UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
http://www.epa.gov/region08

SEP 0 1 2015

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2600-8503

RETURN RECEIPT REQUESTED

Mr. Les Farnsworth, District Supervisor
Petroglyph Operating Company, Inc.
4116 W 3000 S Ioka Lane
P.O. Box 607
Roosevelt, Utah 84066

Re: Underground Injection Control (UIC)
Permission to Resume Injection
Ute Tribal 21-15 Well
EPA Permit ID# UT20736-04522
API # 43-013-31756
Antelope Creek Oil Field
Duchesne County, Utah

Dear Mr. Farnsworth:

On August 27, 2015, the Environmental Protection Agency (EPA) received information from Petroglyph Operating Company, Inc. on the above referenced well concerning the workover to address a loss of mechanical integrity and the followup mechanical integrity test (MIT) conducted on August 21, 2015. The data submitted shows that the well passed the required MIT. Therefore, pursuant to Title 40 of the Code of Federal Regulations Section 144.51(q)(2) (40 C.F.R. § 144.51(q)(2)), permission to resume injection is granted. Under continuous service, the next MIT will be due on or before August 21, 2020.

Pursuant to 40 C.F.R. § 144.52(a)(6), if the well is not used for a period of at least two (2) years ("temporary abandonment"), it shall be plugged and abandoned unless the EPA is notified and procedures are described to the EPA ensuring the well will not endanger underground sources of drinking water ("non-endangerment demonstration") during its continued temporary abandonment. A successful MIT is an acceptable non-endangerment demonstration and would be necessary every two (2) years the well continues in temporary abandonment.

Failure to comply with a UIC Permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. § 300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

	GREEN	BLUE	CBI
TAB		1	

If you have any questions concerning this letter, you may contact Gary Wang at (303) 312-6469. Please direct all correspondence to the attention of Gary Wang at Mail Code 8ENF-UFO.

Sincerely,

Arturo Palomares, Director
Water Technical Enforcement Program
Office of Enforcement, Compliance
and Environmental Justice

cc: Shaun Chapoose, Chairman, Uintah & Ouray Business Committee
Edred Secakuku, Vice-Chairman, Uintah & Ouray Business Committee
Reannin Tapoof, Executive Assistant, Uintah & Ouray Business Committee
Brad Hill, Utah Division of Oil, Gas and Mining

bcc: Jennifer Harris (8P-TA)
Kimberly Pardue-Welch (8ENF-W)
Gary Wang (8ENF-UFO)

Cc addresses:

Shaun Chapoose, Chairman
Uintah & Ouray Business Committee
P.O. Box 70
Fort Duchesne, Utah 84026

Edred Secakuku, Vice-Chairman
Uintah & Ouray Business Committee
P.O. Box 70
Fort Duchesne, Utah 84026

Reannin Tapoof, Executive Assistant
Uintah & Ouray Business Committee
P.O. Box 70
Fort Duchesne, Utah 84026

Brad Hill
Utah Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

SEP 0 2 2015

Mr. Les Farnsworth, District Supervisor
Petroglyph Operating Company, Inc.
4116 W 3000 S Ioka Lane
P.O. Box 607
Roosevelt, UT 84066

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☒ Agent ☐ Addressee

B. Received by (Printed Name) Rodrigo Jurado
C. Date of Delivery 9.8.15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7009 3410 0000 2600 8503

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com®

OFFICIAL USE

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Tot	

Postmark Here

Sent
Stree
or P(
City,

Mr. Les Farnsworth, District Supervisor
Petroglyph Operating Company, Inc.
4116 W 3000 S Ioka Lane
P.O. Box 607
Roosevelt, UT 84066

7009 3410 0000 2600 8503

PS Form 3800, August 2006 See Reverse for Instructions

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
http://www.epa.gov/region08

Ref: 8ENF-UFO CONCURRENCE COPY

CERTIFIED MAIL 7009-3410-0000-2600-8503

RETURN RECEIPT REQUESTED

Mr. Les Farnsworth, District Supervisor
Petroglyph Operating Company, Inc.
4116 W 3000 S Ioka Lane
P.O. Box 607
Roosevelt, Utah 84066

Re: Underground Injection Control (UIC)
Permission to Resume Injection
Ute Tribal 21-15 Well
EPA Permit ID# UT20736-04522
API # 43-013-31756
Antelope Creek Oil Field
Duchesne County, Utah

Dear Mr. Farnsworth:

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Pursuant to 40 C.F.R. § 144.52(a)(6), if the well is not used for a period of at least two (2) years ("temporary abandonment"), it shall be plugged and abandoned unless the EPA is notified and procedures are described to the EPA ensuring the well will not endanger underground sources of drinking water ("non-endangerment demonstration") during its continued temporary abandonment. A successful MIT is an acceptable non-endangerment demonstration and would be necessary every two (2) years the well continues in temporary abandonment.

Failure to comply with a UIC Permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. § 300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

CONCUR	Author + ext.	First initial + last name	[illegible]	[illegible]					
	[illegible]	Office code	8ENF-UFO	8ENF-W					
	6198	Date	8/26/15	8/31/15					

If you have any questions concerning this letter, you may contact Gary Wang at (303) 312-6469. Please direct all correspondence to the attention of Gary Wang at Mail Code 8ENF-UFO.

Sincerely,

Arturo Palomares, Director
Water Technical Enforcement Program
Office of Enforcement, Compliance
and Environmental Justice

cc: Shaun Chapoose, Chairman, Uintah & Ouray Business Committee
Edred Secakuku, Vice-Chairman, Uintah & Ouray Business Committee
Reannin Tapoof, Executive Assistant, Uintah & Ouray Business Committee
Brad Hill, Utah Division of Oil, Gas and Mining

bcc: Jennifer Harris (8P-TA)
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Uintah & Ouray Business Committee
P.O. Box 70
Fort Duchesne, Utah 84026

Brad Hill
Utah Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, Utah 84114

Inspection Report For Well: UT20736 - 04522

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: 1:22 am / pm

OPERATOR (only if different): _____

REPRESENTATIVE(S): Chad Stevinson

PRE-INSPECTION REVIEW

Petroglyph Operating Company, Inc

Well Name:	Ute Tribal 21-15		
Well Type:	Enhanced Recovery (2R)		
Operating Status:	AC (ACTIVE) as of 12/31/2002		
Oil Field:	Antelope Creek (Duchesne)		
Location:	SWSE S21 T5S R3W		
Indian Country:	X, Uintah and Ouray		
Last Inspection:	8/28/2012	***Allowable Inj Pressure:***	1900 /
Last MIT:	Pass 10/24/2011	***Annulus Pressure From Last MIT:***	1830

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 DB

OBSERVED VALUES:

Tubing Gauge:	[x] Yes [ ] No	Pressure: U: 1682 / 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

TAB	GREEN	BLUE	
		1	

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

UIC Entered
Date 12/17/13
Initial DR

Inspection Report For Well: UT20736 - 04522 (PAGE 2)

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

Comments and site conditions observed during inspection: _____

GPS: GPS File ID: _____

Signature of EPA Inspector(s): _____ _____ _____

☐ Data Entry ☐ Compliance Staff ☐ Hard Copy Filing

NOTICE OF INSPECTION

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

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

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

Firm Name: Petroglyph Operating Inc.

Firm Address: Roosevelt, UT, Antelope Creek Oil Field

REASON FOR INSPECTION:

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

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

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

Sarah Roberts
Inspector's Name & Title (Print)

Inspector's Signature

EPA R8 3560-1 (8-89)

Original - Regional Office Copy
Yellow Copy - Operator Copy

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

EPA

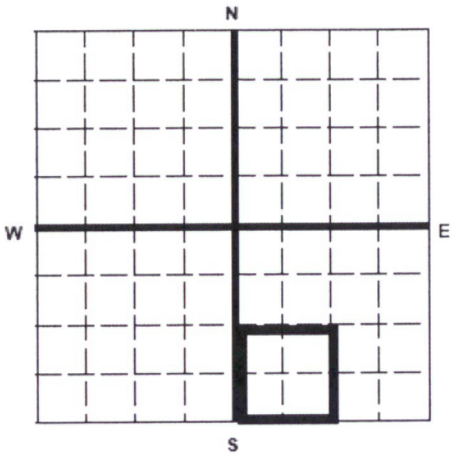
United States Environmental Protection Agency
Washington, DC 20460

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

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

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

Locate Well and Outline Unit on Section Plat - 640 Acres



State	County	Permit Number
Utah	Duchesne	UT2736-04522

Surface Location Description
___ 1/4 of 1/4 of SW 1/4 of SE 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 682 ft. frm (N/S) S Line of quarter section
and 3332 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 21-15

		INJECTION PRESSURE		TOTAL VOLUME INJECTED		TUBING -- CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January	16	1789	1823	2401		0	0
February	16	1835	1873	2254		0	0
March	16	1836	1836	2357		0	0
April	16	1840	1866	2169		0	0
May	16	1777	1866	1932		0	0
June	16	1807	1855	2187		0	0
July	16	1830	1846	2247		0	0
August	16	1812	1873	2172		0	0
September	16	1813	1839	2055		0	0
October	16	1824	1845	2184		0	0
November	16	1770	1826	1811		0	0
December	16	1803	1826	2186		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

GREEN BLUE CBI TAB 2

UIC Entered
Date 4/5/17
Initial DB

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 21-15 INJ, DUCHESNE**	Lab Tech:	**Kaitlyn Natelli**
Sample Point:	**Well Head**		
Sample Date:	**1/3/2017**		
Sample ID:	**WA-344970**		

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

Sample Specifics

Test Date:	1/9/2017
System Temperature 1 (°F):	60
System Pressure 1 (psig):	2000
System Temperature 2 (°F):	180
System Pressure 2 (psig):	50
Calculated Density (g/ml):	1.0003
pH:	7.81
Calculated TDS (mg/L):	4464.41
CO2 in Gas (%):	
Dissolved CO_2 (mg/L)):	52.00
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):	1428.86	Chloride (Cl):	1500.00
Potassium (K):	11.45	Sulfate (SO_4):	100.00
Magnesium (Mg):	22.21	Bicarbonate (HCO_3):	1342.00
Calcium (Ca):	36.25	Carbonate (CO_3):	
Strontium (Sr):	2.43	Hydroxide(HO):	
Barium (Ba):	5.12	Acetic Acid (CH_3COO)	
Iron (Fe):	3.27	Propionic Acid (C_2H_5COO)	
Zinc (Zn):	1.74	Butanoic Acid (C_3H_7COO)	
Lead (Pb):	0.04	Isobutyric Acid ($(CH_3)_2CHCOO$)	
Ammonia NH_3:		Fluoride (F):	
Manganese (Mn):	0.09	Bromine (Br):	
Aluminum (Al):	0.00	Silica (SiO_2):	10.95
Lithium (Li):	3.11	Calcium Carbonate ($CaCO_3$):	
Boron (B):	2.13	Phosphates (PO_4):	3.34
Silicon (Si):	5.12	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
180.00	50.00	1.27	28.16	1.12	2.81	3.50	1.81	2.41	2.37	0.00	0.00	0.00	0.00	0.00	0.00	10.28	0.91
167.00	267.00	1.12	26.70	1.14	2.82	3.41	1.81	2.24	2.36	0.00	0.00	0.00	0.00	0.00	0.00	10.33	0.91
153.00	483.00	1.02	25.47	1.17	2.84	3.38	1.80	2.11	2.36	0.00	0.00	0.00	0.00	0.00	0.00	10.44	0.91
140.00	700.00	0.93	24.10	1.21	2.86	3.36	1.80	1.99	2.35	0.00	0.00	0.00	0.00	0.00	0.00	10.56	0.91
127.00	917.00	0.84	22.59	1.26	2.88	3.36	1.80	1.86	2.34	0.00	0.00	0.00	0.00	0.00	0.00	10.70	0.91
113.00	1133.00	0.75	20.99	1.33	2.90	3.37	1.80	1.74	2.33	0.00	0.00	0.00	0.00	0.00	0.00	10.86	0.91
100.00	1350.00	0.67	19.35	1.41	2.93	3.40	1.80	1.62	2.32	0.00	0.00	0.00	0.00	0.00	0.00	11.04	0.91
87.00	1567.00	0.61	17.74	1.50	2.95	3.44	1.81	1.51	2.30	0.00	0.00	0.00	0.00	0.00	0.00	11.24	0.91
73.00	1783.00	0.54	16.20	1.61	2.97	3.50	1.81	1.39	2.27	0.00	0.00	0.00	0.00	0.00	0.00	11.46	0.91
60.00	2000.00	0.49	14.80	1.74	2.99	3.59	1.81	1.29	2.25	0.00	0.00	0.00	0.00	0.00	0.00	11.71	0.91

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

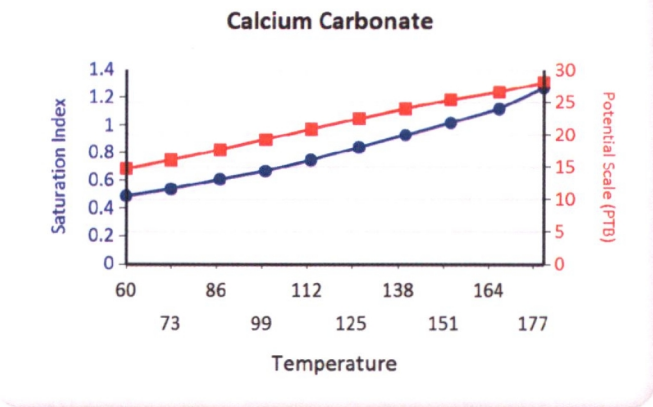
multi-chem®
A HALLIBURTON SERVICE

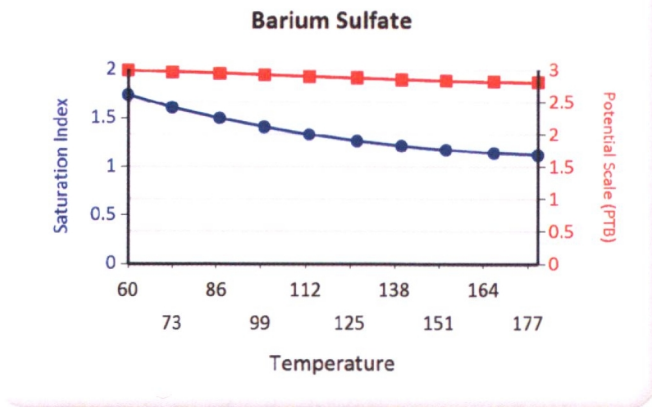
Water Analysis Report

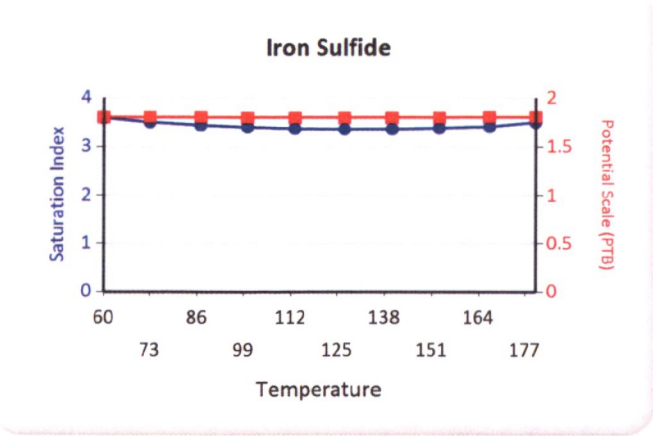
		Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
180.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	2.06	1.16	9.93	0.02	3.28	19.06	1.15	6.88	8.08	2.54
167.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	1.85	1.15	10.08	0.02	2.25	13.29	0.51	3.20	7.22	2.53
153.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00	1.66	1.14	10.30	0.02	1.48	8.73	0.05	0.43	6.61	2.52
140.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47	1.13	10.54	0.02	0.71	4.15	0.00	0.00	6.02	2.51
127.00	917.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27	1.10	10.81	0.02	0.00	0.00	0.00	0.00	5.44	2.49
113.00	1133.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	1.07	11.10	0.02	0.00	0.00	0.00	0.00	4.88	2.46
100.00	1350.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	1.00	11.43	0.02	0.00	0.00	0.00	0.00	4.33	2.42
87.00	1567.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.88	11.79	0.02	0.00	0.00	0.00	0.00	3.81	2.36
73.00	1783.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.68	12.18	0.02	0.00	0.00	0.00	0.00	3.30	2.27
60.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.32	12.61	0.02	0.00	0.00	0.00	0.00	2.83	2.16

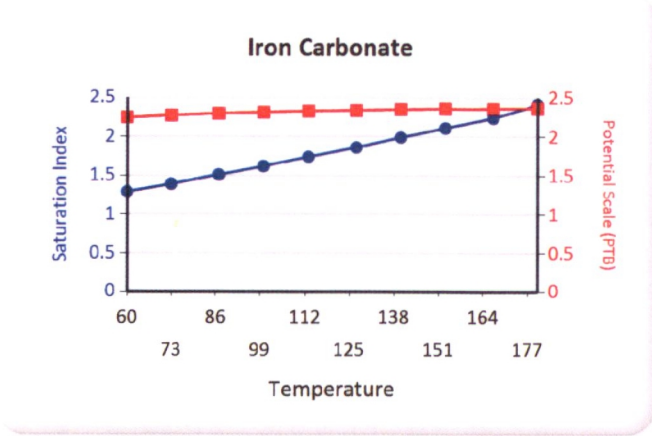
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

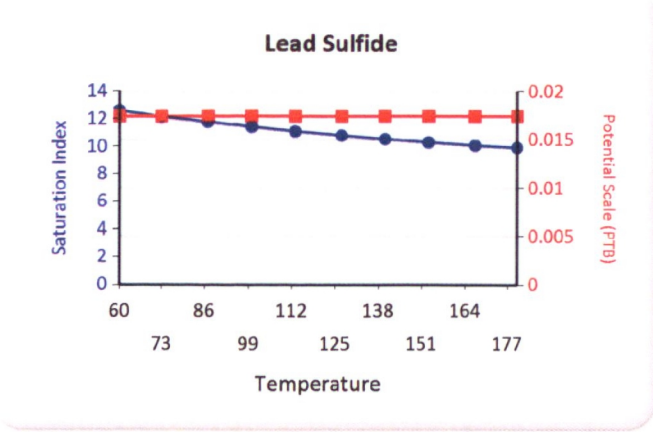
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Fe Silicate

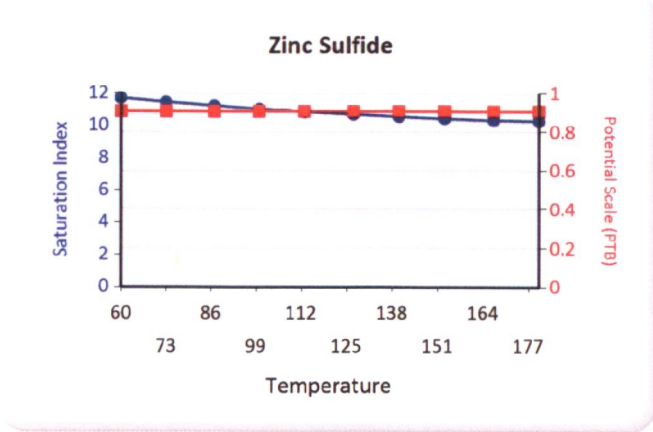


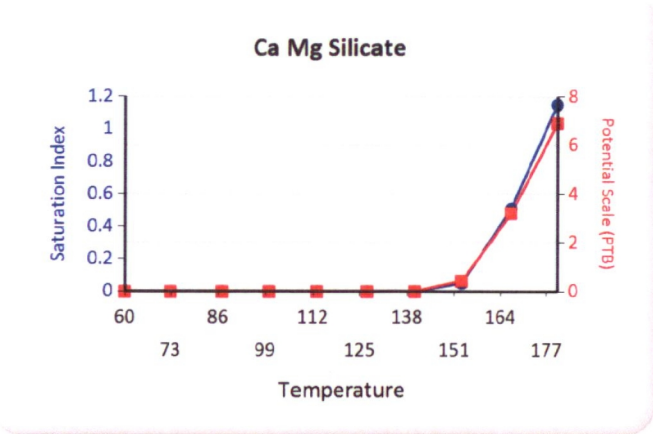


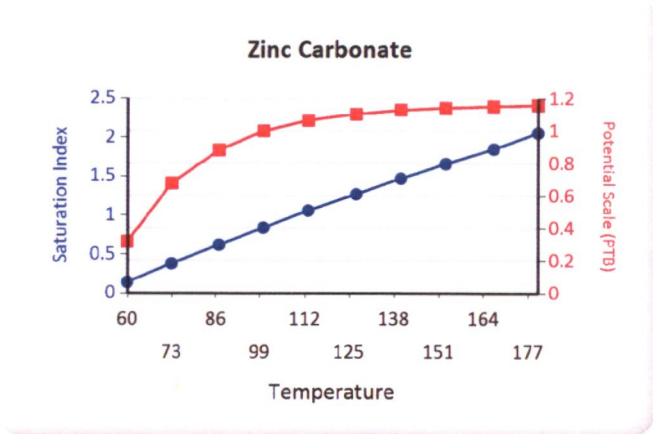


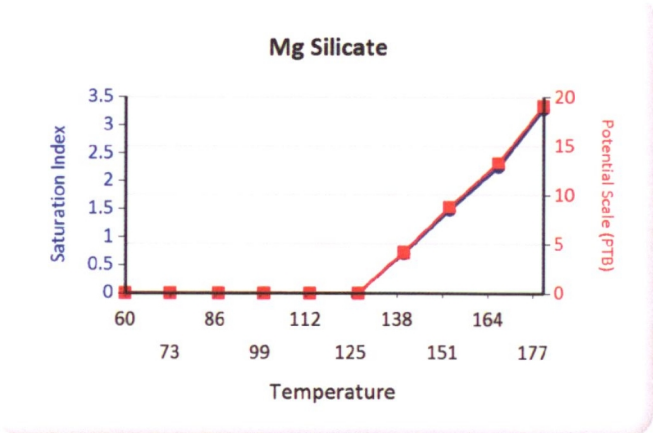


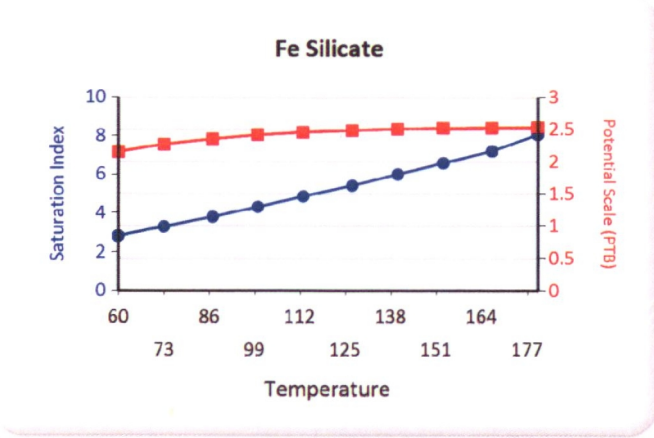

Lead Sulfide
Saturation Index
Potential Scale (PTB)
Temperature
60 86 112 138 164
73 99 125 151 177


Zinc Sulfide
Saturation Index
Potential Scale (PTB)
Temperature
60 86 112 138 164
73 99 125 151 177


Ca Mg Silicate
Saturation Index
Potential Scale (PTB)
Temperature
60 86 112 138 164
73 99 125 151 177


Zinc Carbonate
Saturation Index
Potential Scale (PTB)
Temperature
60 86 112 138 164
73 99 125 151 177


Mg Silicate
Saturation Index
Potential Scale (PTB)
Temperature
60 86 112 138 164
73 99 125 151 177


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

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

EPA

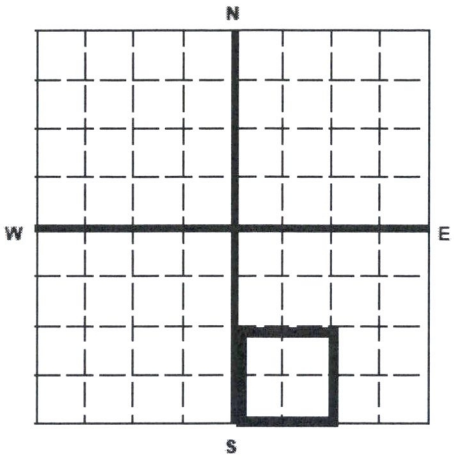
United States Environmental Protection Agency
Washington, DC 20460

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-~~04484~~ 04522

Surface Location Description
___ 1/4 of ___ 1/4 of SW 1/4 of SE 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 682 ft. frm (N/S) S Line of quarter section
and 3332 ft. from (E/W) W Line of quarter section.

U2 Entered
Date 3/2/16
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 21-15

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	1770	1838	2071		0	0
February	15	1825	1860	1970		0	0
March	15	1833	1856	2274		0	0
April	15	1820	1848	2088		0	0
May	15	1843	1866	2222		0	0
June	15	1491	1859	841		0	1780
July	15	962	1120	0		150	1150
August	15	283	792	0		0	2200
September	15	1024	1344	1840		0	0
October	15	1586	1755	2929		0	0
November	15	1805	1829	2962		0	0
December	15	1795	1859	2645		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)

Petroglyph Operating Company, Inc.
Annulus Pressure Cause and Mitigation Measures
EPA Annual Injection Report for Reporting Period 2015

Well Name: Ute Tribal 21-15

UIC Permit Number: UT2736-04522

API Number: 43-013-31756

Cause of Pressure and Mitigation Measures:

This well lost mechanical integrity on June 12, 2015. A rig was placed on the well from August 10th to 16th, 2015. A successful Mechanical Integrity Test was submitted on August 24, 2015. Injection resumed September 2, 2015.

Please see copy of attached notice and successful MIT test submitted to EPA on August 24, 2015.

PETROGLYPH

June 17, 2015

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

RE: Underground Injection Control (UIC)
Notice of Violation
Loss of Mechanical Integrity
EPA Permit #UT2736-04522
Well No. Ute Tribal 21-15
Antelope Creek Oil Field
Duchesne County, Utah

Dear Mr. Breffle:

Please be advised that on June 12, 2015 we lost Mechanical Integrity on the Ute Tribal 21-15 Injection Well. My direct number is 435-722-5302 if you wish to contact us.

Sincerely,
Petroglyph Operating Company, Inc.

Rodrigo Jurado
Regulatory Compliance Specialist

Mechanical Integrity Test
Tubing/Casing Annulus Pressure Test

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

EPA Witness: _____ Date: 8-21-15
Test conducted by: CHARLES STEVENSON
Others present: _____

Well Name: 21-15 Type: ER SWD **Status: AC TA UC**
Field: ANTELOPE CREEK
Location: 21-15 Sec: ____ T ____ N / S R ____ E / W County: DUCHESNE State: UT
Operator: PETROGLYPH ENERGY
Last MIT: ____ / ____ / ____ **Maximum Allowable Pressure:** _____ **PSIG**

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

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

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING		**PRESSURE RECORD**	
Initial Pressure	375 psig	psig	psig
End of test pressure	375 psig	psig	psig
CASING / TUBING ANNULUS		**PRESSURE RECORD**	
0 minutes	1900 psig	psig	psig
5 minutes	1900 psig	psig	psig
10 minutes	1900 psig	psig	psig
15 minutes	1900 psig	psig	psig
20 minutes	1900 psig	psig	psig
25 minutes	1900 psig	psig	psig
30 minutes	1900 psig	psig	psig
4 HOURS ~~minutes~~	1900 psig	psig	psig
____ minutes	psig	psig	psig
RESULT	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail

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

August 24, 2015

EPA
ATTN: Don Breffle
Region 8
1595 Wyncoop Street
Denver, CO 80202-8917

UIC Permit #UT2736-04522
Well ID: Ute Tribal 21-15
Ute Tribal No. 21-15, Duchesne County, Utah

Dear Mr. Breffle,

Please find enclosed the successful MIT test for the above referenced well. This test was performed to provide proof of integrity after we rigged up on the well to address a loss of mechanical integrity.

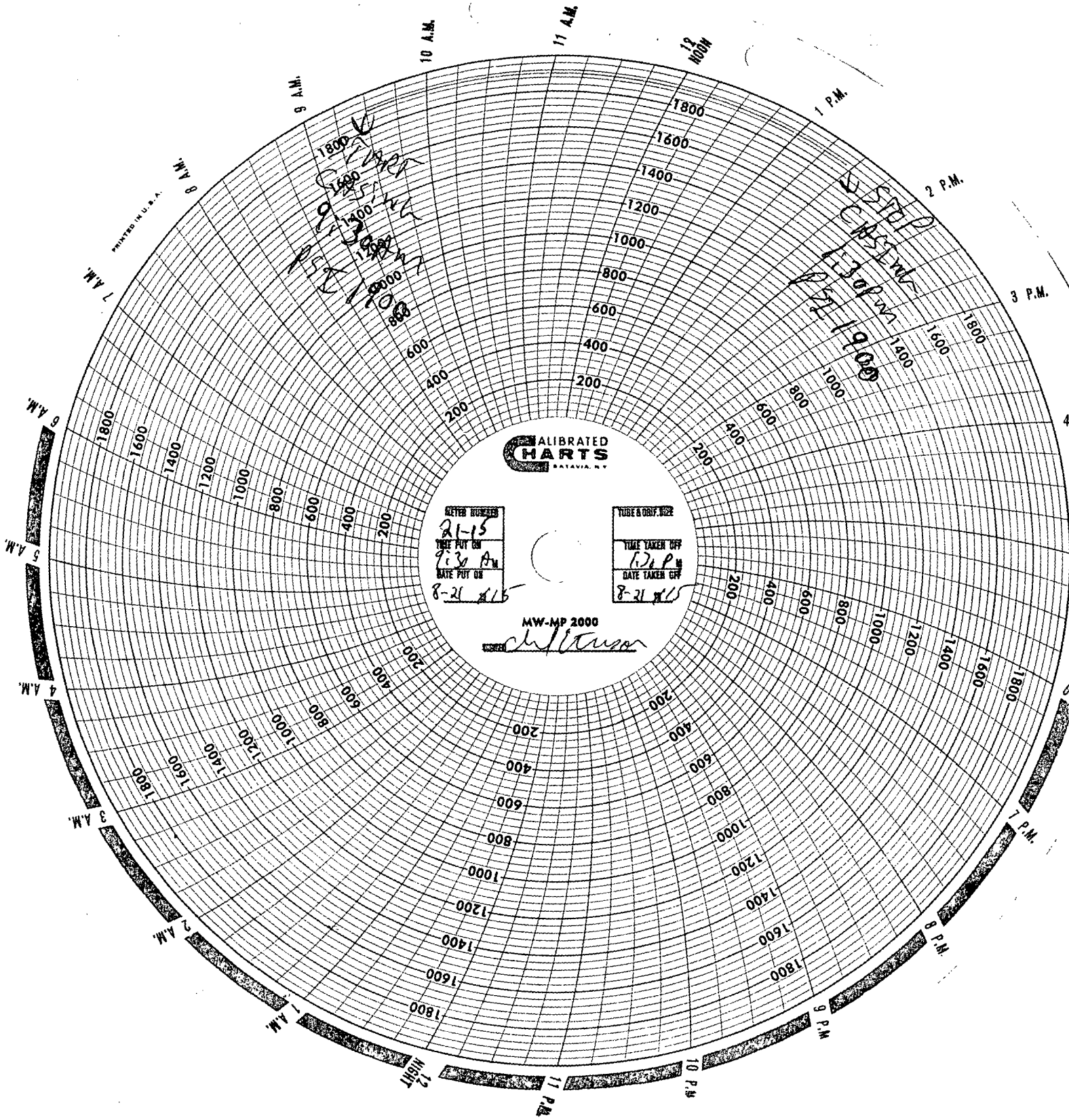
On 8/12/2015 we rigged up, released the packer and pulled the tubing. We scan logged the tubing on the way out. We laid down the whole string. We picked up new tubing, made a bit and scraper run to PBTD, 5690' then circulated and cleaned the well. We then ran in with a new Arrowset 1 Packer and new tubing, breaking and doping all joints on the way in. We pressure tested the tubing and successfully performed an MIT on the casing to 1900 psi with no loss.

Please let us know if there is a need for further action on our part and we will immediately comply. My direct number is 435-722-5302 if you wish to contact us.

Sincerely,

Rodrigo Jurado
Regulatory Compliance Spc

Encl: MIT


CALIBRATED
CHARTS
BATAVIA, N.Y.
MW-MP 2000
PRINTED IN U.S.A.
METER NUMBER
21-15
TIME PUT ON
9:30 AM
DATE PUT ON
8-21 2015
TUBE & ORIF. SIZE
TIME TAKEN OFF
1:30 PM
DATE TAKEN OFF
8-21 2015
12 NOON
1 P.M.
2 P.M.
3 P.M.
4
5 P.M.
6 P.M.
7 P.M.
8 P.M.
9 P.M.
10 P.M.
11 P.M.
12 NIGHT
1 A.M.
2 A.M.
3 A.M.
4 A.M.
5 A.M.
6 A.M.
7 A.M.
8 A.M.
9 A.M.
10 A.M.
11 A.M.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
http://www.epa.gov/region08

SEP 0 1 2015

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3410-0000-2600-8503

RETURN RECEIPT REQUESTED

Mr. Les Farnsworth, District Supervisor
Petroglyph Operating Company, Inc.
4116 W 3000 S Ioka Lane
P.O. Box 607
Roosevelt, Utah 84066

Re: Underground Injection Control (UIC)
Permission to Resume Injection
Ute Tribal 21-15 Well
EPA Permit ID# UT20736-04522
API # 43-013-31756
Antelope Creek Oil Field
Duchesne County, Utah

Dear Mr. Farnsworth:

On August 27, 2015, the Environmental Protection Agency (EPA) received information from Petroglyph Operating Company, Inc. on the above referenced well concerning the workover to address a loss of mechanical integrity and the followup mechanical integrity test (MIT) conducted on August 21, 2015. The data submitted shows that the well passed the required MIT. Therefore, pursuant to Title 40 of the Code of Federal Regulations Section 144.51(q)(2) (40 C.F.R. § 144.51(q)(2)), permission to resume injection is granted. Under continuous service, the next MIT will be due on or before August 21, 2020.

Pursuant to 40 C.F.R. § 144.52(a)(6), if the well is not used for a period of at least two (2) years ("temporary abandonment"), it shall be plugged and abandoned unless the EPA is notified and procedures are described to the EPA ensuring the well will not endanger underground sources of drinking water ("non-endangerment demonstration") during its continued temporary abandonment. A successful MIT is an acceptable non-endangerment demonstration and would be necessary every two (2) years the well continues in temporary abandonment.

Failure to comply with a UIC Permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. § 300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Gary Wang at (303) 312-6469. Please direct all correspondence to the attention of Gary Wang at Mail Code 8ENF-UFO.

Sincerely,

Arturo Palomares, Director
Water Technical Enforcement Program
Office of Enforcement, Compliance
and Environmental Justice

cc: Shaun Chapoose, Chairman, Uintah & Ouray Business Committee
Edred Secakuku, Vice-Chairman, Uintah & Ouray Business Committee
Reannin Tapoof, Executive Assistant, Uintah & Ouray Business Committee
Brad Hill, Utah Division of Oil, Gas and Mining

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

multi-chem®
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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 21-15 INJ, DUCHESNE**	Lab Tech:	**Michele Pike**
Sample Point:	**Well Head**		
Sample Date:	**1/6/2016**		
Sample ID:	**WA-327661**		

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

Sample Specifics

Test Date:	1/13/2016
System Temperature 1 (°F):	60
System Pressure 1 (psig):	2000
System Temperature 2 (°F):	180
System Pressure 2 (psig):	50
Calculated Density (g/ml):	1.0025
pH:	7.10
Calculated TDS (mg/L):	7418.87
CO2 in Gas (%):	
Dissolved CO_2 (mg/L)):	80.00
H_2S in Gas (%):	
H2S in Water (mg/L):	5.00
Tot. SuspendedSolids(mg/L):	
Corrosivity(LanglierSat.Indx)	0.00
Alkalinity:	

Notes:

Analysis @ Properties in Sample Specifics

Cations	*mg/L*	*Anions*	*mg/L*
Sodium (Na):	2399.33	Chloride (Cl):	3500.00
Potassium (K):	2.20	Sulfate (SO_4):	480.00
Magnesium (Mg):	80.33	Bicarbonate (HCO_3):	732.00
Calcium (Ca):	189.30	Carbonate (CO_3):	
Strontium (Sr):	5.11	Acetic Acid (CH_3COO)	
Barium (Ba):	0.55	Propionic Acid (C_2H_5COO)	
Iron (Fe):	1.84	Butanoic Acid (C_3H_7COO)	
Zinc (Zn):	1.19	Isobutyric Acid ($(CH_3)_2CHCOO$)	
Lead (Pb):	0.61	Fluoride (F):	
Ammonia NH_3:		Bromine (Br):	
Manganese (Mn):	0.05	Silica (SiO_2):	26.36
Aluminum (Al):	0.11	Calcium Carbonate ($CaCO_3$):	
Lithium (Li):	0.70	Phosphates (PO_4):	3.21
Boron (B):	0.47	Oxygen (O_2):	
Silicon (Si):	12.32		

(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	0.95	72.87	0.53	0.23	1.63	0.98	1.03	1.21	0.00	0.00	0.00	0.00	0.00	0.00	8.57	0.62
167.00	267.00	0.79	60.49	0.55	0.23	1.52	0.97	0.85	1.14	0.00	0.00	0.00	0.00	0.00	0.00	8.59	0.62
153.00	483.00	0.68	52.42	0.58	0.24	1.47	0.97	0.72	1.07	0.00	0.00	0.00	0.00	0.00	0.00	8.69	0.62
140.00	700.00	0.58	44.60	0.62	0.25	1.44	0.97	0.59	0.98	0.00	0.00	0.00	0.00	0.00	0.00	8.79	0.62
127.00	917.00	0.48	37.13	0.67	0.26	1.42	0.96	0.46	0.86	0.00	0.00	0.00	0.00	0.00	0.00	8.92	0.62
113.00	1133.00	0.39	30.09	0.73	0.27	1.41	0.96	0.33	0.70	0.00	0.00	0.00	0.00	0.00	0.00	9.06	0.62
100.00	1350.00	0.31	23.57	0.81	0.28	1.41	0.96	0.20	0.49	0.00	0.00	0.00	0.00	0.00	0.00	9.21	0.62
87.00	1567.00	0.23	17.63	0.90	0.29	1.43	0.97	0.08	0.22	0.00	0.00	0.00	0.00	0.00	0.00	9.39	0.62
73.00	1783.00	0.17	12.31	1.01	0.29	1.47	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.58	0.62
60.00	2000.00	0.10	7.64	1.13	0.30	1.52	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.80	0.62

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

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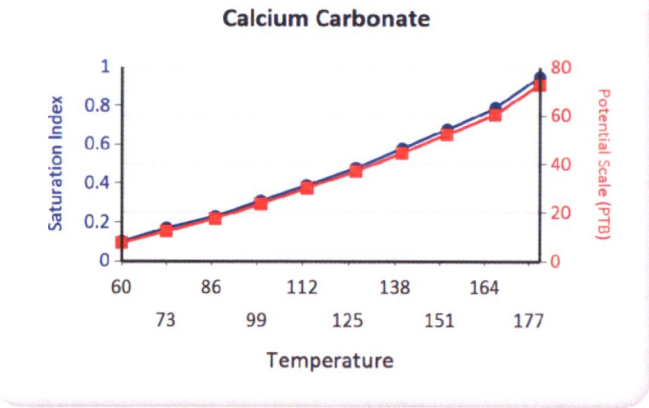
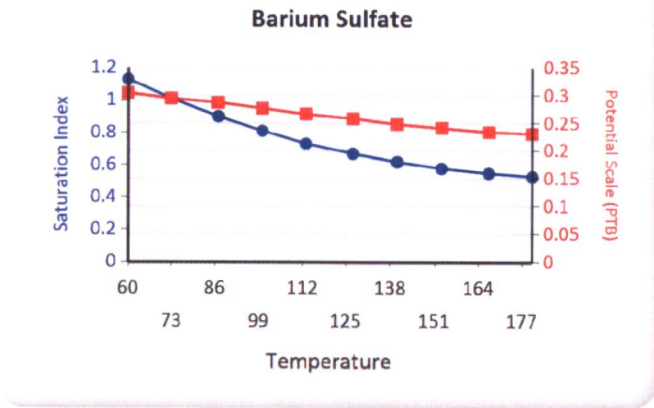
Water Analysis Report

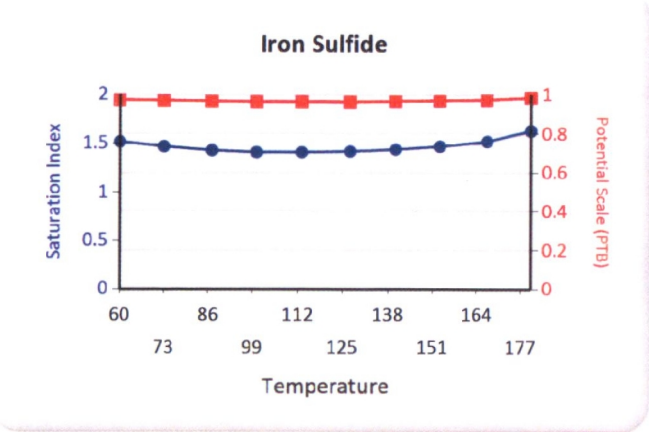
		Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
180.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.68	9.56	0.25	1.55	19.14	0.43	5.24	3.69	1.34
167.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	0.60	9.69	0.25	0.40	4.74	0.00	0.00	2.70	1.24
153.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.49	9.89	0.25	0.00	0.00	0.00	0.00	2.06	1.11
140.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.32	10.12	0.25	0.00	0.00	0.00	0.00	1.42	0.92
127.00	917.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	10.37	0.25	0.00	0.00	0.00	0.00	0.80	0.62
113.00	1133.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.65	0.25	0.00	0.00	0.00	0.00	0.19	0.18
100.00	1350.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.95	0.25	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	11.28	0.25	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	11.65	0.25	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	12.05	0.25	0.00	0.00	0.00	0.00	0.00	0.00

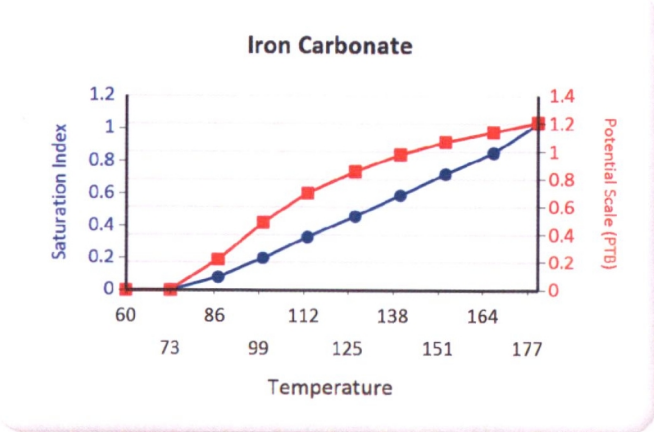
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

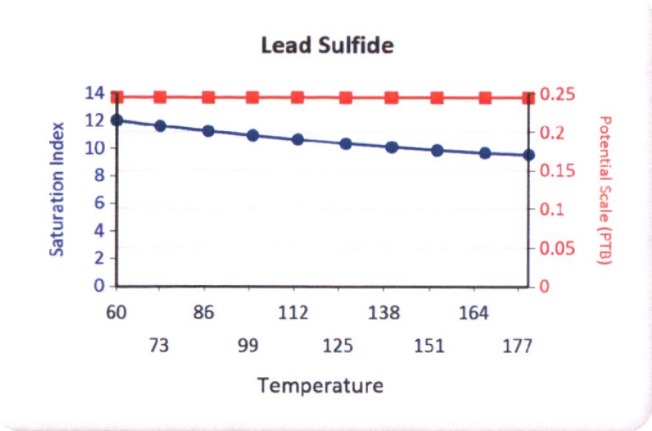
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Zinc Sulfide Lead Sulfide

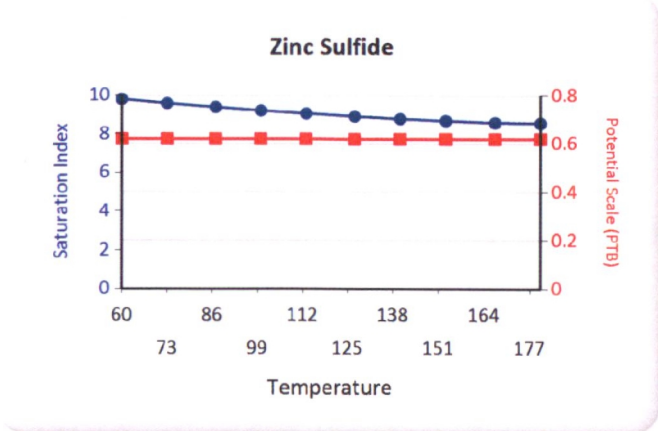









Lead Sulfide
Saturation Index
Potential Scale (PTB)
Temperature
60 86 112 138 164
73 99 125 151 177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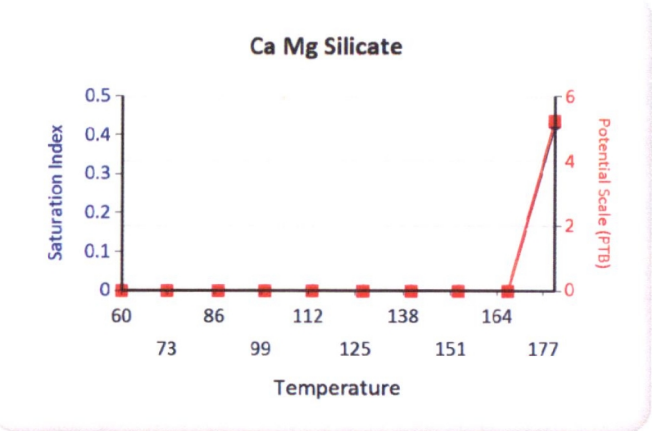
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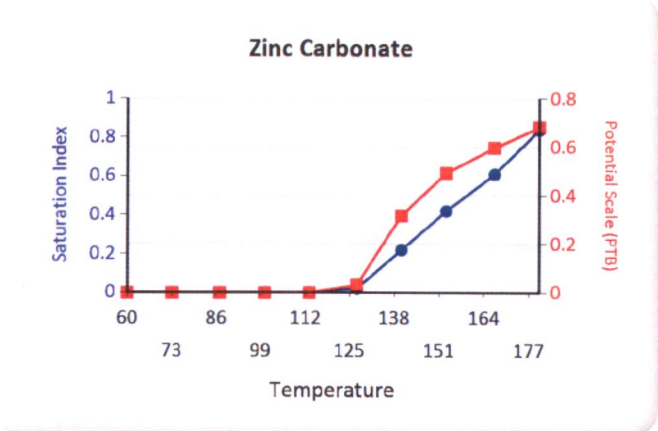
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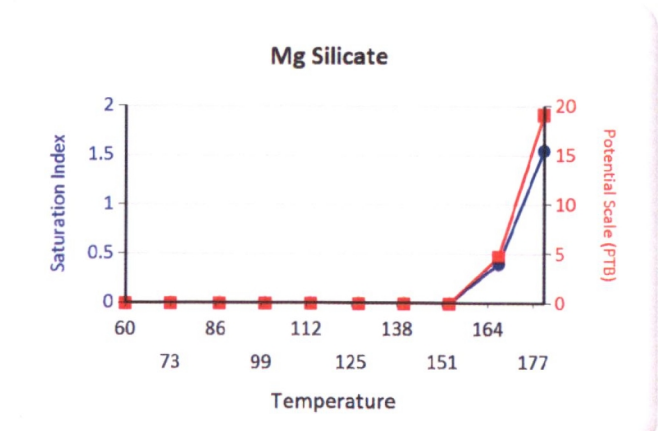
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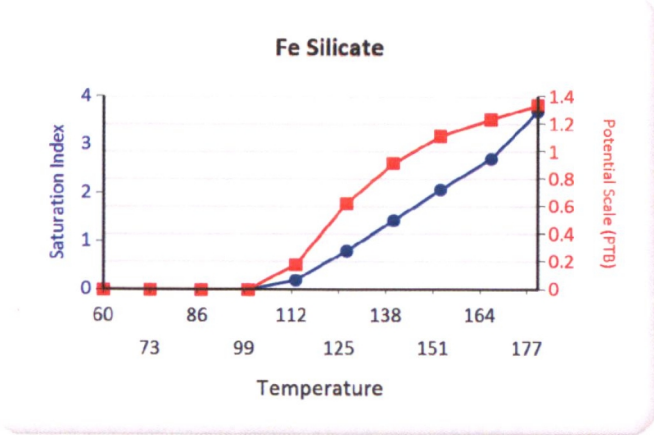
60 86 112 138 164
73 99 125 151 177


Fe Silicate
Saturation Index
Potential Scale (PTB)
Temperature
0
1
2
3
4
0
0.2
0.4
0.6
0.8
1
1.2
1.4
60
73
86
99
112
125
138
151
164
177

PETROGLYPH EXECUTIVE OFFICES

February 10, 2016

RECEIVED
FEB 17 2016
Office of Enforcement, Compliance
and Environmental Justice (UFO)

Underground Injection Control Enforcement
U.S. Environmental Protection Agency
Atten: Don Breffle / Gary Wang
1595 Wynkoop St.
Denver, CO 80202

Mr. Breffle and Mr. Wang:

Please find enclosed the following annual reporting materials from Petroglyph Operating Company, Inc., for its Antelope Creek Water Flood Program, Permit Number UT2736-00000:

- Annual Disposal/Injection Well Monitoring Report for each of the 111 wells
- Related supporting documentation, to include copies of notices and successful Mechanical Integrity Tests
- Water Analysis reports

During 2015, POCI experienced a loss of mechanical integrity in the following wells:

- Ute Tribal 05-08
- Ute Tribal 05-10
- Ute Tribal 19-11
- Ute Tribal 21-04
- Ute Tribal 21-15
- Ute Tribal 29-12
- Ute Tribal 33-14D3

All wells were subsequently repaired and passed a Mechanical Integrity Test. Approvals were received for all wells.

Maximum Allowable Injection Pressure was exceeded for the Ute Tribal 16-07 (October 2015), Ute Tribal 18-14 (August 2015), Ute Tribal 29-12 (May-June 2015) as a result of performing step rate tests.

Thank you for your time. If any questions, please contact me at the following number: (208) 685-9711.

Best Regards,

Nicole Colby

Nicole Colby
Manager, Land & Regulatory Compliance; Petroglyph Energy, Inc.

PETROGLYPH OPERATING COMPANY, INC.

adway Avenue, Suite 500 • P.O. Box 70019 • Boise, Idaho 83707 • (208) 685-7600 • Fax: (208) 685-7605 • www.petroglyphenergy.com

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

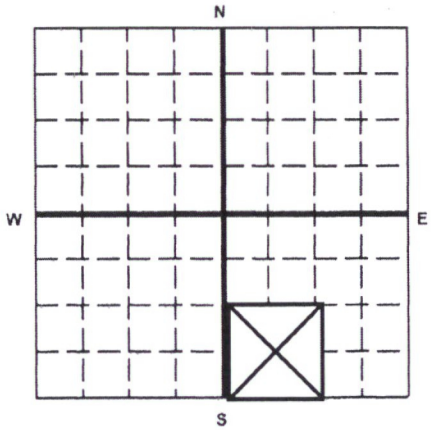
EPA

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	UT2736-04522

Surface Location Description

____ 1/4 of ____ 1/4 of SW 1/4 of SE 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 682 ft. frm (N/S) S Line of quarter section and 3332 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 21-15

		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	1831	1855	2418		0	0
February	14	1853	1864	2275		0	0
March	14	1805	1854	2313		0	0
April	14	1820	1851	2389		0	0
May	14	1822	1850	2376		0	0
June	14	1825	1853	2265		0	0
July	14	1815	1850	2224		0	0
August	14	1831	1846	2162		0	0
September	14	1736	1852	1987		0	0
October	14	1832	1842	2219		0	0
November	14	1847	1857	2185		0	0
December	14	1834	1856	2184		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 3/31/15
Initial bw

	GREEN	BLUE	CBI
TAB		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 OPERATING CO INC - EBUS**	Sales Rep:	**James Patry**
Well Name:	**UTE TRIBAL 21-15 INJ, DUCHESNE**	Lab Tech:	**Gary Winegar**
Sample Point:	**WELLHEAD**		
Sample Date:	**1/7/2015**		
Sample ID:	**WA-297520**		

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):	1.0017
pH:	7.60
Calculated TDS (mg/L):	6804.41
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):	1587.14	Chloride (Cl):	3000.00
Potassium (K):	29.96	Sulfate (SO_4):	288.00
Magnesium (Mg):	50.11	Bicarbonate (HCO_3):	1708.00
Calcium (Ca):	93.55	Carbonate (CO_3):	
Strontium (Sr):	4.85	Acetic Acid (CH_3COO)	
Barium (Ba):	5.22	Propionic Acid (C_2H_5COO)	
Iron (Fe):	3.68	Butanoic Acid (C_3H_7COO)	
Zinc (Zn):	2.52	Isobutyric Acid ($(CH_3)_2CHCOO$)	
Lead (Pb):	0.05	Fluoride (F):	
Ammonia NH_3:		Bromine (Br):	
Manganese (Mn):	0.07	Silica (SiO_2):	31.26

Notes:
B=3.82 Al=.02 Li=.8

(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	62.58	1.98	3.08	2.75	2.02	1.60	2.60	0.00	0.00	0.00	0.00	0.00	0.00	10.67	1.32
88.00	157.00	1.05	60.37	1.90	3.07	2.61	2.02	1.58	2.60	0.00	0.00	0.00	0.00	0.00	0.00	10.43	1.32
97.00	300.00	1.08	61.60	1.82	3.06	2.57	2.02	1.64	2.61	0.00	0.00	0.00	0.00	0.00	0.00	10.29	1.32
106.00	443.00	1.11	62.87	1.75	3.05	2.54	2.02	1.70	2.62	0.00	0.00	0.00	0.00	0.00	0.00	10.16	1.32
115.00	585.00	1.15	64.16	1.68	3.05	2.52	2.02	1.77	2.63	0.00	0.00	0.00	0.00	0.00	0.00	10.04	1.32
124.00	728.00	1.18	65.46	1.63	3.04	2.50	2.02	1.83	2.64	0.00	0.00	0.00	0.00	0.00	0.00	9.92	1.32
133.00	871.00	1.22	66.75	1.57	3.02	2.50	2.02	1.89	2.64	0.00	0.00	0.00	0.00	0.00	0.00	9.82	1.32
142.00	1014.00	1.27	68.02	1.53	3.02	2.50	2.02	1.95	2.64	0.00	0.00	0.00	0.00	0.00	0.00	9.72	1.32
151.00	1157.00	1.31	69.25	1.49	3.01	2.50	2.02	2.01	2.65	0.00	0.00	0.00	0.00	0.00	0.00	9.63	1.32
160.00	1300.00	1.36	70.44	1.45	3.00	2.51	2.02	2.07	2.65	0.00	0.00	0.00	0.00	0.00	0.00	9.55	1.32

		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	0.68	1.34	11.24	0.02	0.00	0.00	0.00	0.00	3.60	2.64
88.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74	1.38	10.89	0.02	0.00	0.00	0.00	0.00	3.42	2.60
97.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.88	1.47	10.64	0.02	0.00	0.00	0.00	0.00	3.73	2.66
106.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01	1.52	10.41	0.02	0.00	0.00	0.00	0.00	4.05	2.70
115.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	1.57	10.19	0.02	0.00	0.00	0.00	0.00	4.38	2.74
124.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26	1.60	9.99	0.02	0.08	0.81	0.00	0.00	4.73	2.77
133.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.62	9.80	0.02	0.58	5.47	0.00	0.00	5.08	2.79
142.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.64	9.62	0.02	1.08	10.27	0.00	0.16	5.45	2.81
151.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	1.61	1.65	9.45	0.02	1.58	15.09	0.30	2.83	5.82	2.82
160.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72	1.66	9.29	0.02	2.09	19.76	0.59	5.43	6.20	2.83

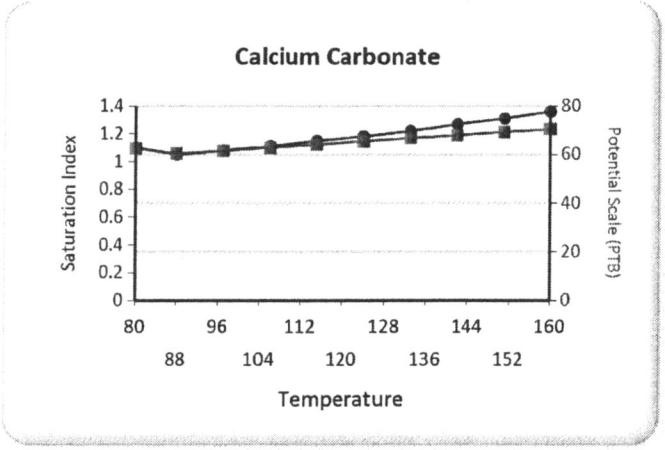
Multi-Chem Analytical Laboratory
1553 East Highway 40
Vernal, UT 84078

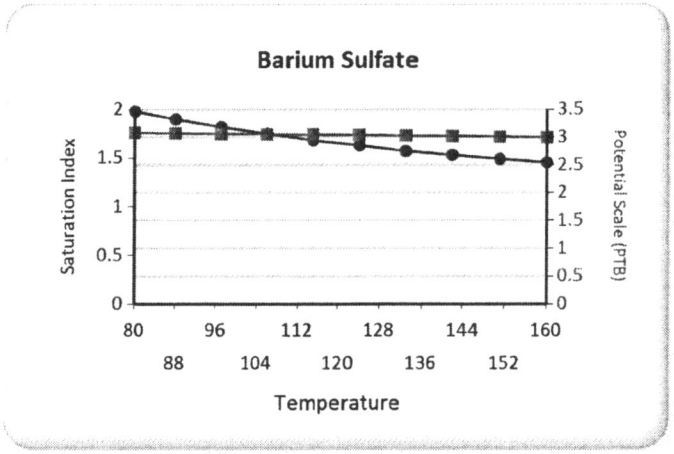
multi-chem®
A HALLIBURTON SERVICE

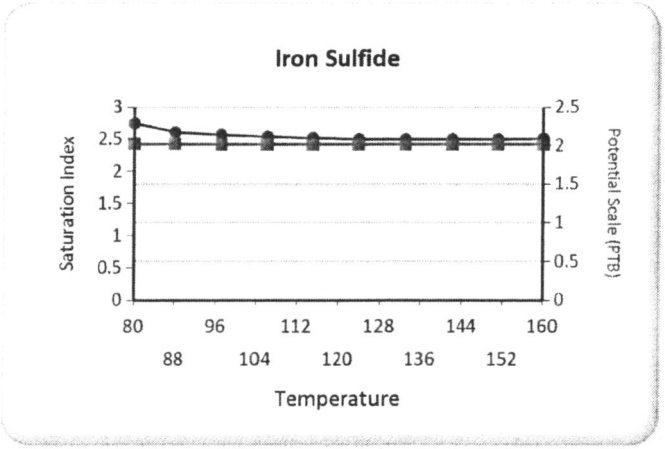
Water Analysis Report

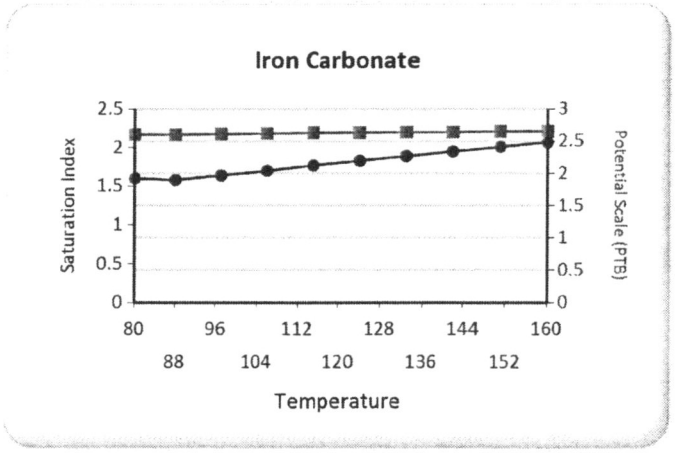
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Fe Silicate

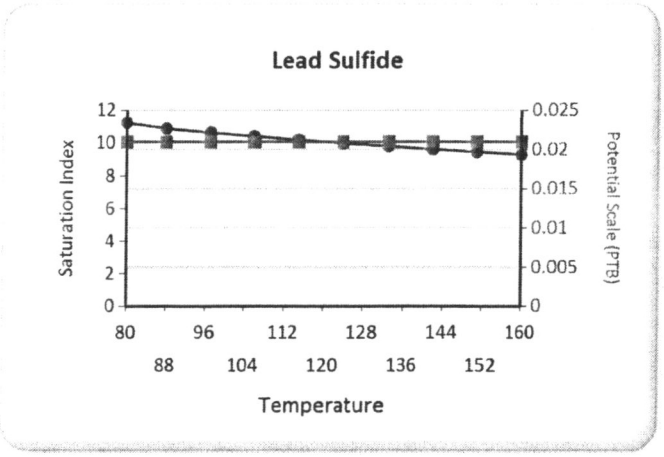
These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

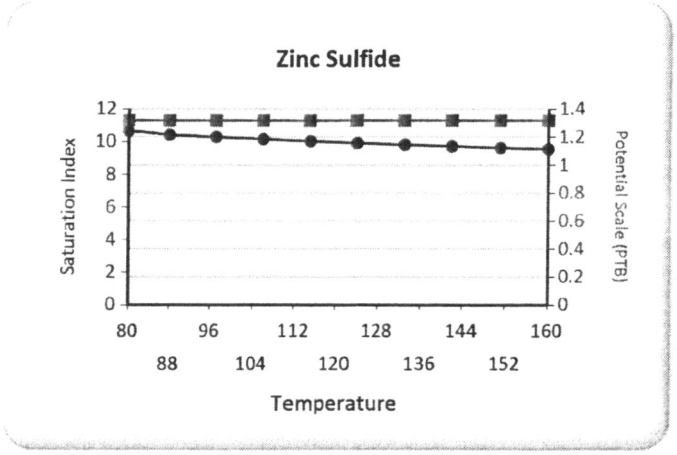


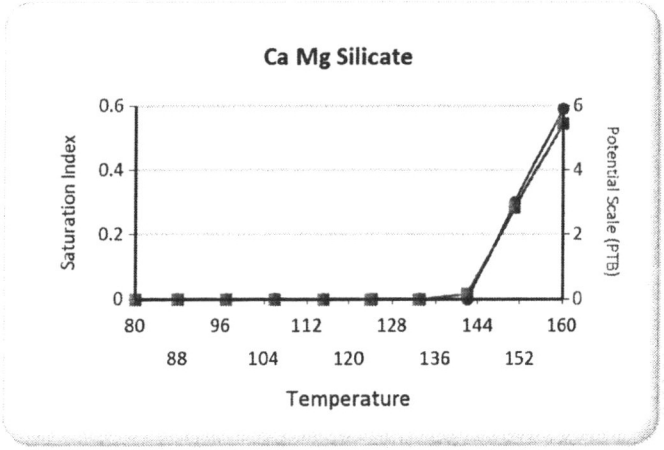


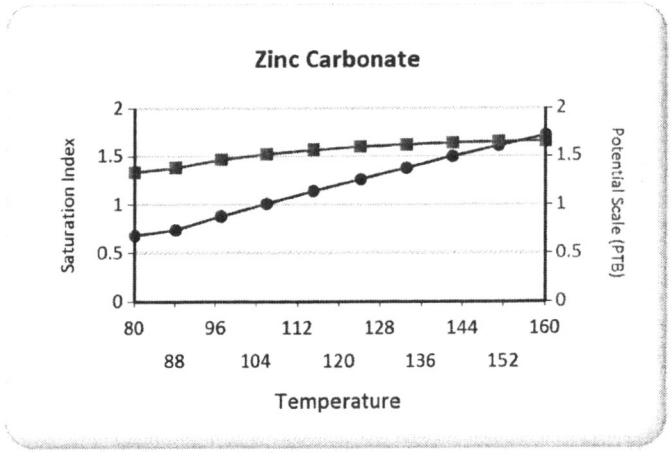


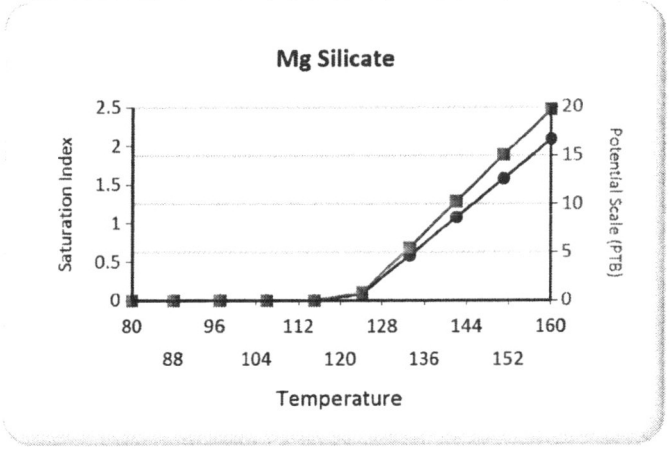


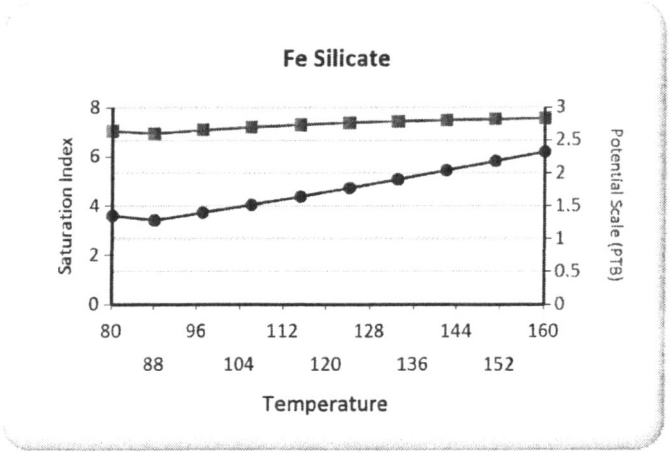





Ca Mg Silicate
Saturation Index
Potential Scale (PTB)
Temperature
0.6
0.4
0.2
0
6
4
2
0
80
96
112
128
144
160
88
104
120
136
152


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


Mg Silicate
Saturation Index
Potential Scale (PTB)
Temperature
2.5
2
1.5
1
0.5
0
20
15
10
5
0
80
96
112
128
144
160
88
104
120
136
152


Fe Silicate
Saturation Index
Potential Scale (PTB)
Temperature
8
6
4
2
0
3
2.5
2
1.5
1
0.5
0
80
96
112
128
144
160
88
104
120
136
152

RECEIVED

AUG 27 2015

Office of Enforcement, Compliance
and Environmental Justice (UFO)

August 24, 2015

EPA
ATTN: Don Breffle
Region 8
1595 Wyncoop Street
Denver, CO 80202-8917

UIC Permit #UT2736-04522
Well ID: Ute Tribal 21-15
Ute Tribal No. 21-15, Duchesne County, Utah

Dear Mr. Breffle,

Please find enclosed the successful MIT test for the above referenced well. This test was performed to provide proof of integrity after we rigged up on the well to address a loss of mechanical integrity.

On 8/12/2015 we rigged up, released the packer and pulled the tubing. We scan logged the tubing on the way out. We laid down the whole string. We picked up new tubing, made a bit and scraper run to PBTD, 5690' then circulated and cleaned the well. We then ran in with a new Arrowset 1 Packer and new tubing, breaking and doping all joints on the way in. We pressure tested the tubing and successfully performed an MIT on the casing to 1900 psi with no loss.

Please let us know if there is a need for further action on our part and we will immediately comply. My direct number is 435-722-5302 if you wish to contact us.

Sincerely,

Rodrigo Jurado
Regulatory Compliance Spc

Encl: MIT

TAB	GREEN	BLUE	
		2	

U2 Entered
Date 8/27/15
Initial DB

Mechanical Integrity Test
Tubing/Casing Annulus Pressure Test

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

EPA Witness: _____ Date: 8 / 21 / 15
Test conducted by: CHADS STEVENSON
Others present: _____

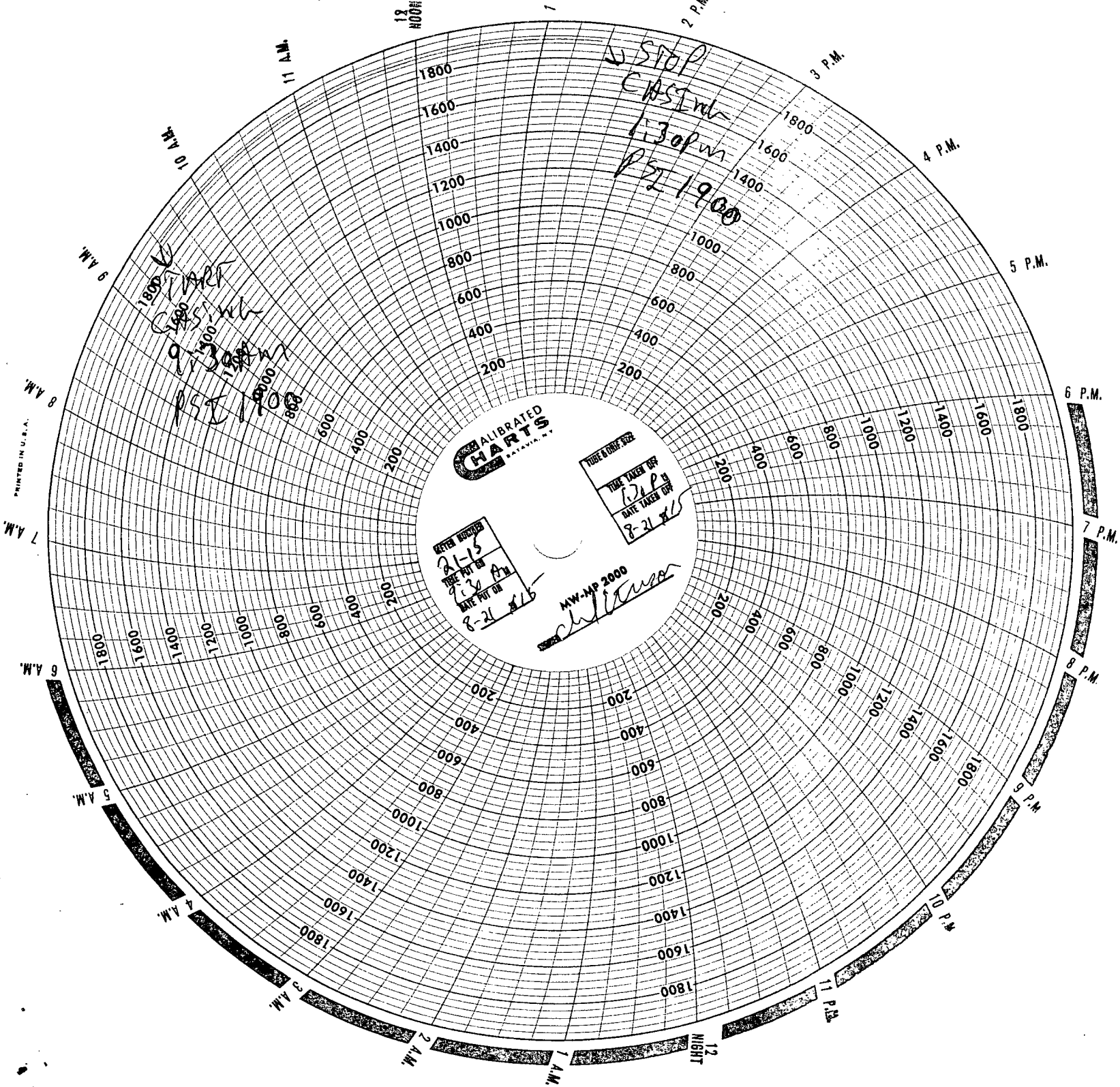
Well Name: 21-15 Type: ER SWD **Status: AC TA UC**
Field: ANTELOPE CREEK
Location: 21-15 Sec: ____ T ____ N / S R ____ E / W County: DUCHESNE State: UT
Operator: PETROGLYPH ENERGY
Last MIT: ____ / ____ / ____ **Maximum Allowable Pressure:** _____ **PSIG**

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

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

MIT DATA TABLE	*Test #1*	*Test #2*	*Test #3*
TUBING		***PRESSURE RECORD***	
Initial Pressure	375 psig	psig	psig
End of test pressure	375 psig	psig	psig
CASING / TUBING ANNULUS		***PRESSURE RECORD***	
0 minutes	1900 psig	psig	psig
5 minutes	1900 psig	psig	psig
10 minutes	1900 psig	psig	psig
15 minutes	1900 psig	psig	psig
20 minutes	1900 psig	psig	psig
25 minutes	1900 psig	psig	psig
30 minutes	1900 psig	psig	psig
4 HOURS ~~*minutes*~~	1900 psig	psig	psig
_____ *minutes*	psig	psig	psig
RESULT	*[ ] Pass [ ]Fail*	*[ ] Pass [ ]Fail*	*[ ] Pass [ ]Fail*

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


12 NOON
1 P.M.
2 P.M.
3 P.M.
4 P.M.
5 P.M.
6 P.M.
7 P.M.
8 P.M.
9 P.M.
10 P.M.
11 P.M.
12 NIGHT
1 A.M.
2 A.M.
3 A.M.
4 A.M.
5 A.M.
6 A.M.
7 A.M.
8 A.M.
9 A.M.
10 A.M.
11 A.M.
CALIBRATED CHARTS BATAVIA, N.Y.
TUBE & ORIFICE SIZE
TIME TAKEN OFF
DATE TAKEN OFF
METER NUMBER
TIME PUT ON
DATE PUT ON
MW-MP 2000
PRINTED IN U.S.A.

RECEIVED

JUN 22 2015

Office of Enforcement, Compliance
and Environmental Justice (UFO)

June 17, 2015

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

RE: Underground Injection Control (UIC)
Notice of Violation
Loss of Mechanical Integrity
EPA Permit #UT2736-04522
Well No. Ute Tribal 21-15
Antelope Creek Oil Field
Duchesne County, Utah

Dear Mr. Breffle:

Please be advised that on June 12, 2015 we lost Mechanical Integrity on the Ute Tribal 21-15 Injection Well. My direct number is 435-722-5302 if you wish to contact us.

Sincerely,
Petroglyph Operating Company, Inc.

Rodrigo Jurado
Regulatory Compliance Specialist

TAB GREEN CBI

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

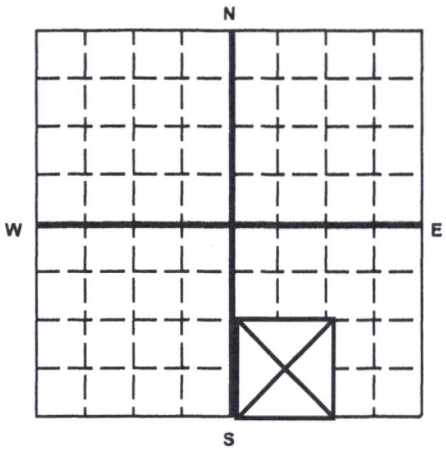
EPA

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	UT2736-04522

Surface Location Description

[ ] 1/4 of [ ] 1/4 of SW 1/4 of SE 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 682 ft. frm (N/S) S Line of quarter section and 3332 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 21-15

		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	1498	1592	1175		0	0
February	13	1623	1773	2172		0	0
March	13	1729	1781	2533		0	0
April	13	1822	1864	2916		0	0
May	13	1794	1854	2445		0	0
June	13	1797	1829	2236		0	0
July	13	1783	1859	1970		0	0
August	13	1803	1820	2383		0	0
September	13	1835	1877	2348		0	0
October	13	1841	1863	2544		0	0
November	13	1841	1859	2824		0	0
December	13	1807	1855	2348		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	[signature]	2/11/2014

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

TAB	GREEN	BLUE	CBI
		2	

U2 Entered
Date 3/21/14
Initial DB

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 21-15 INJ**
Sample Point: **Wellhead**
Sample Date: **1/8/2014**
Sample ID: **WA-262977**

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:	8.10
Calculated TDS (mg/L):	11366.21
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):	3951.01	Chloride (Cl):	5000.00
Potassium (K):	74.00	Sulfate (SO_4):	275.00
Magnesium (Mg):	23.00	Bicarbonate (HCO_3):	1952.00
Calcium (Ca):	52.00	Carbonate (CO_3):	
Strontium (Sr):	4.90	Acetic Acid (CH_3COO)	
Barium (Ba):	2.80	Propionic Acid (C_2H_5COO)	
Iron (Fe):	9.20	Butanoic Acid (C_3H_7COO)	
Zinc (Zn):	0.50	Isobutyric Acid ($(CH_3)_2CHCOO$)	
Lead (Pb):	0.11	Fluoride (F):	
Ammonia NH_3:		Bromine (Br):	
Manganese (Mn):	0.29	Silica (SiO_2):	21.40

Notes:
B=5 Al=.14 Li=.88

(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	1.20	36.82	1.69	1.63	3.73	4.53	2.26	6.65	0.00	0.00	0.00	0.00	0.00	0.00	10.79	0.26
73.00	157.00	1.20	36.50	1.54	1.62	3.58	4.52	2.31	6.65	0.00	0.00	0.00	0.00	0.00	0.00	10.48	0.26
86.00	300.00	1.23	37.21	1.41	1.60	3.48	4.52	2.39	6.66	0.00	0.00	0.00	0.00	0.00	0.00	10.21	0.26
100.00	443.00	1.26	37.95	1.30	1.58	3.40	4.52	2.47	6.66	0.00	0.00	0.00	0.00	0.00	0.00	9.98	0.26
113.00	585.00	1.30	38.71	1.20	1.56	3.34	4.51	2.55	6.67	0.00	0.00	0.00	0.00	0.00	0.00	9.77	0.26
126.00	728.00	1.35	39.47	1.12	1.54	3.29	4.51	2.62	6.67	0.00	0.00	0.00	0.00	0.00	0.00	9.57	0.26
140.00	871.00	1.39	40.21	1.04	1.52	3.26	4.51	2.70	6.67	0.00	0.00	0.00	0.00	0.00	0.00	9.40	0.26
153.00	1014.00	1.44	40.91	0.98	1.49	3.25	4.51	2.77	6.68	0.00	0.00	0.00	0.00	0.00	0.00	9.24	0.26
166.00	1157.00	1.50	41.56	0.93	1.47	3.24	4.51	2.84	6.68	0.00	0.00	0.00	0.00	0.00	0.00	9.10	0.26
180.00	1300.00	1.56	42.16	0.89	1.45	3.25	4.51	2.91	6.68	0.00	0.00	0.00	0.00	0.00	0.00	8.97	0.26

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

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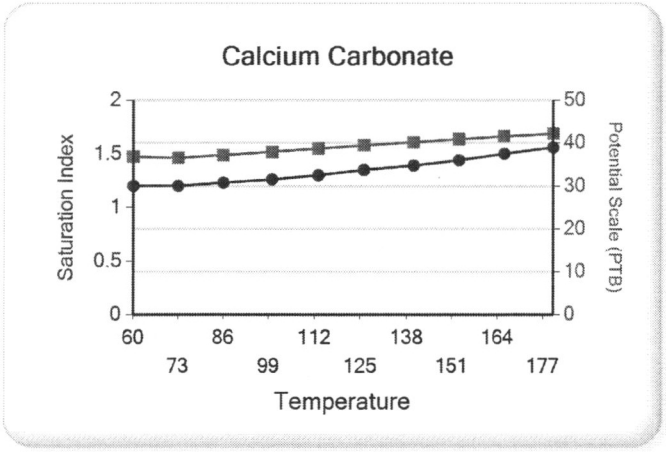
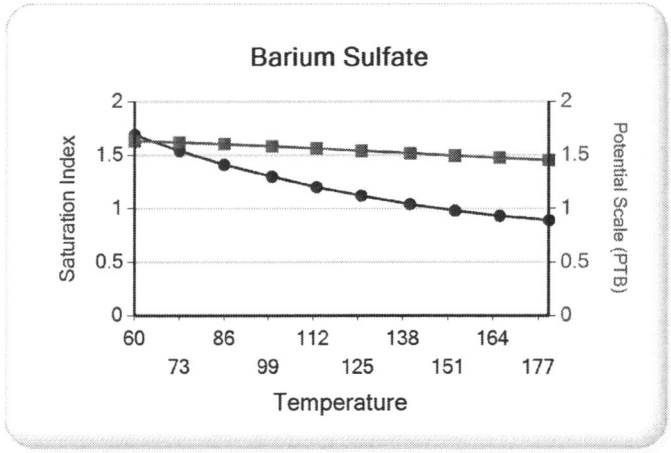
Water Analysis Report

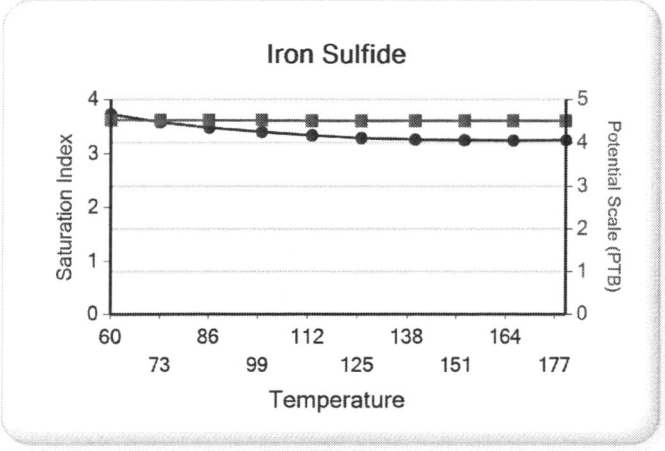
		Hemihydrate CaSO4~0.5H2O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
60.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.03	12.68	0.05	0.00	0.00	0.00	0.00	6.59	7.04
73.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.13	12.18	0.05	0.00	0.00	0.00	0.00	6.73	7.05
86.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.21	11.74	0.05	0.00	0.00	0.00	0.00	7.07	7.08
100.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.26	11.35	0.05	0.20	1.37	0.00	0.00	7.43	7.10
113.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.28	10.99	0.05	0.83	5.02	0.00	0.00	7.83	7.12
126.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	0.30	10.66	0.05	1.46	8.70	0.31	2.13	8.24	7.13
140.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	0.31	10.36	0.05	2.10	12.33	0.67	4.25	8.67	7.14
153.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27	0.32	10.08	0.05	2.74	15.80	1.04	6.25	9.11	7.14
166.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	0.32	9.83	0.05	3.38	18.92	1.40	8.04	9.56	7.15
180.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.33	9.60	0.05	4.02	21.50	1.77	9.57	10.02	7.15

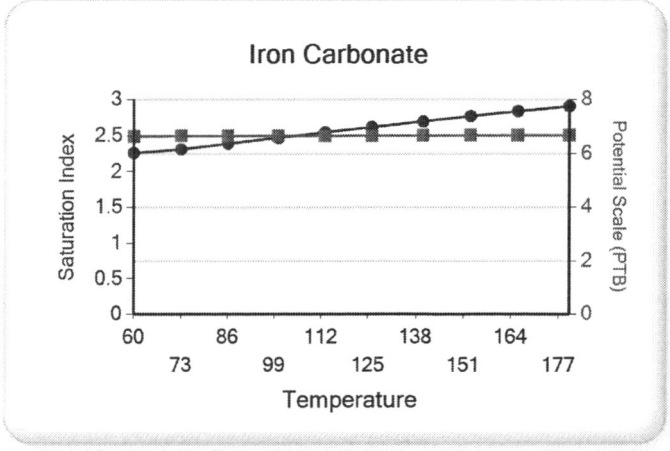
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Fe Silicate

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









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

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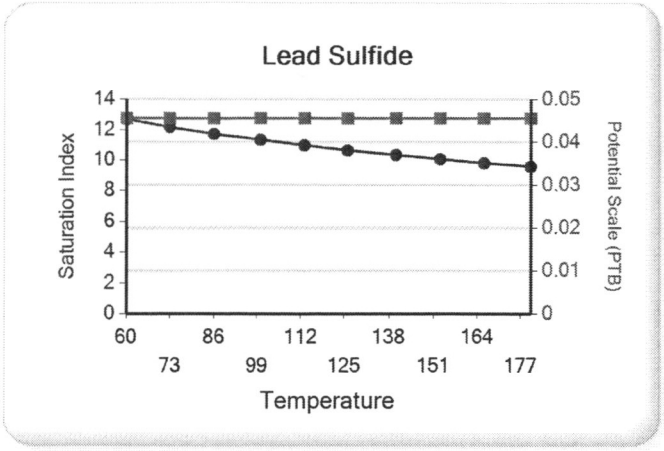
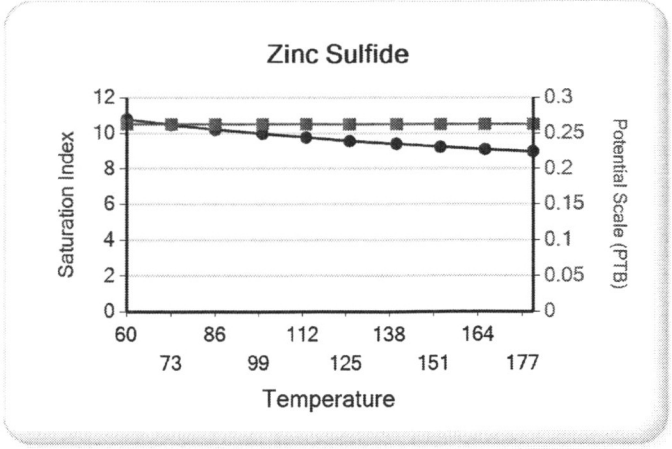
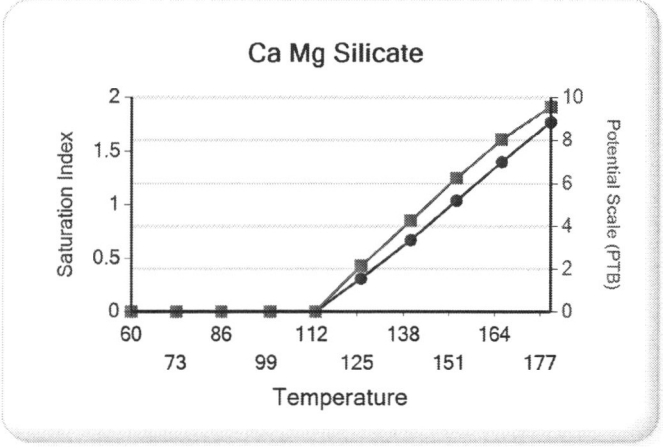
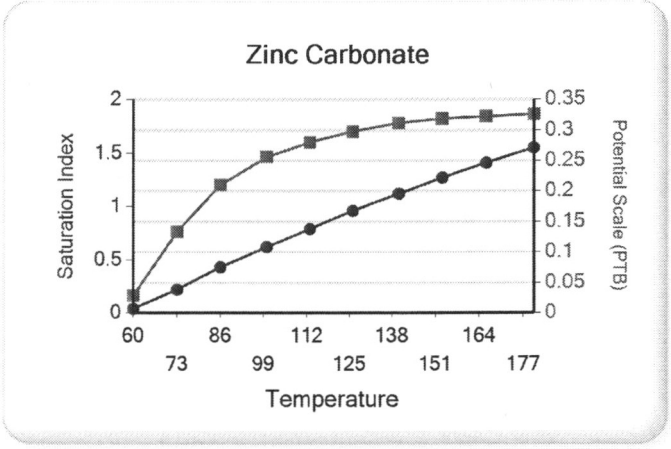
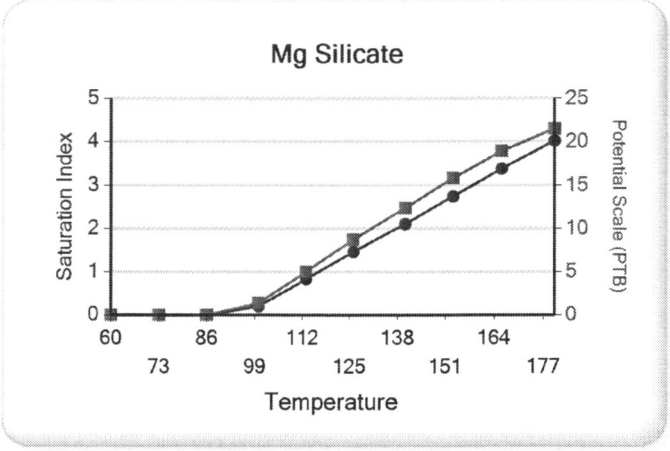
Water Analysis Report

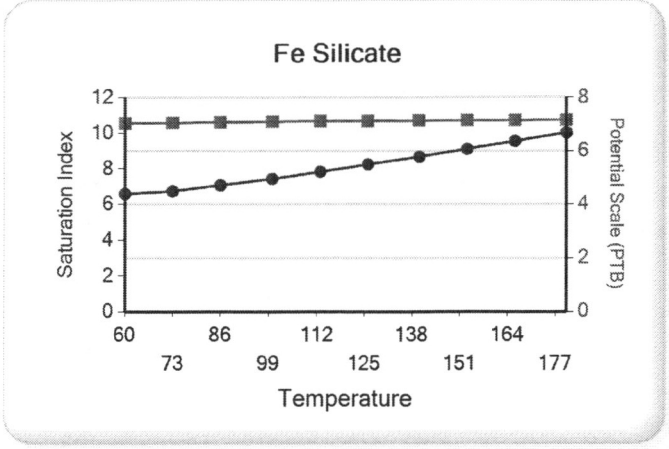











Fe Silicate
Saturation Index
Potential Scale (PTB)
Temperature
12
10
8
6
4
2
0
8
6
4
2
0
60
86
112
138
164
73
99
125
151
177

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
999 18TH STREET - SUITE 500
DENVER, CO 80202-2466

AUG 29 2000

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

Re: AUTHORIZATION TO COMMENCE INJECTION
Ute Tribal #21-15 (UT04522)
Antelope Creek Field
EPA AREA PERMIT UT2736-00000
Duchesne County, Utah

Dear Mr. Safford:

Thank you for submitting information pertaining to Ute Tribal #21-15 to the Environmental Protection Agency (EPA) Region VIII Ground Water Program. Requirements of UIC Area Permit UT2736-00000 Part II Sections (C)(2) "Prior To Commencing Injection" required submittal of the following information:

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

2. Successfully run Mechanical Integrity Test (MIT) with pressure chart,

3. Injection zone fluid pore pressure survey.

All required information has been submitted, and has been reviewed and approved by the EPA. Petroglyph has complied with all pertinent conditions of UIC Area Permit UT2736-00000 Part II Section (C)(2). Therefore, effective upon your receipt of this letter, Administrative approval hereby is granted for injection into the Ute Tribal #21-15 under the conditions of UIC Area Permit UT2736-00000. The Director has determined that the **maximum surface injection pressure for the Ute Tribal #21-15 shall not exceed 1900 psig.**

Printed on Recycled Paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
999 18TH STREET - SU
DENVER, CO 8020

Scan under UT20736-04522 220 Authorization to Inject - Final 8/29/2000

AUG 29 2000

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

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Antelope Creek Field
EPA AREA PERMIT UT2736-00000
Duchesne County, Utah

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Printed on Recycled Paper

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

Please send all reporting forms and other required correspondence to Mr. Craver at the address listed below, referencing **EPA WELL ID: UT04522** on all reports and correspondence.

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

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

Sincerely,

D. Edwin Hogle
Director
Ground Water Program

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

Ms. Elaine Willie, Environmental Director
Ute Indian Tribe

Mr. Norman Cambridge
BIA - Uintah & Ouray Agency

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

Mr. Jerry Kenczka
BLM - Vernal District Office

Z 153 032 670

US Postal Service **8/29/00 CW 3808C & 3809C**

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail *(See reverse)*

Sent to Mr. Micheal Safford	
Street & Number Operations Coordinator	
Post Office, State, & ZIP Code Petroglyph Operating Co., Inc. P.O. Box 607	
Postage Roosevelt, UT	$ 84066
Certified Fee Mailed together	
Special Delivery Fee original green card (3809C)	
Restricted Delivery Fee Ute Tribal #21-15	
Return Receipt Showing to Whom & Date Delivered UT2736-04522	
Return Receipt Showing to Whom, Date, & Addressee's Address (3809C) Ute Tribal #30-10	
TOTAL Postage & Fees UT2736-04524	
Postmark or Date	

PS Form **3800**, April 1995

SENDER: 8/29/00 CW 3808C & 3809C

- 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. Ute Tribal #21-15 & Ute Tribal #30-10

AUG 29 2000

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

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

4a. Article Number: Z 153 032 670

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

7. Date of Delivery 8-31-00

5. Received By: *(Print Name)*

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

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

SEP 6 2000

Is your RETURN ADDRESS completed on the reverse side?

PS Form **3811**, December 1994 102595-97-B-0179 Domestic Return Receipt

8/29/00 To Micheal Safford
Certified mailed together
(3800C) original green card
1. Ute Tribal #21-15 (UT2736-04522)

2. Ute Tribal # 30-10 (UT2736-04524)

Z 153 032 670

US Postal Service **8/29/00 CW 3808C & 3809C**

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail *(See reverse)*

Sent to Mr. Micheal Safford	
Street & Number Operations Coordinator	
Post Office, State, & ZIP Code Petroglyph Operating Co., Inc. P.O. Box 607	
Postage Roosevelt, UT	$ 84066
Certified Fee Mailed together	
Special Delivery Fee original green card (3809C)	
Restricted Delivery Fee Ute Tribal #21-15	
Return Receipt Showing to Whom & Date Delivered UT2736-04522	
Return Receipt Showing to Whom, Date, & Addressee's Address (3809C) Ute Tribal #30-10	
TOTAL Postage & Fees UT2736-04524	
Postmark or Date	

PS Form **3800**, April 1995

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
999 18TH STREET - SUITE 500
DENVER, CO 80202-2466

AUG 29 2000

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

Re: AUTHORIZATION TO COMMENCE INJECTION
Ute Tribal #21-15 (UT04522)
Antelope Creek Field
EPA AREA PERMIT UT2736-00000
Duchesne County, Utah

Dear Mr. Safford:

Thank you for submitting information pertaining to Ute Tribal #21-15 to the Environmental Protection Agency (EPA) Region VIII Ground Water Program. Requirements of UIC Area Permit UT2736-00000 Part II Sections (C)(2) "Prior To Commencing Injection" required submittal of the following information:

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

2. Successfully run Mechanical Integrity Test (MIT) with pressure chart,

3. Injection zone fluid pore pressure survey.

All required information has been submitted, and has been reviewed and approved by the EPA. Petroglyph has complied with all pertinent conditions of UIC Area Permit UT2736-00000 Part II Section (C)(2). Therefore, effective upon your receipt of this letter, Administrative approval hereby is granted for injection into the Ute Tribal #21-15 under the conditions of UIC Area Permit UT2736-00000. The Director has determined that the **maximum surface injection pressure for the Ute Tribal #21-15 shall not exceed 1900 psig.**

Printed on Recycled Paper

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

Please send all reporting forms and other required correspondence to Mr. Craver at the address listed below, referencing **EPA WELL ID: UT04522** on all reports and correspondence.

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

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

Sincerely,

D. Edwin Hogle
Director
Ground Water Program

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

Ms. Elaine Willie, Environmental Director
Ute Indian Tribe

Mr. Norman Cambridge
BIA - Uintah & Ouray Agency

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

Mr. Jerry Kenczka
BLM - Vernal District Office

TELEFAX COVER SHEET

DATE: 8/29/00

TO: Mike Safford **MAIL CODE:**

AGENCY/FIRM: Petroglyph **PHONE:**

CITY: Roosevelt **STATE:** UT

TELEFAX MACHINE NUMBER: (435) 722-9145

PLEASE INCLUDE AREA CODE

NUMBER OF PAGES *(INCLUDING COVER SHEET)* 7

FROM: Chuck Williams **PHONE:** (303) - 312-6625

U.S. EPA REGION VIII
UNDERGROUND INJECTION CONTROL 8P -W-GW
999 18TH STREET
SUITE 500
DENVER CO 80202-2466 **TELEFAX: (303) 312-7084**

REMARKS: Ute Tribal #30-10
Limited Auth. to Inject

Ute Tribal #21-15
Auth. to Commence Inj.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
999 18TH STREET - SUITE 500
DENVER, CO 80202-2466

AUG 29 2000

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

Re: AUTHORIZATION TO COMMENCE INJECTION
Ute Tribal #21-15 (UT04522)
Antelope Creek Field
EPA AREA PERMIT UT2736-00000
Duchesne County, Utah

Dear Mr. Safford:

Thank you for submitting information pertaining to Ute Tribal #21-15 to the Environmental Protection Agency (EPA) Region VIII Ground Water Program. Requirements of UIC Area Permit UT2736-00000 Part II Sections (C)(2) "Prior To Commencing Injection" required submittal of the following information:

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

2. Successfully run Mechanical Integrity Test (MIT) with pressure chart,

3. Injection zone fluid pore pressure survey.

All required information has been submitted, and has been reviewed and approved by the EPA. Petroglyph has complied with all pertinent conditions of UIC Area Permit UT2736-00000 Part II Section (C)(2). Therefore, effective upon your receipt of this letter, Administrative approval hereby is granted for injection into the Ute Tribal #21-15 under the conditions of UIC Area Permit UT2736-00000. The Director has determined that the **maximum surface injection pressure for the Ute Tribal #21-15 shall not exceed 1900 psig.**

Printed on Recycled Paper

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

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U.S. Environmental Protection Agency
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Director
Ground Water Program

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

Ms. Elaine Willie, Environmental Director
Ute Indian Tribe

Mr. Norman Cambridge
BIA - Uintah & Ouray Agency

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

Mr. Jerry Kenczka
BLM - Vernal District Office

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
999 18TH STREET - SUITE 500
DENVER, CO 80202-2466

AUG 29 2000 CONCURRENCE COPY

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

Re: AUTHORIZATION TO COMMENCE INJECTION
Ute Tribal #21-15 (UT04522)
Antelope Creek Field
EPA AREA PERMIT UT2736-00000
Duchesne County, Utah

Dear Mr. Safford:

Thank you for submitting information pertaining to Ute Tribal #21-15 to the Environmental Protection Agency (EPA) Region VIII Ground Water Program. Requirements of UIC Area Permit UT2736-00000 Part II Sections (C)(2) "Prior To Commencing Injection" required submittal of the following information:

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

2. Successfully run Mechanical Integrity Test (MIT) with pressure chart,

3. Injection zone fluid pore pressure survey.

All required information has been submitted, and has been reviewed and approved by the EPA. Petroglyph has complied with all pertinent conditions of UIC Area Permit UT2736-00000 Part II Section (C)(2). Therefore, effective upon your receipt of this letter, Administrative approval hereby is granted for injection into the Ute Tribal #21-15 under the conditions of UIC Area Permit UT2736-00000. The Director has determined that the **maximum surface injection pressure for the Ute Tribal #21-15 shall not exceed 1900 psig.**

Concur

CEW 8/24/00 8P-W-GW 8/28/00 8P-W-GW 8/29/00 mailed 8/29/00 8/29/00

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

Please send all reporting forms and other required correspondence to Mr. Craver at the address listed below, referencing **EPA WELL ID: UT04522** on all reports and correspondence.

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

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

Sincerely,

D. Edwin Hogle
Director
Ground Water Program

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

Ms. Elaine Willie, Environmental Director
Ute Indian Tribe

Mr. Norman Cambridge
BIA - Uintah & Ouray Agency

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

Mr. Jerry Kenczka
BLM - Vernal District Office