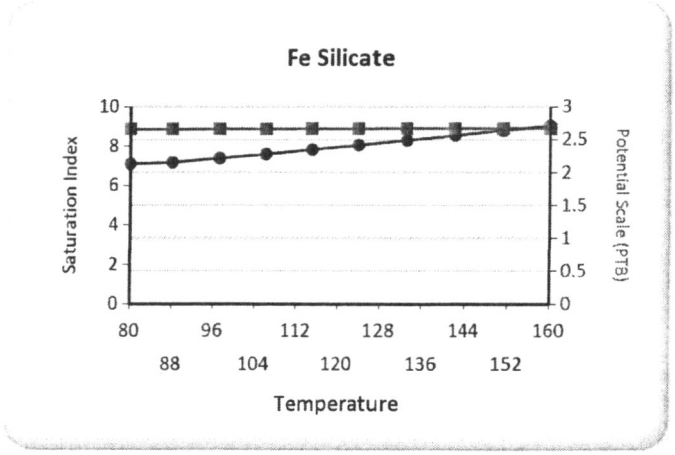
Water Analysis Report









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

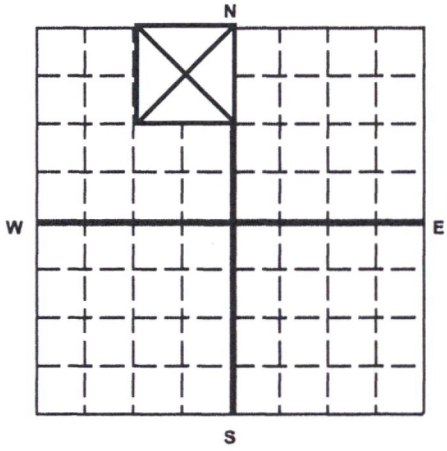
United States Environmental Protection Agency
Washington, DC 20460

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	UT2736-04390

Surface Location Description
___ 1/4 of ___ 1/4 of NE 1/4 of NW 1/4 of Section 19 Township 5S Range 3W

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

Surface Location 674 ft. frm (N/S) N Line of quarter section
and 2016 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 19-03

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	13	1992	2003	91		0	0
February	13	1992	1997	83		0	0
March	13	1983	1985	77		0	0
April	13	1993	2000	100		0	0
May	13	1977	1993	176		0	0
June	13	1971	1968	88		0	0
July	13	1992	2003	107		0	0
August	13	1995	2004	68		0	0
September	13	1998	2014	76		0	0
October	13	1994	2007	86		0	0
November	13	1984	1987	76		0	0
December	13	1994	2013	76		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)

TAB | GREEN | BLUE | CB!
2

U2 Entered
Date 3/2/14
Initial

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 ENERGY INC**
Well Name: **UTE TRIBAL 19-03 INJ**
Sample Point: **Wellhead**
Sample Date: **1/8/2014**
Sample ID: **WA-262969**

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):	1.005
pH:	8.40
Calculated TDS (mg/L):	11336.76
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):	3894.59	Chloride (Cl):	5000.00
Potassium (K):	110.00	Sulfate (SO_4):	245.00
Magnesium (Mg):	24.00	Bicarbonate (HCO_3):	1952.00
Calcium (Ca):	66.00	Carbonate (CO_3):	
Strontium (Sr):	5.60	Acetic Acid (CH_3COO)	
Barium (Ba):	6.50	Propionic Acid (C_2H_5COO)	
Iron (Fe):	11.00	Butanoic Acid (C_3H_7COO)	
Zinc (Zn):	0.31	Isobutyric Acid ($(CH_3)_2CHCOO$)	
Lead (Pb):	0.08	Fluoride (F):	
Ammonia NH_3:		Bromine (Br):	
Manganese (Mn):	0.28	Silica (SiO_2):	21.40

Notes:
B=6.7 Al=.09 Li=1.6

(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	1.60	51.08	2.00	3.83	4.42	6.07	2.62	7.98	0.00	0.00	0.00	0.00	0.00	0.00	11.21	0.16
73.00	157.00	1.61	50.88	1.86	3.82	4.28	6.07	2.68	7.98	0.00	0.00	0.00	0.00	0.00	0.00	10.91	0.16
86.00	300.00	1.63	51.37	1.73	3.80	4.17	6.07	2.75	7.98	0.00	0.00	0.00	0.00	0.00	0.00	10.64	0.16
100.00	443.00	1.65	51.91	1.62	3.78	4.07	6.07	2.82	7.98	0.00	0.00	0.00	0.00	0.00	0.00	10.39	0.16
113.00	585.00	1.68	52.46	1.52	3.75	4.00	6.07	2.89	7.99	0.00	0.00	0.00	0.00	0.00	0.00	10.17	0.16
126.00	728.00	1.72	53.02	1.43	3.73	3.95	6.07	2.96	7.99	0.00	0.00	0.00	0.00	0.00	0.00	9.96	0.16
140.00	871.00	1.76	53.57	1.36	3.70	3.91	6.07	3.02	7.99	0.00	0.00	0.00	0.00	0.00	0.00	9.78	0.16
153.00	1014.00	1.80	54.10	1.30	3.67	3.88	6.07	3.09	7.99	0.00	0.00	0.00	0.00	0.00	0.00	9.61	0.16
166.00	1157.00	1.84	54.60	1.25	3.65	3.87	6.07	3.15	7.99	0.00	0.00	0.00	0.00	0.00	0.00	9.46	0.16
180.00	1300.00	1.89	55.06	1.20	3.62	3.87	6.07	3.21	7.99	0.00	0.00	0.00	0.00	0.00	0.00	9.32	0.16

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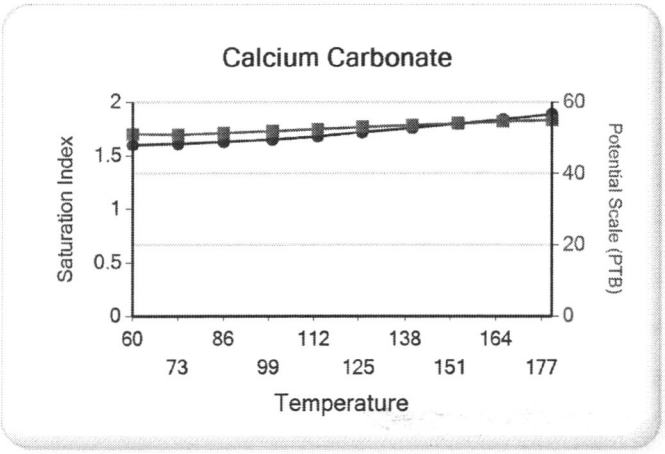
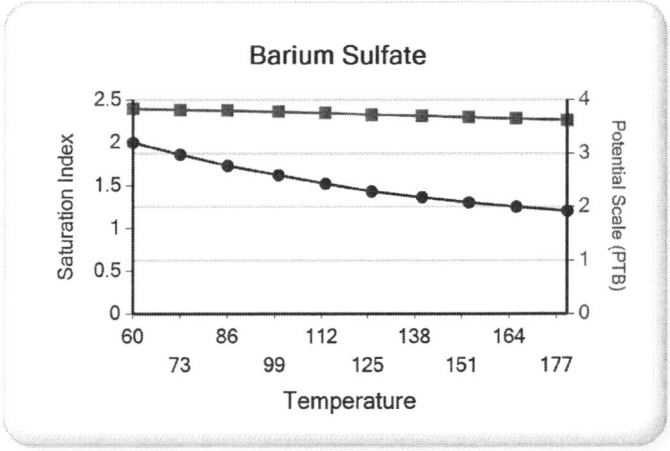
Water Analysis Report

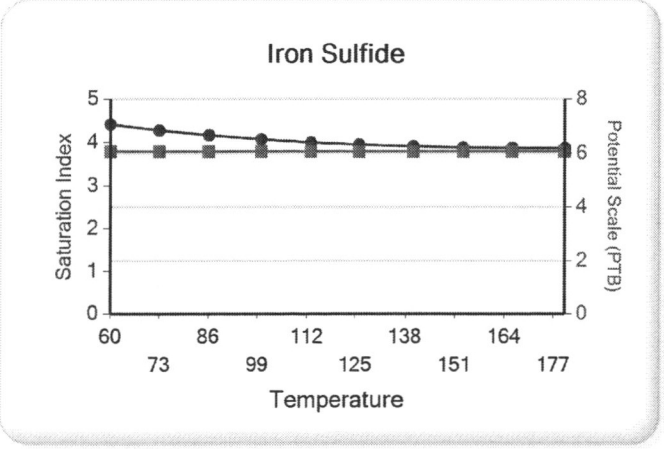
		Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
60.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.05	13.17	0.03	0.51	3.78	0.14	1.25	8.63	8.53
73.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.11	12.68	0.03	0.98	6.57	0.36	2.68	8.83	8.53
86.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.14	12.23	0.03	1.52	9.70	0.64	4.35	9.12	8.53
100.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.17	11.83	0.03	2.07	12.70	0.93	5.95	9.43	8.54
113.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.18	11.46	0.03	2.63	15.56	1.23	7.45	9.76	8.55
126.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	0.19	11.12	0.03	3.20	18.19	1.54	8.80	10.11	8.55
140.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	1.18	0.20	10.81	0.03	3.78	20.54	1.86	9.98	10.48	8.55
153.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	0.20	10.52	0.03	4.36	22.47	2.18	10.95	10.86	8.55
166.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	0.20	10.25	0.03	4.93	23.92	2.51	11.71	11.24	8.55
180.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57	0.20	10.01	0.03	5.51	24.86	2.83	12.27	11.64	8.55

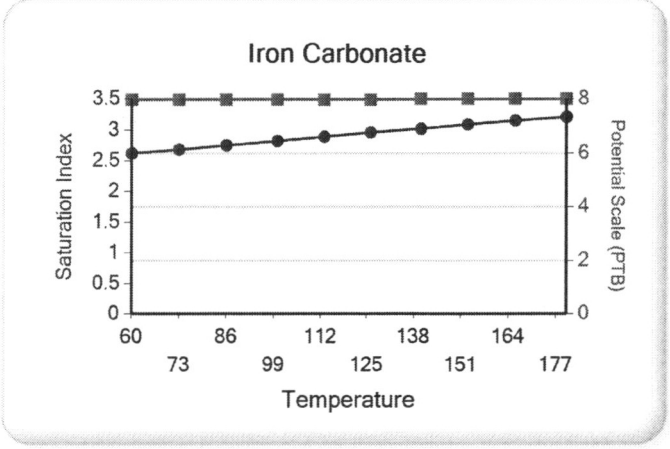
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

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









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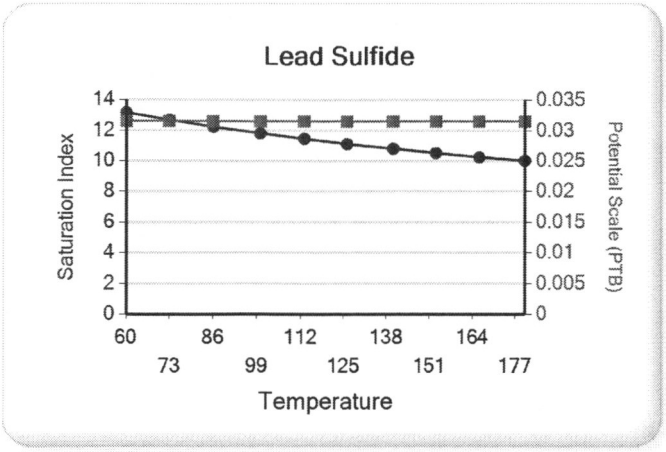
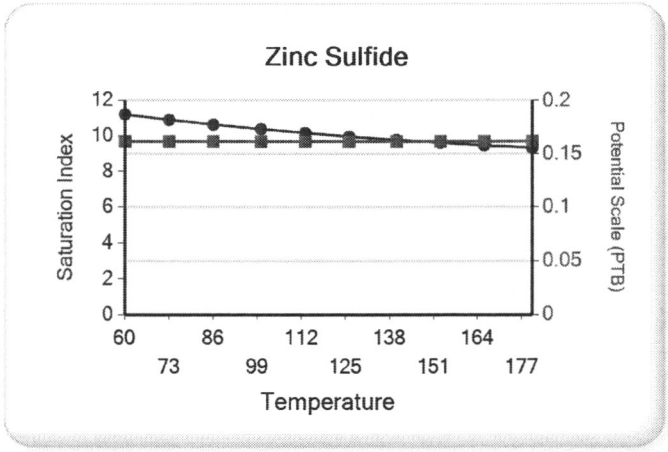
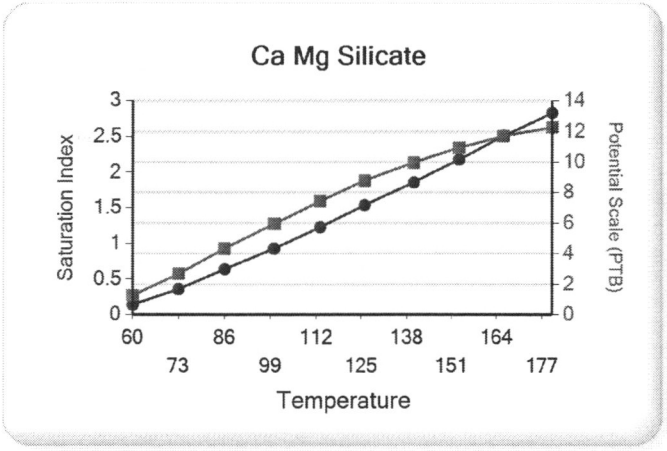
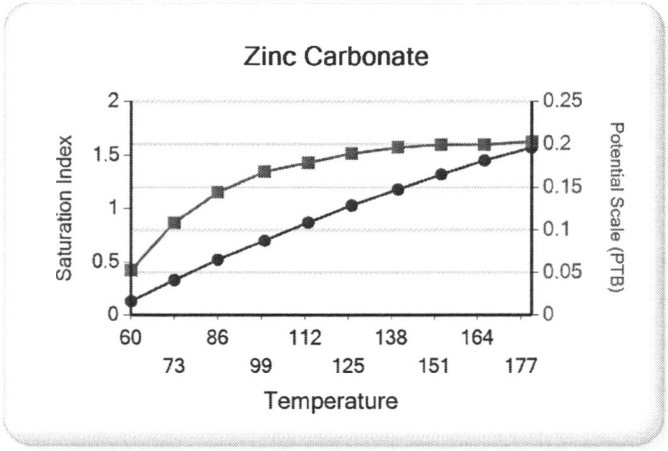
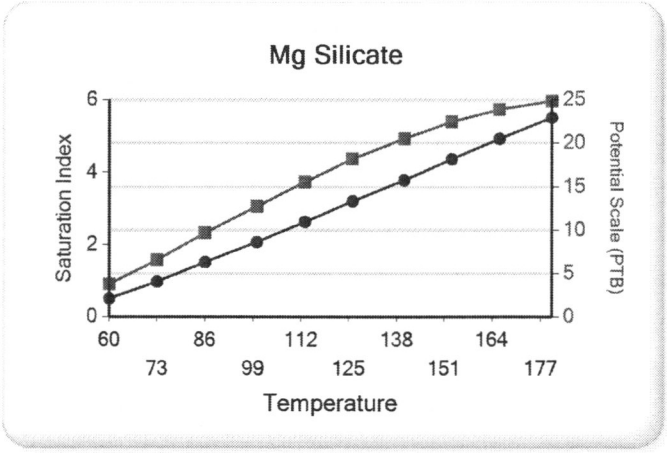
Water Analysis Report

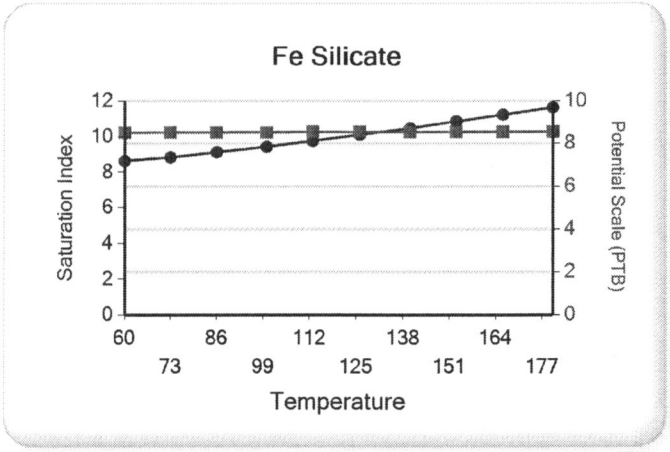











Fe Silicate
Saturation Index
Potential Scale (PTB)
Temperature
12
10
8
6
4
2
0
60
86
112
138
164
73
99
125
151
177

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

Ref: 8P2-W-GW

OCT 6 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 #19-03 (UT04390)
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 1710 psi, and the successfully run mechanical integrity test, with chart, on the Ute Tribal #19-03 (UT2736-04390) 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 2465 psig**, as modified by UIC Minor Permit Modification dated August 21, 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

Ref: 8P2-W-GW

OCT 6 1997

Scan under
UT20736-04390
Authorization to
Inject - Approved

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Director, Groundwater Program
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

10/7/97 CW 3145C

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- 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.

OCT 7 1997

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

Consult postmaster for fee.

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 164 014 375

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

7. Date of Delivery
OCT - 9 1997

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

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

8. Addressee's Address *(Only if requested and fee is paid)*
rec'd-LC
OCT 15 1997

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

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

10/7/97 CW 3145C
P 164 014 375

US Postal Service
Receipt for Certified Mail #1903
No Insurance Coverage Provided.
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Sent to Ms. Kathy Turner Geology/Petroleum Engineering Technician	
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Post Office, State, and ZIP Code P.O. Box 1839 Hutchinson, KS 67504-1839	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
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Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date	

PS Form **3800**, April 1995

CONCURRENCE COPY

Ref: 8P2-W-GW

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Director, Groundwater Program
Office of Pollution Prevention
State and Tribal Assistance

CEW 8P2-W-GW 9/24/97

8P2-W-GW 9/29/97

8P2-W-GW 10/6/97

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

FCD: September 23, 1997, Chuck W., F:\DATA\WP\PETROGLF\AUT-IN19.03