

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMLC063798

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
RED HILLS AGI 1

9. API Well No.
30-025-40448

10. Field and Pool or Exploratory Area
EXPLORATORY CHERRY CANYON
AOE

11. County or Parish, State
LEA COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

JAN 16 2018

1. Type of Well
 Oil Well Gas Well Other: INJECTION

2. Name of Operator
LUCID ENERGY DELAWARE, LLC Contact: JARED R SMITH
E-Mail: jsmith@geolex.com

3a. Address
3100 MCKINNON STREET SUITE 800
DALLAS, TX 75201

3b. Phone No. (include area code)
Ph: 505-842-8000

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 13 T24S R33E Mer NMP 1600FSL 150FEL
32.214695 N Lat, 103.518009 W Lon

RECEIVED

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Lucid Energy Delaware, LLC is submitting the No Recoverable Hydrocarbons Sundry for the Red Hills AGI #1. The recoverable hydrocarbon potential of the approved injection zone (Cherry Canyon Member) has been comprehensively evaluated. To accomplish this, Lucid has conducted an extensive analysis of the well logs, including a full suite of geophysical logs, mud logs, analysis of sidewall core samples, and formation fluid samples (Attachments A, B and C). The results of this detailed analysis, which are summarized in this form and its three attachments clearly demonstrate that the proposed injection zone does not contain any recoverable hydrocarbons.

The results of these analyses indicate that the minor indications of residual hydrocarbons detected in portions of the proposed injection zone are not recoverable and the zones are wet with residual water saturations.

ACCEPTED FOR RECORD
SUBJECT TO LIKE
APPROVAL BY STATE

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #399901 verified by the BLM Well Information System
For LUCID ENERGY DELAWARE, LLC, sent to the Hobbs
Committed to AFMSS for processing by PAUL SWARTZ on 01/09/2018 ()

Name (Printed/Typed) JARED R SMITH Title CONSULTANT TO LUCID ENERGY

Signature (Electronic Submission) Date 01/08/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By *[Signature]* 01/09/17 Title *[Signature]* T PET Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office **BUREAU OF LAND MANAGEMENT**
CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional data for EC transaction #399901 that would not fit on the form

32. Additional remarks, continued

Based on the analyses detailed in the attachments to this form, Lucid respectfully requests BLM approval that there are no recoverable hydrocarbons in the injection zone.

ATTACHMENT A

DEMONSTRATION OF NO RECOVERABLE HYDROCARBONS IN THE CHERRY CANYON MEMBER

EVALUATION OF GEOPHYSICAL LOGS, SIDEWALL CORE, AND FORMATION FLUID

Sec. 13- Twp. 24S-33E
Lea County, New Mexico

Prepared For:
Lucid Energy Delaware, LLC

Prepared By:
Geolex, Inc.
500 Marquette, NW Suite 1350
Albuquerque, NM 87102

January 5, 2017

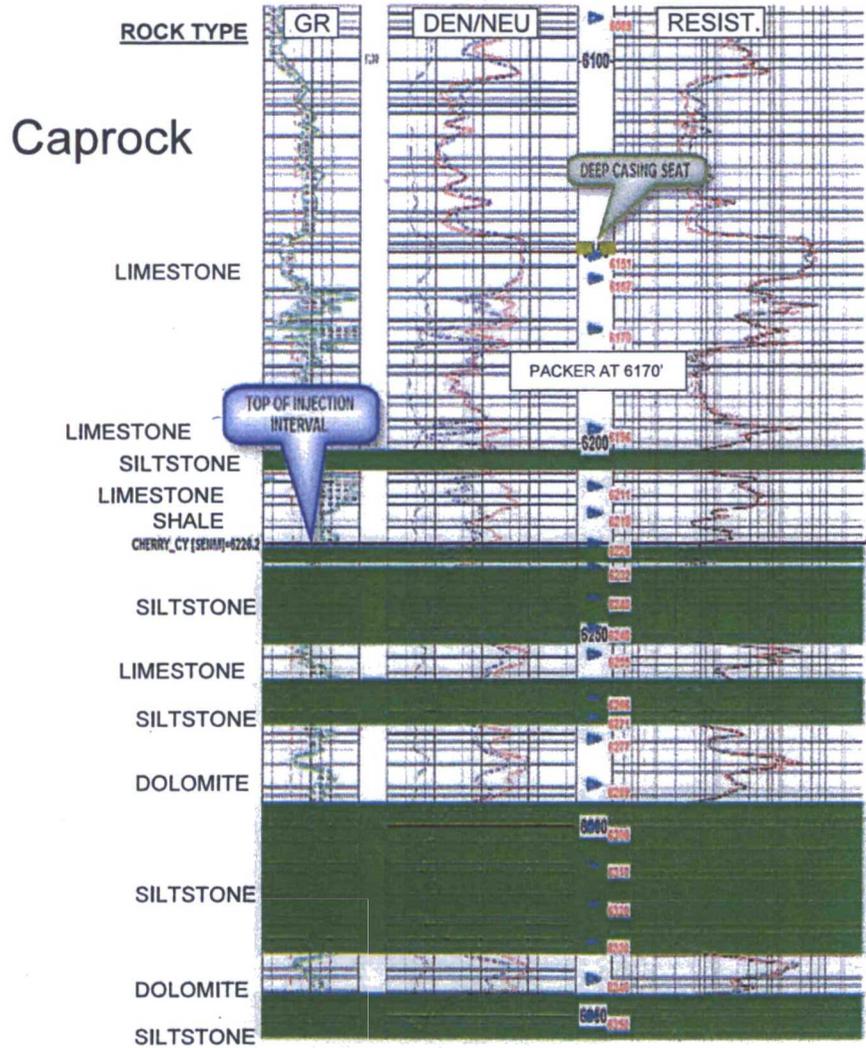
SUMMARY OF FACTORS CONSIDERED IN RESERVOIR EVALUATION FOR RECOVERABLE HYDROCARBONS AND INJECTION SUITABILITY

- The successful evaluation of recoverable hydrocarbon potential and reservoir properties using sidewall cores requires the careful considerations of the limitations of the samples obtained since each actual sidewall is only representative of a small portion of the sampled formation at each sample location.
- The overall evaluation of the reservoir requires the simultaneous consideration of various data types and sources in order to arrive at a reasonable conceptual model of predicted injection performance. These additional data types are evaluated and considered in this analysis and include the complete geophysical log suite for the well including the triple combo, porosity, and resistivity logs, mudlogs, drilling condition reports, and on-site observations. The overall evaluation and recommendations included herein for completion are the result of the analyses and evaluation of these multiple data types.
- In addition, the well appears to be accepting fluids as observed by a 60 psi drop in formation pressure and a 1,223 psi drop in surface pressure after 15 minutes of being shut-in at the end of the step rate test (see BLM and NMOCD Sundries)
- In the following pages, we have divided the injection interval into 2 log composite segments to integrate the results of the sidewall core analyses, the lithologic architecture of the interval, and the injection perforations. These consolidated log composites along with the supporting data form the basis for the determination of no recoverable hydrocarbons in the proposed injection zone.
- Attachment B includes the detailed evaluation of the mudlog and sidewall cores across the injection interval; which are also discussed in conjunction with the geophysical logs on the following pages.
- In addition to the geophysical logs and mudlogs, formation fluid samples that came from the injection zone (i.e. swabbing) provide further evidence for the lack of recoverable hydrocarbons (Attachment C).

Caprock Zones (no perms)
 NM - Not Measured
 Fractures

CORE SAMPLE ANALYSIS

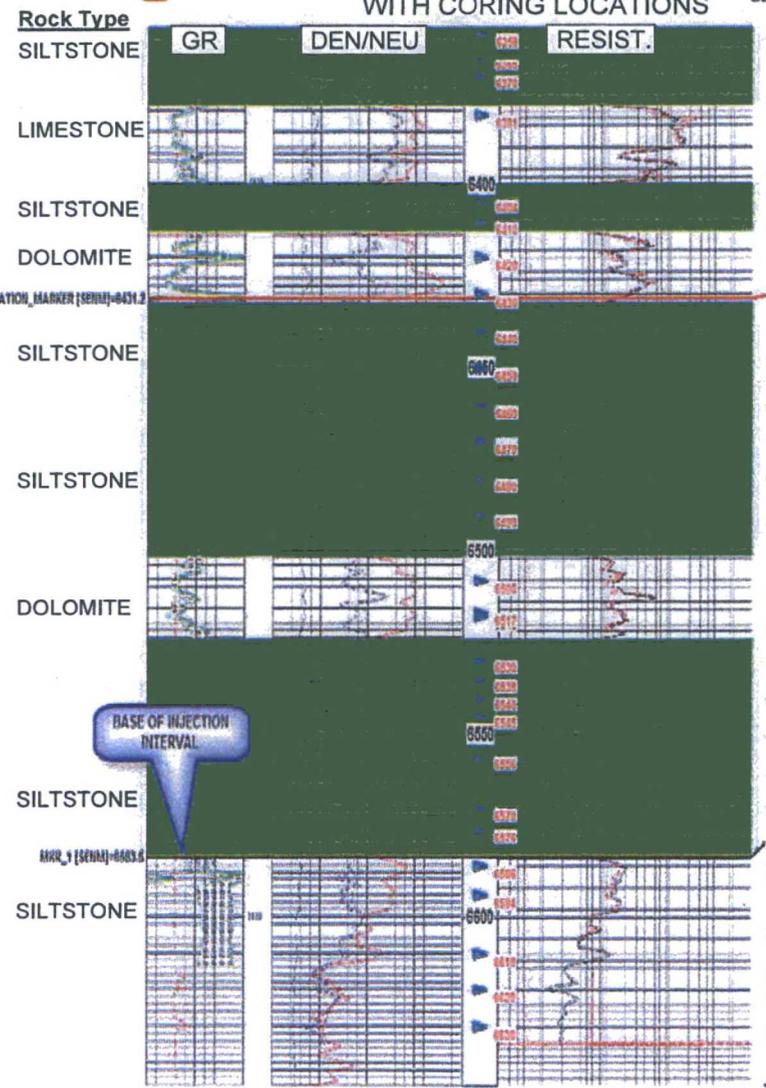
GEOPHYSICAL LOG ANALYSIS WITH CORING LOCATIONS



Sample ID	Net Porosity/Zone (ft)	Avg Zone Porosity (%)	Zone	Depth (ft)	Porosity (%)	Perm (mD)
1				6021	4.7	0.0260
2		2.65		6055	4.2	0.0639
3				6063	1.2	0.0767
4				6068	0.5	0.0033
5				6078	17.4	0.1736
6				6089	16.4	0.1087
7				6151	2.7	0.0697
8				6157	2.0	0.0312
9				6170	8.6	0.0005
10				6196	6.0	NM
11				6200	1.0	0.0758
12				6200	10.0	0.0369
13				6200	10.0	0.0369
14		1.000	6250' - 6260' 10 FEET	6255	1.0	0.0758
15				6268	2.0	NM
16				6270	2.0	0.0369
17				6300	15.0	0.2103
18		5.950	6280' - 6295' 15 FEET	6289	7.9	0.0489
19				6300	4.0	0.0363
20				6300	20.0	0.3809
21				6300	30.0	0.2500
22				6300	40.0	0.0703
23				6300	15.0	0.0363
24		4.800	6342' - 6352 10 FEET	6350	4.8	0.0365
25				6350	10.0	0.0363

Caprock Zones (no perms)
 NM - Not Measured
 Sedimentation / Perforation Zones

GEOPHYSICAL LOG ANALYSIS WITH CORING LOCATIONS



CORE SAMPLE ANALYSIS

Sample ID	Net Porosity/ Zone (ft)	Avg Zone Porosity (%)	Zone	Depth (ft)	Porosity (%)	Perm (mD)
26	14.700	18.750	6380' - 6400' 20 FEET	6380	18.7	0.0211
27				6390	22.1	0.0243
28	1.100		6380' - 6400' 20 FEET	6381	1.1	0.0223
29				6391	15.0	0.0194
30	2.300	27.700	6415' - 6435' 20 FEET	6409	16.3	0.0320
31	4.100		6415' - 6435' 20 FEET	6420	4.1	0.0154
32				6430	4.1	0.0052
33				6440	13.5	0.0197
34				6450	10.3	0.0096
35				6460	26.4	0.0258
36	3.300	13.200	6500' - 6525' 25 FEET	6480	14.00	0.0098
37				6490	13.40	0.0138
38				6500	15.20	0.0150
39				6509	41.00	0.0229
40	3.400		6500' - 6525' 25 FEET	6508	5.20	0.0494
41				6517	5.00	0.0358
43				6540	40.2	0.0198
44				6550	10.0	0.0134
45	3.300	11.200	6583' - 6625' 42 FEET	6583	31.9	0.0260
46				6593	31.9	0.0358
47				6594	15.0	0.0197
48				6599	9.8	0.0176
49				6586	3.8	0.1434
50	7.800		6583' - 6625' 42 FEET	6594	6.8	0.0426
51				6610	7.5	0.0430
52				6620	9.1	0.0195
53				6630	21.1	2.0364
This zone not perforated and remains behind pipe						
TOTAL	50.915	18.10132653	Feet of Perfs	243		

**BOTTOM OF INJECTION
 ZONE AT 6583'**

Red Hills AGI #1 – Sidewall Core Analysis

6,021' – 6,370'

SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POR %	PERM mD	SATURATIONS		GAS UNITS	FLUORESCENCE		LITHOLOGY
					Sw	So		%		
1	6021.0	2.68	4.7	0.026	83.4	0.0	0	0	Mf	Ss gy-tn-opaq vf-fgr sbang-sbrmd vcalc sc slty intrbd lam
2	6055.0	2.69	4.2	0.064	82.5	0.0	0	0	Mf	Ss gy-tn-opaq vf-fgr sbang-sbrmd vcalc tr slty intrbd
3	6063.0	2.70	1.2	0.077	91.1	0.0	0	0	DI mf	Ls dk gy-gy-tn sslyt sc slty intrbd
4	6068.0	2.71	6.5	0.003	60.5	0.0	0	0	DI mf	Ls gy-tn sslyt sc slty intrbd tr hl frac
5	6078.0	2.72	17.4	0.174	84.9	0.0	0	0	DI yl mf	Ls tn-crm sucro sslyt sc slty intrbd abd sc sml vug ool
6	6089.0	2.71	16.4	0.109	87.9	0.0	0	0	DI yl mf	Ls tn-crm sucro sslyt sc slty intrbd abd sc sml vug ool
7	6151.0	2.70	2.7	0.070	74.0	0.0	0	0	DI yl mf	Ls gy-tn sslyt sc slty intrbd abd sc calc fd vug ool
8	6157.0	2.71	2.0	0.031	67.6	0.0	0	0	DI yl mf	Ls gy-tn sslyt sc slty intrbd sc calc fd vug frac
9	6170.0	2.71	6.5	<.001	52.5	0.0	0	0	DI yl mf	Ls tn-crm sslyt sc slty intrbd sc calc fd vug ool foss
10	6196.0	2.69	6.0	tbfa	81.4	0.0	5	20	DI brn	Sh blk-dk gy-gy sslyt sc slty intrbd sc bent intrbd sc pyr
11	6202.0	2.68	17.3	0.312	82.3	0.0	0	0		Ss gy-tn-opaq vf-fgr sbang-sbrmd vcalc sc slty intrbd
12	6239.0	2.68	29.1	3.265	88.5	0.0	1	0		Ss gy-tn-opaq vf-fgr sbang-sbrmd scale sc slty intrbd tr hal
13	6247.0	2.66	21.7	3.098	92.3	0.0	0	0		Ss gy-tn-opaq vf-fgr sbang-sbrmd mcalc sc slty intrbd sc hal
14	6255.0	2.71	1.0	0.076	69.2	0.0	0	0	DI mf	Ls gy-tn sslyt sc slty intrbd sc calc fd vug ool
15	6266.0	2.77	2.2	tbfa	65.6	0.0	0	0	DI mf	Ss gy-tn-opaq vf-fgr sbang-sbrmd vcalc sc slty intrbd
16	6270.5	2.66	23.2	3.275	88.9	0.0	0	0	DI mf	Ss gy-tn-opaq vf-fgr sbang-sbrmd vcalc sc slty intrbd tr hal
17	6277.0	2.68	1.3	0.641	90.1	0.0	0	0	DI mf	Ss gy-tn-opaq vf-fgr sbang-sbrmd scale sc slty intrbd tr hal
18	6289.0	2.69	7.9	0.049	86.2	0.0	0	0	DI mf	Ss gy-tn-opaq vf-fgr sbang-sbrmd vcalc sc slty intrbd sc hal
19	6300.0	2.71	4.0	0.036	85.7	0.0	0	0	DI mf	Ss gy-tn-opaq vf-fgr sbang-sbrmd vcalc sc slty intrbd sc hal
20	6309.5	2.67	2.1	0.375	93.5	0.0	0	0		Ss tn-gy-opaq vf-fgr sbang-sbrmd mcalc sc slty intrbd sc hal
21	6320.0	2.68	2.1	0.375	93.7	0.0	0	0		Ss tn-gy-opaq vf-fgr sbang-sbrmd mcalc sc slty intrbd sc hal
22	6330.0	2.68	2.1	0.375	93.0	0.0	0	0		Ss tn-gy-opaq vf-fgr sbang-sbrmd scale tr slty intrbd sc hal
23	6340.0	2.68	2.1	0.894	93.0	0.0	0	0		Ss tn-gy-opaq vf-fgr sbang-sbrmd scale tr slty intrbd sc hal
24	6350.0	2.71	4.8	0.037	76.9	0.0	0	0		Ss tn-gy-opaq vf-fgr sbang-sbrmd vcalc sc slty intrbd sc hal
25	6358.0	2.67	1.9	0.926	93.5	0.0	0	0		Ss tn-gy-opaq vf-fgr sbang-sbrmd scale sc slty intrbd sc hal
26	6365.0	2.69	10.6	2.734	91.2	0.0	1	0		Ss tn-gy-opaq vf-fgr sbang-sbrmd scale sc slty intrbd lam sc hal
27	6370.5	2.65	20.1	3.782	95.6	0.0	0	0		Ss tn-gy-opaq vf-fgr sbang-sbrmd scale tr slty intrbd sc hal

VERY HIGH
> 15% POR
> 10 mD PERM

HIGH
10 – 14.9% POR
1 – 9 mD PERM

MODERATE
5.0 – 9.9% POR
0.1 – 0.9 mD PERM

LOW
1.0 – 4.9% POR
0.01 – 0.09 mD PERM

VERY LOW
< 1.0% POR
< 0.01 mD PERM

 Potential Open Zones
 Potential Tight Zones



Red Hills AGI #1 – Sidewall Core Analysis

6,381' – 6,630'

VERY HIGH
> 15% POR
> 10 mD PERM

HIGH
10 – 14.9% POR
1 – 9 mD PERM

MODERATE
5.0 – 9.9% POR
0.1 – 0.9 mD PERM

LOW
1.0 – 4.9% POR
0.01 – 0.09 mD PERM

VERY LOW
< 1.0% POR
< 0.01 mD PERM

Potential Open Zones

Potential Tight Zones

SAMPLE NO.	DEPTH ft	GRAIN DENSITY	POR %	PERM mD	SATURATIONS		GAS UNITS	FLUORESCENCE		LITHOLOGY
					Sw	So		%	%	
28	6381.0	2.72	1.1	0.022	75.2	0.0	0	0	DI mf	Ls gy-tn ssly sc slty intrbd tr calc fd frac
29	6404.0	2.67	1.5	0.035	89.7	0.0	0	0		Ss tn-gy-opaq vf-fgr sbang-sbrmd scale tr slty intrbd sc hal
30	6410.0	2.68	1.2	0.028	90.8	0.0	0	0		Ss tn-gy-opaq vf-fgr sbang-sbrmd scale tr slty intrbd sc hal
31	6420.0	2.77	4.1	0.015	91.5	0.0	0	0	DI mf	Dol gy-tn ssly sc slty intrbd tr sml vug
32	6430.0	2.81	4.1	0.005	84.7	0.0	9	0	DI mf	Dol gy-tn ssly sc slty intrbd tr sml vug sc A/I
33	6440.0	2.66	1.2	0.028	91.0	0.0	0	0		Ss gy-tn-opaq vf-fgr sbang-sbrmd scale tr slty intrbd tr hal
34	6450.0	2.66	2.3	0.009	92.1	0.0	0	0		Ss gy-tn-opaq vf-fgr sbang-sbrmd scale tr slty intrbd sc hal
35	6460.0	2.66	2.2	0.016	93.3	0.0	0	0		Ss gy-tn-opaq vf-fgr sbang-sbrmd scale tr slty intrbd sc hal
36	6469.0	2.66	1.3	0.003	92.2	0.0	0	0		Ss gy-tn-opaq vf-fgr sbang-sbrmd scale tr slty intrbd sc hal
37	6470.0	2.67	1.3	0.489	93.1	0.0	0	0		Ss gy-tn-opaq vf-fgr sbang-sbrmd scale tr slty intrbd tr hal
38	6480.0	2.67	1.3	0.657	89.5	0.0	0	0		Ss gy-tn-opaq vf-fgr sbang-sbrmd scale tr slty intrbd sc hal
39	6490.0	2.67	1.7	0.892	92.3	0.0	0	0		Ss gy-tn-opaq vf-fgr sbang-sbrmd scale tr slty intrbd tr hal
40	6508.0	2.84	5.2	0.049	81.7	0.0	0	0	DI yl mf	Dol gy-tn ssly sc slty intrbd sc A/I nod
41	6517.0	2.78	5.0	0.036	90.4	0.0	0	0	DI yl mf	Dol tn-crm ssly sc slty intrbd abd sc A/I
42	6518.0	2.82	5.3	<0.01	82.5	0.0	0	0	DI yl mf	Dol tn-gy ssly sc slty intrbd tr A/I
43	6530.5	2.65	1.3	0.711	87.1	0.0	0	0	DI mf	Ss gy-tn-opaq vf-fgr sbang-sbrmd scale tr slty intrbd tr sml vug
44	6540.0	2.67	1.4	0.174	88.3	0.0	0	0	DI mf	Ss gy-tn-opaq vf-fgr sbang-sbrmd scale tr slty intrbd sc hal
45	6545.0	2.67	1.4	0.174	90.7	0.0	0	0	DI mf	Ss gy-tn-opaq vf-fgr sbang-sbrmd scale tr slty intrbd tr hal
46	6556.0	2.66	1.5	0.358	92.4	0.0	0	0	DI mf	Ss gy-tn-opaq vf-fgr sbang-sbrmd scale tr slty intrbd sc hal
47	6570.0	2.67	1.5	0.598	90.5	0.0	0	0	DI mf	Ss tn-gy-opaq vf-fgr sbang-sbrmd scale tr slty intrbd tr hal
48	6576.0	2.69	1.5	0.137	88.5	0.0	0	0	DI mf	Ss gy-tn-opaq vf-fgr sbang-sbrmd scale sc slty intrbd sc hal
49	6586.0	2.74	3.8	0.143	86.5	0.0	0	0	DI mf	Ss gy-tn-opaq vf-fgr sbang-sbrmd scale sc slty lam intrbd tr hal
50	6594.0	2.70	6.8	0.043	86.3	0.0	0	0		Ss gy-tn-opaq vf-fgr sbang-sbrmd scale sc slty intrbd sc hal
51	6610.0	2.70	7.5	0.044	90.5	0.0	0	0		Ss gy-tn-opaq vf-fgr sbang-sbrmd scale sc slty intrbd sc hal
52	6620.0	2.69	9.1	0.019	87.9	0.0	0	0		Ss gy-tn-opaq vf-fgr sbang-sbrmd scale sc slty intrbd tr hal
53	6630.0	2.66	1.7	2.036	90.0	0.0	0	0		Ss gy-tn-opaq vf-fgr sbang-sbrmd scale tr slty intrbd sc hal

SUMMARY OF RESERVOIR CHARACTERISTICS OF THE PROPOSED INJECTION INTERVAL DEMONSTRATES NO RECOVERABLE HYDROCARBONS

- Injection is proposed into porous sandstones of the Cherry Canyon Member in the Red Hills AGI #1 well. This interval is composed of fine-medium grained sandstones that contain primary porosity, with interbedded intervals of low porosity and permeability limestone. Secondary porosity (i.e. fractures) may be present in the Cherry Canyon Member.
- Based on nearby wells in the area, this interval is not productive of hydrocarbons.
- Mudlog sample shows throughout the injection interval are very weak (Attachment B). Sample cuts, in the few places found, were likewise weak and very localized, with either no or minor hydrocarbon shows at these locations. Sample cuts indicate wet formation conditions over the entire injection interval. These factors clearly indicate a lack of any movable (recoverable) hydrocarbons.
- Sidewall core results indicate mineral fluorescence, with no shows of hydrocarbon fluorescence across the injection zone. Furthermore, core analysis shows no residual or ambient oil saturation throughout the injection interval, and moderate to high water saturations.
- Formation fluids collected during swabbing show very small concentrations of TPH (Attachment C).
- The sidewall cores, when combined with the lack and quality of mudlog shows and very low TPH in the formation fluid samples, this interval clearly lacks any recoverable hydrocarbons.

END OF ATTACHMENT A

Attachment B
Mud Log with Sidewall Core Images

ATTACHMENT B

MUDLOG EVALUATION FROM 6,230' TO 6,650' (TD)

Selman Mudlog Header

- The contents of the mudlog, including all symbols and readings, are described here.
- Fluorescence from sidewall cores collected across the injection interval were analyzed by Weatherford Laboratories.
- Sidewall core results show mineral fluorescence and no significant shows across the entire injection interval. The cores shown on the following slides were taken under UV light. Sidewall core locations are discussed below.

Rock Types

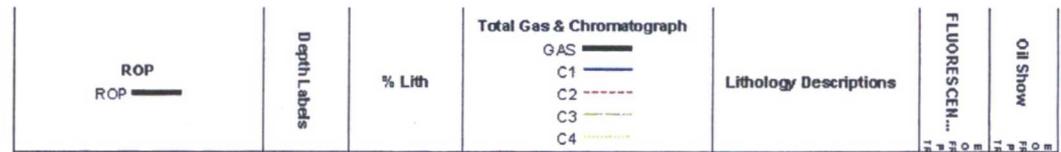
UNKNOWN	ANHYDRITE	DOLOMITE	SHALE GRAY	TILL
GYPSUM	SALT	CHERT	SHALE COLORED	BENTONITE
SIDERITE or LIMONITE	LIMESTONE	COAL	SILTSTONE	TUFF
		MARLSTONE	SANDSTONE	IGNEOUS
		CLAYSTONE	CONGLOMERATE	METAMORPHIC
		SHALE	BRECCIA	CEMENT

Accessories

Fossils	F FOSSIL	ARGILLACEOUS	GLAUCONITE	Stringer
ALGAE	GASTROPOD	ARGILLITE GRAIN	GYPSIFEROUS	ANHYDRITE STRINGER
AMPHIPORA	OOITE	BENTONITE	HEAVY MINERAL	BENTONITE STRINGER
BELEMNITE	OSTRACOD	BITUMENOUS SUBSTANCE	KAOLIN	COAL STRINGER
BIOCLASTIC	PELECYPOD	BRECCIA FRAGMENTS	MARLSTONE	DOLOMITE STRINGER
BRACHIOPOD	PELLET	CALCAREOUS	MINERAL CRYSTALS	GYPSUM STRINGER
BRYOZOA	PSOLITE	CARBONACEOUS FLAKES	NOODULES	LIMESTONE STRINGER
CEPHALOPOD	PLANT REMAINS	CHTLK	PHOSPHATE PELLETS	MARLSTONE (CALC) STRG
CORAL	PLANT SPORES	CHTL	PYRITE	MARLSTONE (DOL) STRG
CRINOID	SCAPHOPOD	COAL - THIN BEDS	SALT CAST	SANDSTONE STRINGER
ECHINOID	STROMATOPOROID	DOLOMITIC	SANDY	SHALE STRINGER
FISH		FELDSPAR	SILICEOUS	
FORAMINIFERA	Minerals	FERRUGINOUS PELLETS	SILTY	SILTSTONE STRINGER
	ANHYDRITIC	FERRUGINOUS	TUFFACEOUS	

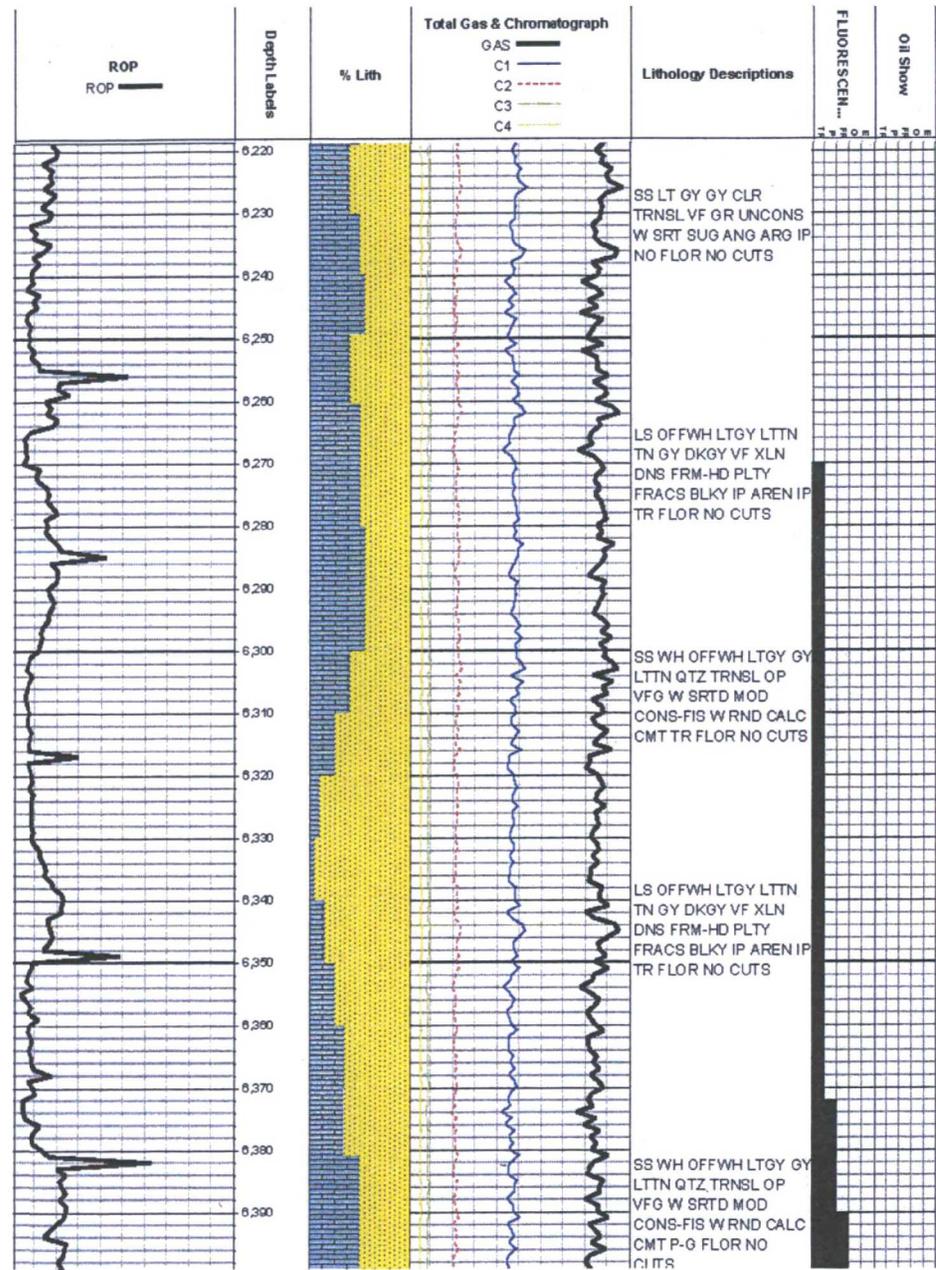
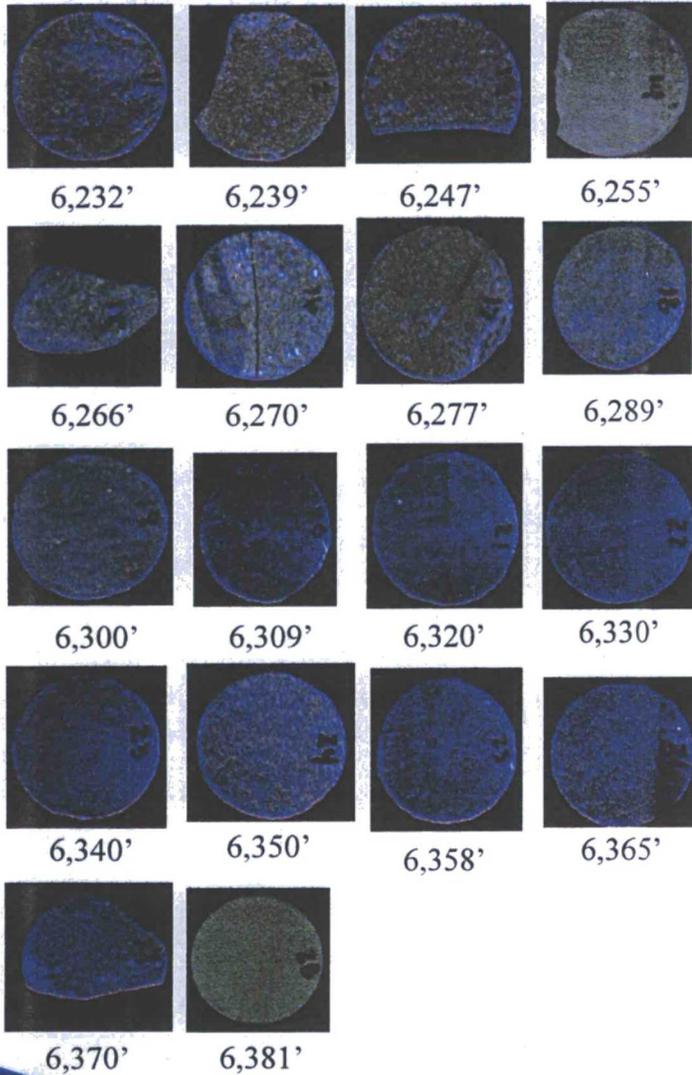
Other Symbols

Oil Show	ORGANIC	FORMATION TOP	Rounding	L LITHOGRAPHIC
DEAD	PINPOINT	GAS SHOW	ANGULAR	MX MICROLIN
EVEN	VUGGY	MIN DEPTH	ROUNDED	MS MUDSTONE
QUESTIONABLE		NORMAL FAULT	SUBANG	PS PACKSTONE
SPOTTED STAINING	Engineering	OIL SHOW	SUBRND	WS WACKSTONE
	BIT	OVERTURNED STRATA		Sorting
Porosity	CASING	REVERSE FAULT	Textures	M MODERATE
E EARTHLY	CONNECTION (LEFT)	SIDEWALL CORE (LEFT)	BOUNDSTONE	P POOR
FENESTRAL	CONNECTION (RIGHT)	SIDEWALL CORE (RIGHT)	CHALKY	W WELL
FRACTURE	CONNECTION GAS	SLIDE	CRYPTOXLN	
INTERCRYSTALLINE	CORE - LOST	SURVEY	E EARTHY	
INTEROOLITIC	CORE - RECOVERED	TRIP GAS	FINELYXLN	
MOLDIC	DIST INTERVAL	WIRELINE TESTED - LEFT	GRAINSTONE	
	FAULT	WIRELINE TESTED - RT		



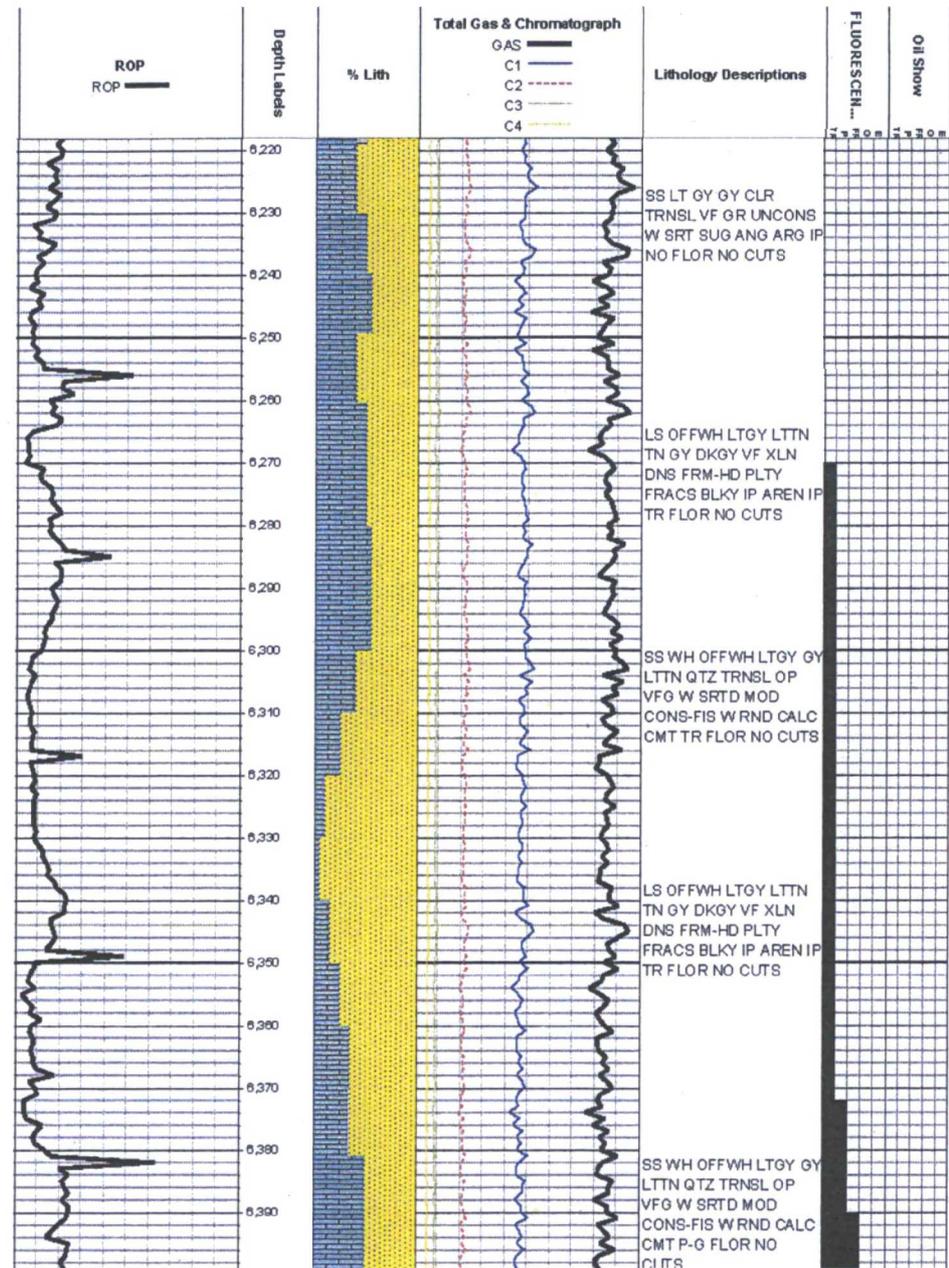
Interval from 6,230' to 6,400'

- The top of the injection interval is primarily composed of Sandstone and Limestone



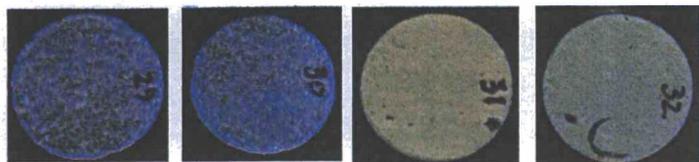
Interval from 6,230' to 6,400' Continued

- Trace gas (mainly methane) detections are shown on the mudlog near the top of the injection zone that do not exceed 55u/5.5 kppm.
- Sidewall cores collected at 6232', 6239', 6247', 6255', 6266', 6270', 6277', 6289', 6300', 6309', 6320', 6330', 6340', 6350', 6358', 6365', 6370', and 6381' have mineral fluorescence with no significant shows.
- The average porosity and permeability from sidewall cores collected between 6190' and 6400' are 14.9% and 3.9 mD, respectively

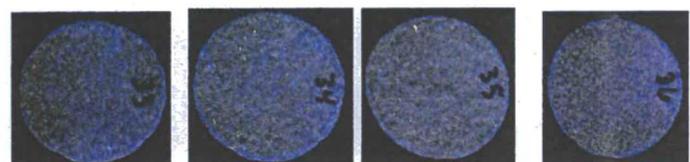


Interval from 6,400' to 6,620'

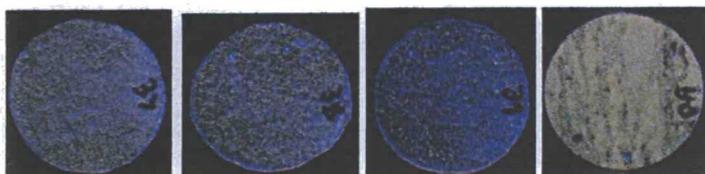
- The center of the injection interval is composed primarily of sandstone



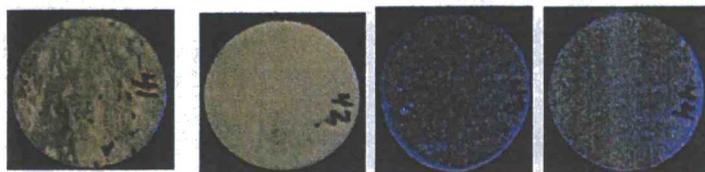
6,404' 6,410' 6,420' 6,430'



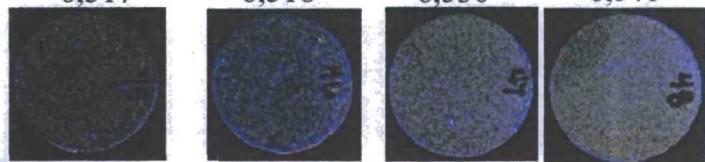
6,440' 6,450' 6,460' 6,469'



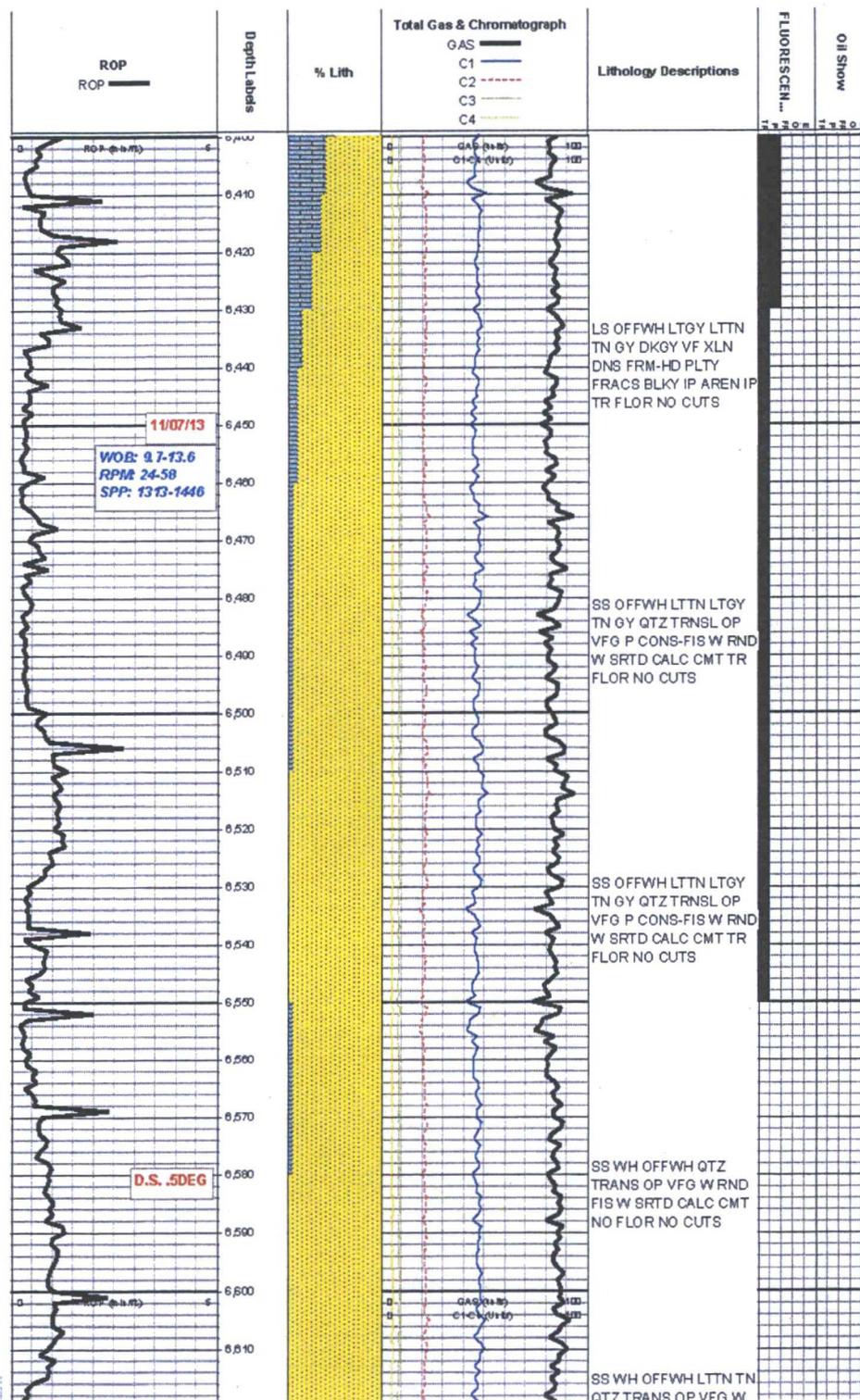
6,470' 6,480' 6,490' 6,508'



6,517' 6,518' 6,530' 6,540'

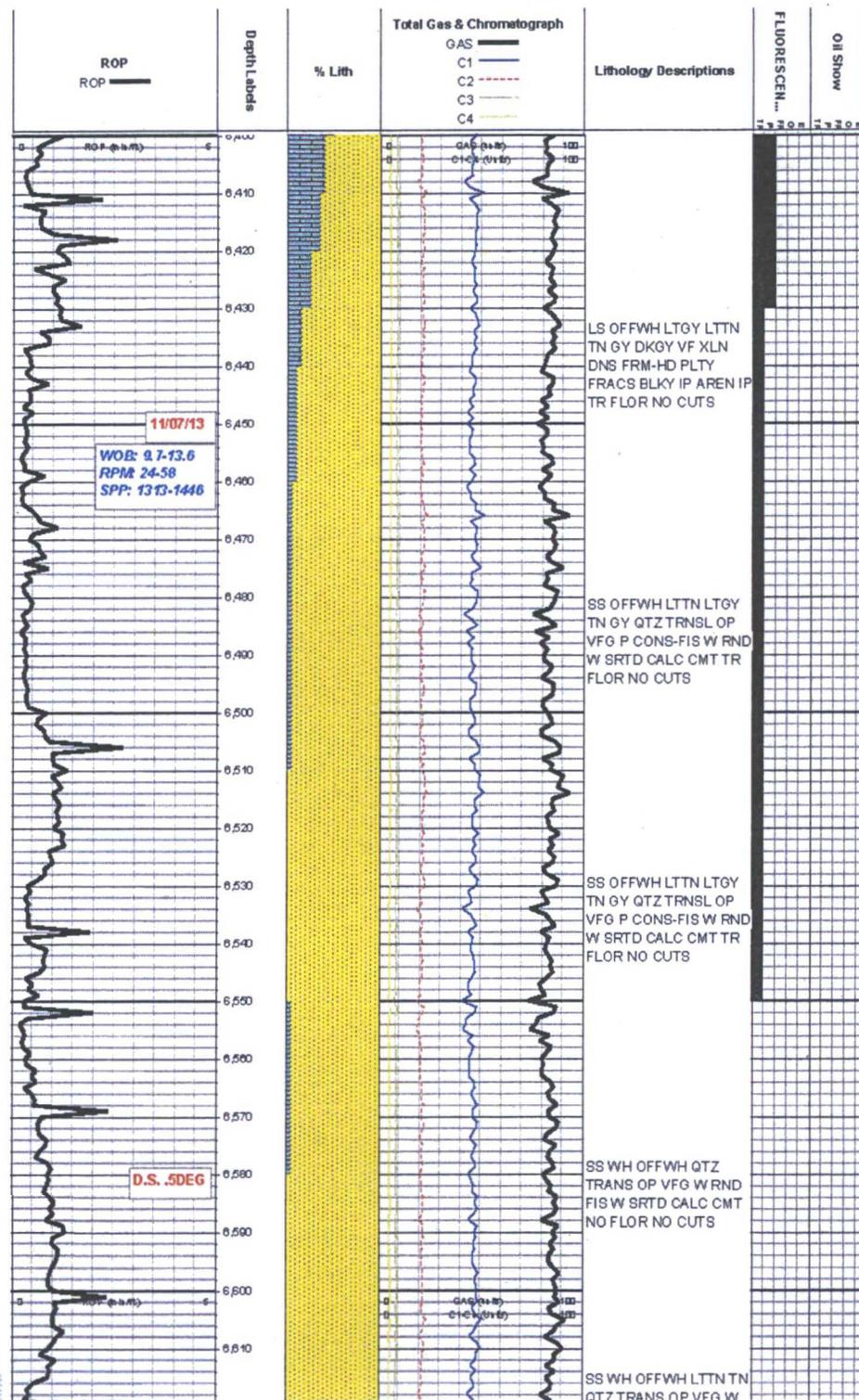
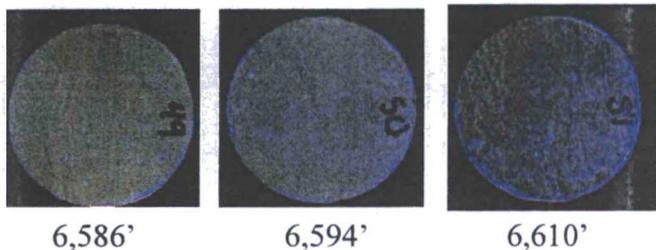


6,545' 6,556' 6,570' 6,576'



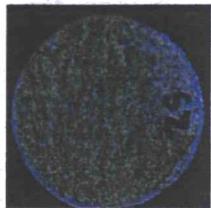
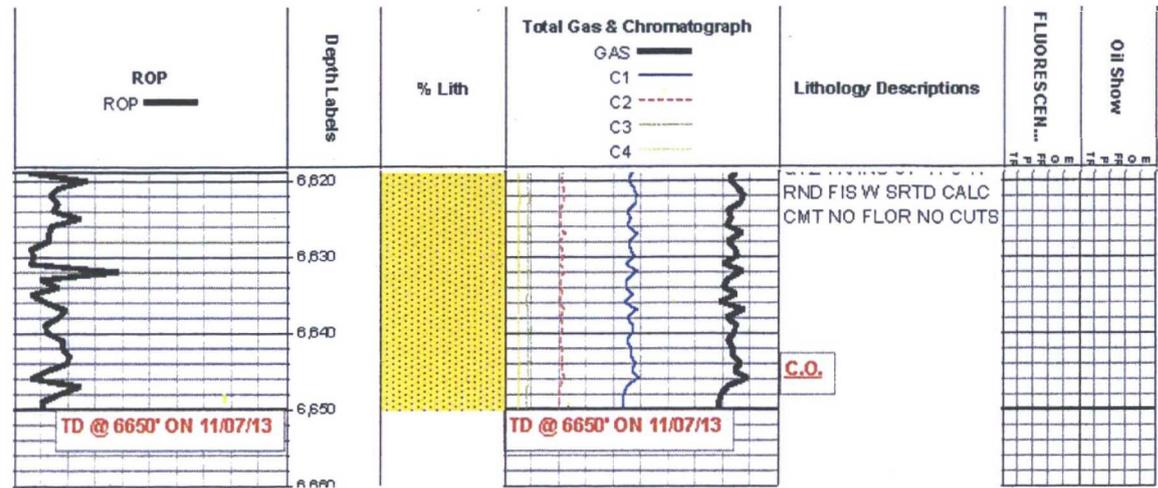
Interval from 6,400' to 6,620' Continued

- Trace gas (mainly methane) detections are shown on the mudlog that do not exceed 55u/5.5 kppm.
- Sidewall cores collected at 6404', 6410', 6420', 6430', 6440', 6450', 6460', 6469', 6470', 6480', 6490', 6508', 6517', 6518', 6530', 6540', 6545', 6556', 6570', 6576', 6586', 6594', and 6610' have mineral fluorescence with no significant shows.
- The average porosity and permeability from sidewall cores collected between 6400' and 6620' are 13.5% and 1.6 mD, respectively

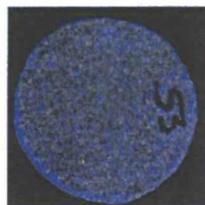


Interval from 6,620' to 6,650'

- The bottom of the injection zone is primarily composed sandstone
- Trace gas (mainly methane) detections are shown on the mudlog that do not exceed 55u/5.5 kppm.
- Sidewall cores collected at 6620' and 6630' have mineral fluorescence with no significant shows.
- The average porosity and permeability from sidewall cores collected between 6620' and 6650' are 15.1% and 1.0 mD, respectively



6,620'



6,630'

ATTACHMENT C

FORMATION FLUID EVALUATION ACROSS INJECTION INTERVAL

RED HILLS AGI #1 INJECTION ZONE FORMATION-FLUID RESULTS

Sample ID	Alkalinity, Bicarbonate	Alkalinity, Carbonate	Cl	Conductivity	pH	SO ₄	TDS	Alkalinity, Total	DRO >C10-C28	EXT DRO >C28-C36	TPH	Ca	Mg	K	Na
485 bbls. Recovered	1590	<1.0	178000	253000	5.87	897	243000	1300	5.87	2.46	8.33	26300	3790	1630	63900
522 bbls. Recovered	1460	<1.0	174000	266000	5.84	640	274000	1200	10.6	5.39	15.99	26900	4060	1640	61700
560 bbls. Recovered	1340	<1.0	170000	276000	5.85	580	247000	1100	8.75	5.16	13.91	27100	3970	1690	63800
580 bbls. Recovered	1880	<1.0	182000	278000	5.40	477	296000	1540	6.25	3.41	9.66	25900	3820	1600	60500

- Total Petroleum hydrocarbons range from 8.33 ppm to 15.99 ppm. Laboratory Analytical results are on the following pages.
- This clearly demonstrates there are no commercially available hydrocarbons .

January 05, 2018

Alberto A. Gutierrez

GEOLEX INC.

500 MARQUETTE AVE, STE. 1350

ALBUQUERQUE, NM 87102

RE: LUCID ENERGY GROUP RED HILLS AGI #1

Enclosed are the results of analyses for samples received by the laboratory on 12/28/17 10:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:GEOLEX INC.
500 MARQUETTE AVE, STE. 1350
ALBUQUERQUE NM, 87102Project: LUCID ENERGY GROUP RED HILLS
Project Number: 17-026
Project Manager: Alberto A. Gutierrez
Fax To:Reported:
05-Jan-18 11:18

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
485 BBLS RECOVERED	H703610-01	Water	23-Dec-17 00:00	28-Dec-17 10:50
522 BBLS RECOVERED	H703610-02	Water	23-Dec-17 03:00	28-Dec-17 10:50
560 BBLS RECOVERED	H703610-03	Water	23-Dec-17 06:00	28-Dec-17 10:50
580 BBLS RECOVERED	H703610-04	Water	23-Dec-17 08:00	28-Dec-17 10:50

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

GEOLEX INC. 500 MARQUETTE AVE, STE. 1350 ALBUQUERQUE NM, 87102	Project: LUCID ENERGY GROUP RED HILLS Project Number: 17-026 Project Manager: Alberto A. Gutierrez Fax To:	Reported: 05-Jan-18 11:18
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**485 BBLs RECOVERED
H703610-01 (Water)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Alkalinity, Bicarbonate	1590		5.00	mg/L	1	7121901	AC	28-Dec-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7121901	AC	28-Dec-17	310.1	
Chloride*	178000		4.00	mg/L	1	7122106	AC	28-Dec-17	4500-Cl-B	
Conductivity*	253000		1.00	uS/cm	1	7122809	AC	28-Dec-17	120.1	
pH*	5.87		0.100	pH Units	1	7122809	AC	28-Dec-17	150.1	
Sulfate*	897		250	mg/L	25	7122811	AC	29-Dec-17	375.4	
TDS*	243000		5.00	mg/L	1	7122803	AC	02-Jan-18	160.1	
Alkalinity, Total*	1300		4.00	mg/L	1	7121901	AC	28-Dec-17	310.1	

Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	5.87		1.00	mg/L	0.1	7122808	MS	29-Dec-17	8015B	
EXT DRO >C28-C36	2.46		1.00	mg/L	0.1	7122808	MS	29-Dec-17	8015B	
Surrogate: 1-Chlorooctane			95.6 %		37.1-138	7122808	MS	29-Dec-17	8015B	
Surrogate: 1-Chlorooctadecane			94.3 %		44.6-151	7122808	MS	29-Dec-17	8015B	

Green Analytical Laboratories

Total Recoverable Metals by ICP (E200.7)

Calcium*	26300		25.0	mg/L	250	B801010	JDA	04-Jan-18	EPA200.7	
Magnesium*	3790		25.0	mg/L	250	B801010	JDA	04-Jan-18	EPA200.7	
Potassium*	1630		250	mg/L	250	B801010	JDA	04-Jan-18	EPA200.7	
Sodium*	63900		250	mg/L	250	B801010	JDA	04-Jan-18	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 GEOLEX INC.
 500 MARQUETTE AVE, STE. 1350
 ALBUQUERQUE NM, 87102

 Project: LUCID ENERGY GROUP RED HILLS
 Project Number: 17-026
 Project Manager: Alberto A. Gutierrez
 Fax To:

 Reported:
 05-Jan-18 11:18

522 BBLS RECOVERED
H703610-02 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Alkalinity, Bicarbonate	1460		5.00	mg/L	1	7121901	AC	28-Dec-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7121901	AC	28-Dec-17	310.1	
Chloride*	174000		4.00	mg/L	1	7122106	AC	28-Dec-17	4500-Cl-B	
Conductivity*	266000		1.00	uS/cm	1	7122809	AC	28-Dec-17	120.1	
pH*	5.84		0.100	pH Units	1	7122809	AC	28-Dec-17	150.1	
Sulfate*	640		83.3	mg/L	8.33	7122811	AC	29-Dec-17	375.4	
TDS*	274000		5.00	mg/L	1	7122803	AC	02-Jan-18	160.1	
Alkalinity, Total*	1200		4.00	mg/L	1	7121901	AC	28-Dec-17	310.1	

Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	10.6		1.00	mg/L	0.1	7122808	MS	29-Dec-17	8015B	
EXT DRO >C28-C36	5.39		1.00	mg/L	0.1	7122808	MS	29-Dec-17	8015B	
Surrogate: 1-Chlorooctane			101 %	37.1-138		7122808	MS	29-Dec-17	8015B	
Surrogate: 1-Chlorooctadecane			101 %	44.6-151		7122808	MS	29-Dec-17	8015B	

Green Analytical Laboratories
Total Recoverable Metals by ICP (E200.7)

Calcium*	26900		25.0	mg/L	250	B801010	JDA	04-Jan-18	EPA200.7	
Magnesium*	4060		25.0	mg/L	250	B801010	JDA	04-Jan-18	EPA200.7	
Potassium*	1640		250	mg/L	250	B801010	JDA	04-Jan-18	EPA200.7	
Sodium*	61700		250	mg/L	250	B801010	JDA	04-Jan-18	EPA200.7	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 GEOLEX INC.
 500 MARQUETTE AVE, STE. 1350
 ALBUQUERQUE NM, 87102

 Project: LUCID ENERGY GROUP RED HILLS
 Project Number: 17-026
 Project Manager: Alberto A. Gutierrez
 Fax To:

 Reported:
 05-Jan-18 11:18

560 BBLs RECOVERED
H703610-03 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Alkalinity, Bicarbonate	1340		5.00	mg/L	1	7121901	AC	28-Dec-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7121901	AC	28-Dec-17	310.1	
Chloride*	170000		4.00	mg/L	1	7122106	AC	28-Dec-17	4500-Cl-B	
Conductivity*	276000		1.00	uS/cm	1	7122809	AC	28-Dec-17	120.1	
pH*	5.85		0.100	pH Units	1	7122809	AC	28-Dec-17	150.1	
Sulfate*	580		125	mg/L	12.5	7122811	AC	29-Dec-17	375.4	
TDS*	247000		5.00	mg/L	1	7122803	AC	02-Jan-18	160.1	
Alkalinity, Total*	1100		4.00	mg/L	1	7121901	AC	28-Dec-17	310.1	

Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	8.75		1.00	mg/L	0.1	7122808	MS	29-Dec-17	8015B	
EXT DRO >C28-C36	5.16		1.00	mg/L	0.1	7122808	MS	29-Dec-17	8015B	
Surrogate: 1-Chlorooctane			101 %		37.1-138	7122808	MS	29-Dec-17	8015B	
Surrogate: 1-Chlorooctadecane			98.3 %		44.6-151	7122808	MS	29-Dec-17	8015B	

Green Analytical Laboratories
Total Recoverable Metals by ICP (E200.7)

Calcium*	27100		25.0	mg/L	250	B801010	JDA	04-Jan-18	EPA200.7	
Magnesium*	3970		25.0	mg/L	250	B801010	JDA	04-Jan-18	EPA200.7	
Potassium*	1690		250	mg/L	250	B801010	JDA	04-Jan-18	EPA200.7	
Sodium*	63800		250	mg/L	250	B801010	JDA	04-Jan-18	EPA200.7	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 GEOLEX INC.
 500 MARQUETTE AVE, STE. 1350
 ALBUQUERQUE NM, 87102

 Project: LUCID ENERGY GROUP RED HILLS
 Project Number: 17-026
 Project Manager: Alberto A. Gutierrez
 Fax To:

 Reported:
 05-Jan-18 11:18

580 BBLs RECOVERED
H703610-04 (Water)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Alkalinity, Bicarbonate	1880		5.00	mg/L	1	7121901	AC	28-Dec-17	310.1	
Alkalinity, Carbonate	<1.00		1.00	mg/L	1	7121901	AC	28-Dec-17	310.1	
Chloride*	182000		4.00	mg/L	1	7122106	AC	28-Dec-17	4500-Cl-B	
Conductivity*	278000		1.00	uS/cm	1	7122809	AC	28-Dec-17	120.1	
pH*	5.40		0.100	pH Units	1	7122809	AC	28-Dec-17	150.1	
Sulfate*	477		125	mg/L	12.5	7122811	AC	29-Dec-17	375.4	
TDS*	296000		5.00	mg/L	1	7122803	AC	02-Jan-18	160.1	
Alkalinity, Total*	1540		4.00	mg/L	1	7121901	AC	28-Dec-17	310.1	

Petroleum Hydrocarbons by GC FID

DRO >C10-C28*	6.25		1.00	mg/L	0.1	7122808	MS	29-Dec-17	8015B	
EXT DRO >C28-C36	3.41		1.00	mg/L	0.1	7122808	MS	29-Dec-17	8015B	
Surrogate: 1-Chlorooctane			91.2 %		37.1-138	7122808	MS	29-Dec-17	8015B	
Surrogate: 1-Chlorooctadecane			91.8 %		44.6-151	7122808	MS	29-Dec-17	8015B	

Green Analytical Laboratories
Total Recoverable Metals by ICP (E200.7)

Calcium*	25900		25.0	mg/L	250	B801010	JDA	04-Jan-18	EPA200.7	
Magnesium*	3820		25.0	mg/L	250	B801010	JDA	04-Jan-18	EPA200.7	
Potassium*	1600		250	mg/L	250	B801010	JDA	04-Jan-18	EPA200.7	
Sodium*	60500		250	mg/L	250	B801010	JDA	04-Jan-18	EPA200.7	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 GEOLEX INC.
 500 MARQUETTE AVE, STE. 1350
 ALBUQUERQUE NM, 87102

 Project: LUCID ENERGY GROUP RED HILLS
 Project Number: 17-026
 Project Manager: Alberto A. Gutierrez
 Fax To:

 Reported:
 05-Jan-18 11:18

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7121901 - General Prep - Wet Chem										
Blank (7121901-BLK1) Prepared & Analyzed: 19-Dec-17										
Alkalinity, Carbonate	ND	1.00	mg/L							
Alkalinity, Bicarbonate	10.0	5.00	mg/L							
Alkalinity, Total	8.00	4.00	mg/L							
LCS (7121901-BS1) Prepared & Analyzed: 19-Dec-17										
Alkalinity, Carbonate	ND	2.50	mg/L				80-120			
Alkalinity, Bicarbonate	330	12.5	mg/L				80-120			
Alkalinity, Total	270	10.0	mg/L	250		108	80-120			
LCS Dup (7121901-BSD1) Prepared & Analyzed: 19-Dec-17										
Alkalinity, Carbonate	ND	2.50	mg/L				80-120		20	
Alkalinity, Bicarbonate	318	12.5	mg/L				80-120	3.86	20	
Alkalinity, Total	260	10.0	mg/L	250		104	80-120	3.77	20	
Batch 7122106 - General Prep - Wet Chem										
Blank (7122106-BLK1) Prepared & Analyzed: 21-Dec-17										
Chloride	ND	4.00	mg/L							
LCS (7122106-BS1) Prepared & Analyzed: 21-Dec-17										
Chloride	104	4.00	mg/L	100		104	80-120			
LCS Dup (7122106-BSD1) Prepared & Analyzed: 21-Dec-17										
Chloride	104	4.00	mg/L	100		104	80-120	0.00	20	
Batch 7122803 - Filtration										
Blank (7122803-BLK1) Prepared: 28-Dec-17 Analyzed: 02-Jan-18										
TDS	ND	5.00	mg/L							

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 GEOLEX INC.
 500 MARQUETTE AVE, STE. 1350
 ALBUQUERQUE NM, 87102

 Project: LUCID ENERGY GROUP RED HILLS
 Project Number: 17-026
 Project Manager: Alberto A. Gutierrez
 Fax To:

 Reported:
 05-Jan-18 11:18

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7122803 - Filtration										
LCS (7122803-BS1)				Prepared: 28-Dec-17 Analyzed: 02-Jan-18						
TDS	218	5.00	mg/L	213		102	80-120			
Duplicate (7122803-DUP1)				Source: H703604-03 Prepared: 28-Dec-17 Analyzed: 02-Jan-18						
TDS	21800	5.00	mg/L		21400			1.73	20	
Batch 7122809 - General Prep - Wet Chem										
LCS (7122809-BS1)				Prepared & Analyzed: 28-Dec-17						
pH	7.23		pH Units	7.00		103	90-110			
Conductivity	101000		uS/cm	100000		101	80-120			
Duplicate (7122809-DUP1)				Source: H703610-01 Prepared & Analyzed: 28-Dec-17						
pH	5.88	0.100	pH Units		5.87			0.170	20	
Conductivity	279000	1.00	uS/cm		253000			9.93	20	
Batch 7122811 - General Prep - Wet Chem										
Blank (7122811-BLK1)				Prepared: 28-Dec-17 Analyzed: 29-Dec-17						
Sulfate	ND	10.0	mg/L							
LCS (7122811-BS1)				Prepared: 28-Dec-17 Analyzed: 29-Dec-17						
Sulfate	23.4	10.0	mg/L	20.0		117	80-120			
LCS Dup (7122811-BSD1)				Prepared: 28-Dec-17 Analyzed: 29-Dec-17						
Sulfate	24.0	10.0	mg/L	20.0		120	80-120	2.32	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

GEOLEX INC. 500 MARQUETTE AVE, STE. 1350 ALBUQUERQUE NM, 87102	Project: LUCID ENERGY GROUP RED HILLS Project Number: 17-026 Project Manager: Alberto A. Gutierrez Fax To:	Reported: 05-Jan-18 11:18
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Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7122808 - General Prep - Organics
Blank (7122808-BLK1)

Prepared: 28-Dec-17 Analyzed: 29-Dec-17

GRO C6-C10	ND	1.00	mg/L							
DRO >C10-C28	ND	1.00	mg/L							
EXT DRO >C28-C35	ND	1.00	mg/L							
EXT DRO >C28-C36	ND	1.00	mg/L							
Surrogate: 1-Chlorooctane	4.15		mg/L	5.00		82.9	37.1-138			
Surrogate: 1-Chlorooctadecane	4.63		mg/L	5.00		92.6	44.6-151			

LCS (7122808-BS1)

Prepared: 28-Dec-17 Analyzed: 29-Dec-17

GRO C6-C10	46.2	1.00	mg/L	50.0		92.4	72.8-108			
DRO >C10-C28	48.5	1.00	mg/L	50.0		97.0	77.5-117			
EXT DRO >C28-C35	0.394	1.00	mg/L	0.00			0-0			
Surrogate: 1-Chlorooctane	4.31		mg/L	5.00		86.2	37.1-138			
Surrogate: 1-Chlorooctadecane	4.64		mg/L	5.00		92.7	44.6-151			

LCS Dup (7122808-BSD1)

Prepared: 28-Dec-17 Analyzed: 29-Dec-17

GRO C6-C10	46.8	1.00	mg/L	50.0		93.6	72.8-108	1.35	12	
DRO >C10-C28	48.6	1.00	mg/L	50.0		97.3	77.5-117	0.305	12.1	
EXT DRO >C28-C35	ND	1.00	mg/L	0.00			0-0		20	
Surrogate: 1-Chlorooctane	4.49		mg/L	5.00		89.7	37.1-138			
Surrogate: 1-Chlorooctadecane	4.90		mg/L	5.00		98.0	44.6-151			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

GEOLEX INC. 500 MARQUETTE AVE, STE. 1350 ALBUQUERQUE NM, 87102	Project: LUCID ENERGY GROUP RED HILLS Project Number: 17-026 Project Manager: Alberto A. Gutierrez Fax To:	Reported: 05-Jan-18 11:18
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Total Recoverable Metals by ICP (E200.7) - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B801010 - Total Rec. 200.7/200.8/200.2										
Blank (B801010-BLK1)										
Prepared: 03-Jan-18 Analyzed: 04-Jan-18										
Sodium	ND	1.00	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Calcium	ND	0.100	mg/L							
LCS (B801010-BS1)										
Prepared: 03-Jan-18 Analyzed: 04-Jan-18										
Magnesium	19.8	0.100	mg/L	20.0		99.2	85-115			
Potassium	8.13	1.00	mg/L	8.00		102	85-115			
Calcium	3.92	0.100	mg/L	4.00		98.0	85-115			
Sodium	6.32	1.00	mg/L	6.48		97.6	85-115			
LCS Dup (B801010-BSD1)										
Prepared: 03-Jan-18 Analyzed: 04-Jan-18										
Magnesium	19.9	0.100	mg/L	20.0		99.3	85-115	0.0902	20	
Potassium	7.91	1.00	mg/L	8.00		98.9	85-115	2.68	20	
Calcium	3.92	0.100	mg/L	4.00		98.0	85-115	0.0158	20	
Sodium	6.31	1.00	mg/L	6.48		97.4	85-115	0.231	20	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500C-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Geolex, Inc.				BILL TO				ANALYSIS REQUEST															
Project Manager: Alberto A Gutierrez				P.O. #:																			
Address: 500 Marquette Ave. NW #1350				Company: Geolex, Inc.																			
City: Albuquerque		State: NM		Zip: 87102		Attn: Liz Hill																	
Phone #: (505) 842-8000		Fax #: aag@geolex.com		Address: 500 Marquette 1350																			
Project #: 17-026		Project Owner: Geolex		City: Albuquerque																			
Project Name: Lucid Energy Group Red Hills AGI #1				State: NM																Zip: 87102			
Project Location: Sec 13 (I), T24S, R33E, Lea Co., NM				Phone #: (505) 842-8000																			
Sampler Name: Dale Littlejohn				Fax #: liz@geolex.com																			
<small>FOR LAB USE ONLY</small>																							
Lab I.D.	Sample I.D.	(G)RAS OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING		Cations/Anions	TDS	PH	Conductivity	TPH BOLS (DRO, ext DRO)					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	DATE						TIME				
H703e10																							
1	485 bbls Recovered	G	5							✓	✓		12/23	00:00	✓	✓	✓	✓	✓				
2	522 bbls Recovered	G	5							✓	✓		12/23	03:00	✓	✓	✓	✓	✓				
3	560 bbls Recovered	G	5							✓	✓		12/23	06:00	✓	✓	✓	✓	✓				
4	580 bbls Recovered	G	5							✓	✓		12/23	08:00	✓	✓	✓	✓	✓				

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Relinquished By: Dale Littlejohn		Date: 12/27	Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: 1500			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: [Signature]		Date: 12-28-17	Received By: [Signature]		REMARKS: <i>Push!!</i>	
		Time: 10:50				
Delivered By: (Circle One) 1.22		Sample Condition		CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other: Corrected 155		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		#15		

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326