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AGI D #2 wi Montoya For obtain this a hydrocarbor DCP an exte geophysical NMOCC-ap well was sw showed no v analyzed (A	thin the NMOCC-a mations (injection pproval, DCP is re- potential of the a msive analysis of logs, mud logs, ca proved injection za abbed to remove of isible evidence of tachment C), and	this request for permissio approved injection zone we zone) consistent with the aquired to assess the pre- pproved injection zone. T the detailed well logs for oblection and analysis of s one from 13,625? to 14,75 over 500 bbls of formation hydrocarbons (no sheen the rest of the reservoir f I inspection and TPH res	vithin the Devo e approved AP sence or abser fo accomplish to the well includ sidewall core si 50? (see Attac n fluid and 10 so fluid chemistry	nian, Wristen, F D for this well. nee of commerc his Geolex has ing a full suite of amples retrieved hments A and B samples were co aration). TPH has will be reported	usselman, a In order to ially-recove conducted f f from the). In additio lected whit as already b to the BLM	rable for on, the ch een	+-
14. I hereby certi	y that the foregoing is		Vo Hy	d-0C2	rbon	report	
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Name (Printed)	Typed) ALBERTC					DCP MIDSTREM, L	Р
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Additional data for EC transaction #361970 that would not fit on the form

32. Additional remarks, continued

lack of commercially-recoverable hydrocarbons in the NMOCC-approved injection zone. The results of this detailed analysis, which are summarized on this form and its three attachments (Attachments A, B and C) clearly demonstrate that the proposed injection zone does not contain any commercially-recoverable hydrocarbons and will serve as a suitable injection zone for the proposed injection fluid.

The injection zone has been extensively analyzed using all available data obtained during the drilling of the Zia AGI D #2 in November to December 2016. The results of these analyses clearly demonstrate that the minor indications of trace hydrocarbons detected in isolated thin portions of the proposed injection zone are not commercially-recoverable and the zones are wet with very high residual water saturations. These values range from 2 to 26 ppm TPHs. Based on the analyses detailed in the attachments to this form, DCP requests BLM concurrence that there are no commercially-recoverable hydrocarbons in the injection zone, and approval proceed with reservoir testing, and final completion of the well. DCP will conduct an extensive series of injection zone. BLM will be notified of these tests, and the test results will also be provided to the BLM following analysis by DCP and their consultants. This work will be conducted under the current BLM bond for this well, which is Bond number 105982905 already on file with the BLM.

ATTACHMENT A

DEMONSTRATION OF NO COMMERCIALLY-RECOVERABLE HYDROCARBONS IN THE DEVONIAN THROUGH UPPER MONTOYA PERMITTED INJECTION INTERVAL

EVALUATION OF GEOPHYSICAL LOGS, SIDEWALL CORE, AND FORMATION FLUID SAMPLES

Sec. 19- Twp. 19S-32E Lea County, New Mexico

> Prepared For: DCP Midstream LP

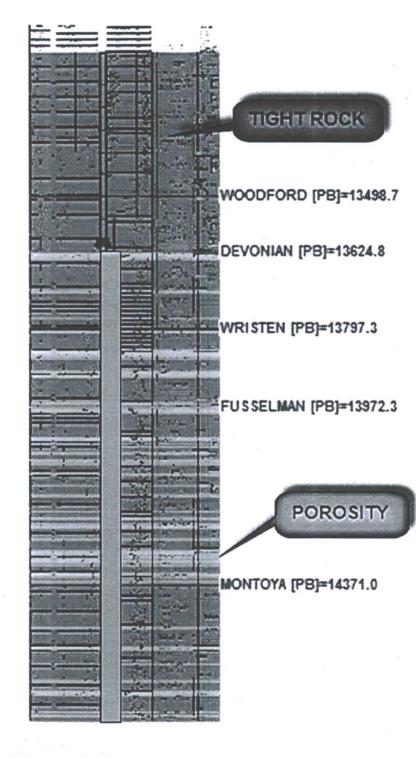
Prepared By: Geolex, Inc. 500 Marquette, NW Suite 1350 Albuquerque, NM 87102

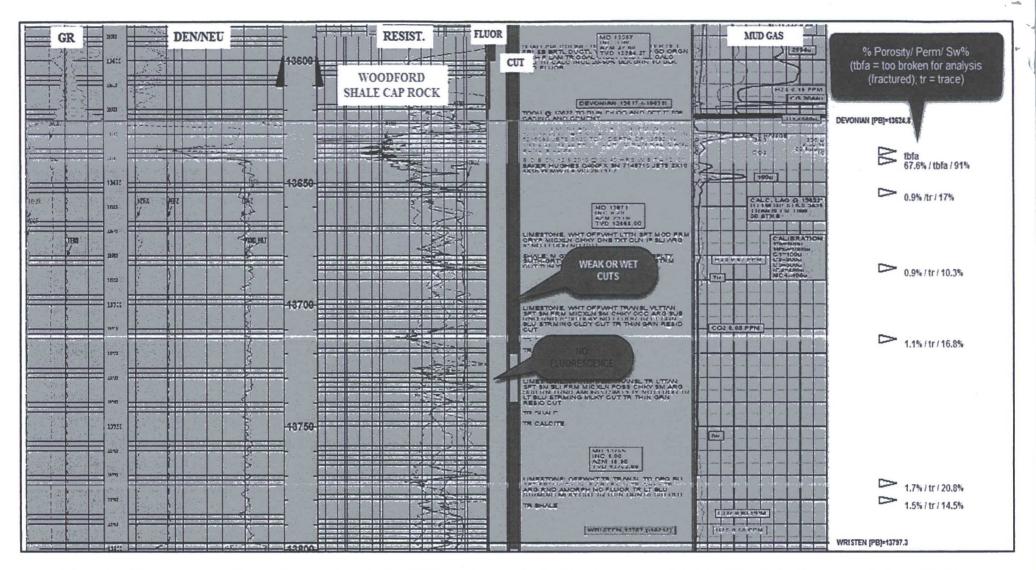
December 22, 2016

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

- The successful evaluation of commercially-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.
- Obviously injection and fall off testing will result in direct observation of injection pressures at varying flowrates and will be considered in addition to the analyses presented herein to predict the ultimate injection performance of the reservoir.
- In the following pages, we have divided the injection interval into 1 complete log segment and 4 log composite segments to integrate the results of the sidewall core analyses and mudlog monitoring, the lithologic architecture of the interval, and the preliminary proposed injection perforations. These consolidated log composites along with the supporting data form the basis for the determination of no commercially-recoverable hydrocarbons in the proposed injection zone.
- Attachment B includes the detailed evaluation of the mudlog and sidewall cores; which are also discussed in conjunction with the geophysical logs on the following pages. In addiction to the geophysical logs and mudlogs, formation fluid samples that were collected after swabbing over 500bbls from the injection zone provide further confirmation of the lack of commercially-recoverable hydrocarbons (Attachment C) within the NMOCC-approved injection zone from the Devonian top at 13,625' to 14,750' in the Devonian, Wristen, Fusselman and Montoya Formations.

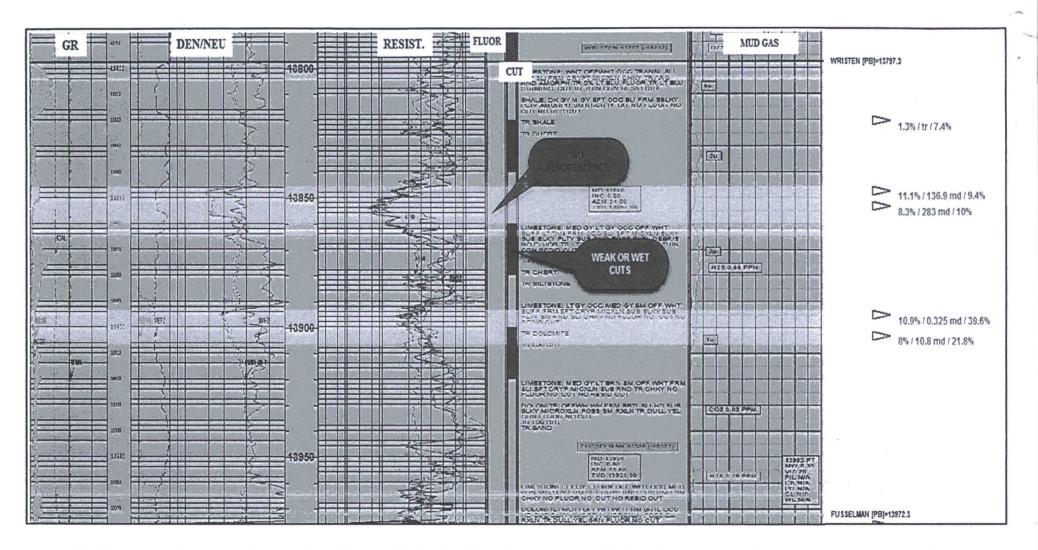
The NMOCC-approved injection interval (blue bar) is composed of tight limestones and dolomitic carbonates (darker shading), interspersed with porous carbonates (yellow shading) that are locally solution-enhanced by late-stage diagenesis. Openhole injection is proposed for the entire interval from the top of the Devonian through the upper Montoya, to a total depth of approximately 14,750 feet MD. Tight facies (caprock) occur above the injection zone, with no porosity evident all the way up to and including the Chester (Upper Mississippian) Formation.





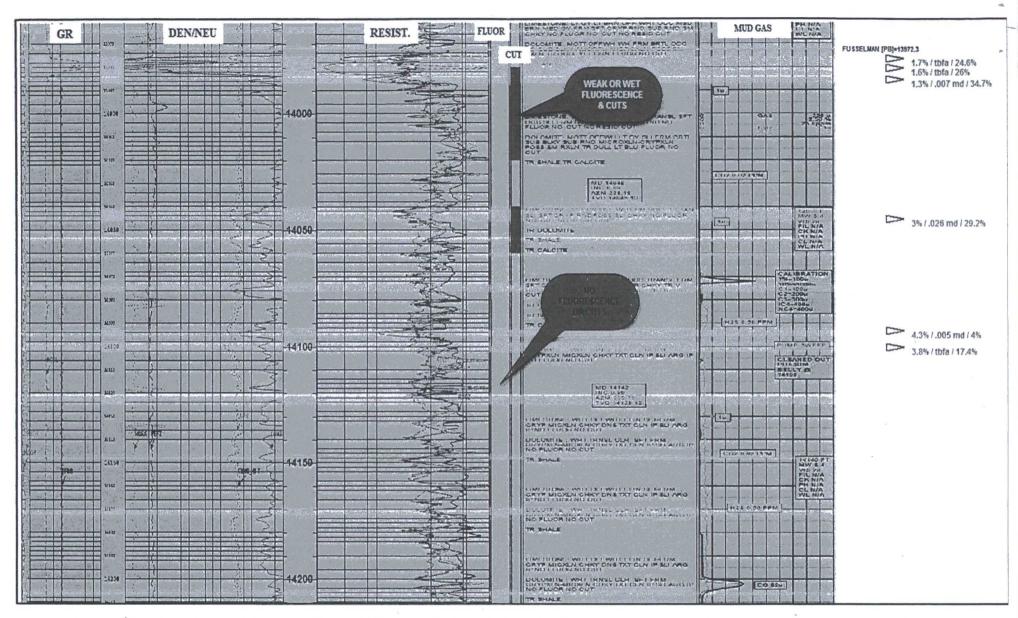
For each of the composite log sections through the NMOCC-approved injection interval, yellow shading denotes porous rock, and light brown shading indicates tight (cap) rock. This section of the injection zone, which shows the Devonian Thirtyone Formation, is characterized by no shows of fluorescence, and weak cuts that generally denote wet rock. There are no significant shows of mud gas through the Devonian; gas shows above are from shale gas in the Woodford Formation. Sidewall core analytical data (far right track) demonstrate no oil saturation in any of the 43 cores collected through the entire injection interval.

INCORPORATED



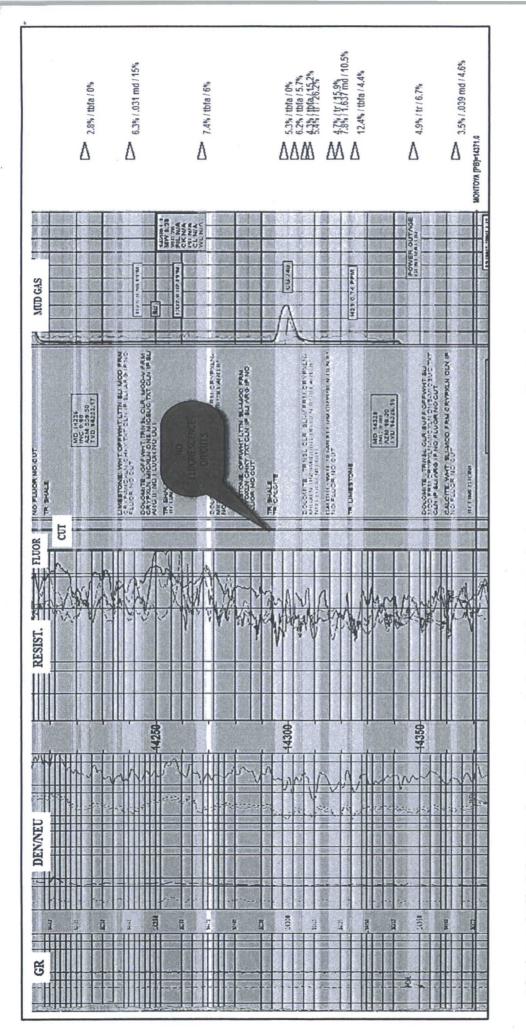
The log composite through the Wristen (Upper Silurian) section shows no sample fluorescence, sporadic weak cuts, and no mud gas. Sidewall core analyses show no oil saturation across this formation.





The upper half of the Fusselman (Lower Silurian) section only shows weak cuts and very weak fluorescence in the upper part of the section, with no fluorescence, cuts, or mud gas (other than connection gas) below. No oil saturations were reported in any of the sidewall cores.

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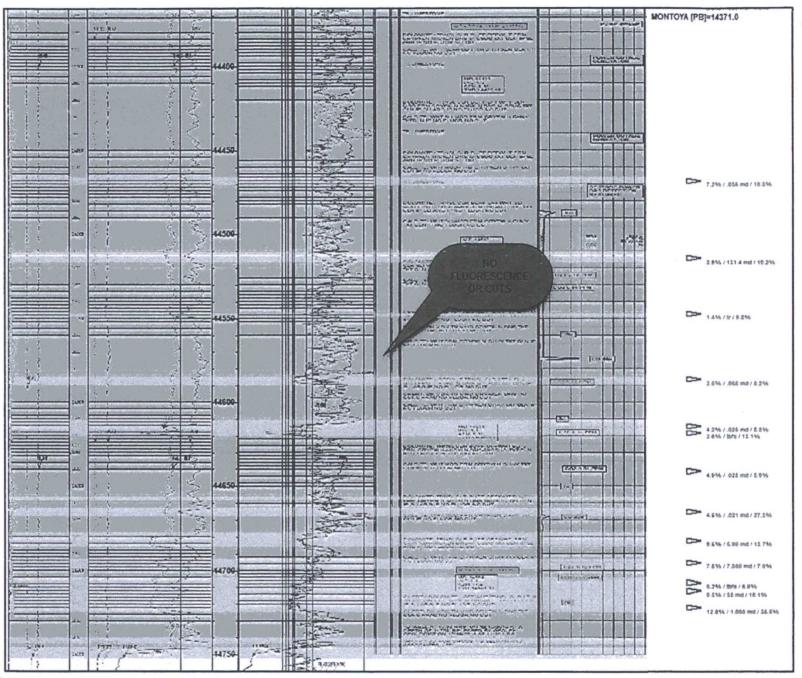


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The lower half of the Fusselman Formation is devoid of any sample shows, cuts, or core oil saturation.



The Montoya Formation (Upper Ordovician) is devoid of any sample fluorescence, cuts, or mud gas, and like the rest of the injection interval, does not have any oil saturation detected in sidewall cores.





11112

RESERVOIR CHARACTERISTICS OF THE NMOCC-APPROVED INJECTION INTERVAL CONCLUSIVELY DEMONSTRATE LACK OF COMMERCIALLY-RECOVERABLE HYDROCARBONS

The NMOCC-approved injection zone is comprised of the porous carbonates of the Devonian Thirtyone, Wristen, Fusselman, and upper Montoya Formations in the Zia AGI D #2 well. This interval is clearly not productive of commercially-recoverable hydrocarbons in the area. Porosity in these carbonates ranges from isolated vugs and interstitial dolomite porosity, to secondarily solution-enhanced porosity.

Mudlog sample shows throughout the injection interval are essentially absent and the few shows which were noted were very weak. Sample cuts, in the few places found, were likewise weak and very localized, with either no or minor natural gas shows at these locations. <u>Sample cuts indicate wet formation conditions over the entire injection interval. These factors clearly</u> <u>demonstrate a lack of any movable (commercially-recoverable) hydrocarbons.</u>

Sidewall core results only indicate mineral fluorescence, with no shows of hydrocarbon fluorescence across the entire NMOCC-approved injection interval of 13,625' (top Devonian) to 14,750' (Upper Montoya). <u>When these results are</u> <u>combined with the lack and quality of mudlog shows, this interval clearly lacks any commercially-recoverable hydrocarbons.</u>

Formation gas shows are absent over the entire injection interval; the only gas shows are from the tight Woodford Shale that forms the first cap rock above the injection interval. <u>This is another independent confirmation of the lack of commercially-</u> recoverable hydrocarbons over the NMOCC-approved injection interval.

The well was swabbed to remove over 500 bbls of formation fluid as required by the BLM COAs on the completion sundry. The swabbing resulted in only a minor lowering of the water level of less than 8% of fluid column in the well due to the high permeability of the injection zone. All of the fluid sampled was aqueous with some samples having a slight sour gas smell but no visible sheens or phase separated hydrocarbons observed after settling for over 24 hours. Ten fluid samples were taken from the last 100 bbls. swabbed. These samples have TPH that range from 2.4 - 26.1 ppm. *The swabbing results confirm the lack of commercially recoverable hydrocarbons in the NMOCC-approved injection zone from 13,625' to 14,750'*.

END OF ATTACHMENT A

ATTACHMENT B

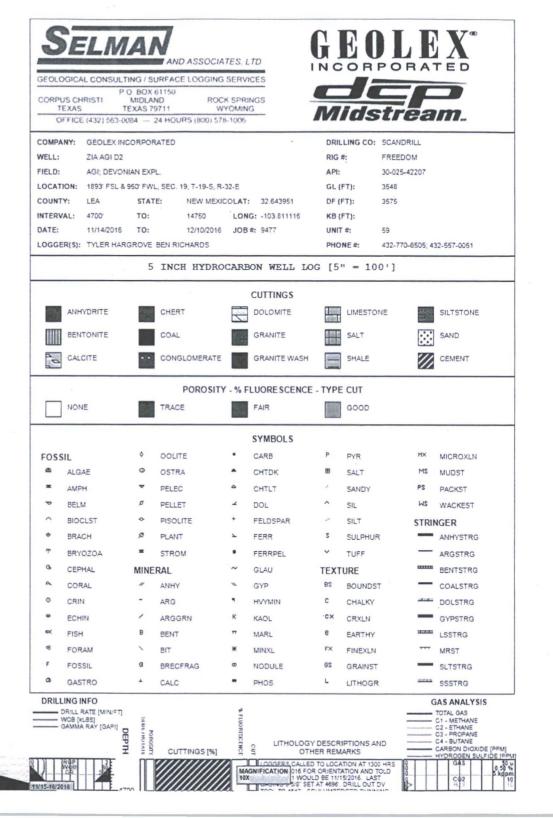
MUDLOG EVALUATION FROM 13,590' TO 14,750' (TD)



Selman Mudlog Header

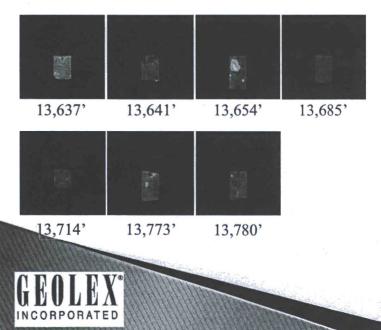
- The contents of the mudlog, including all symbols and readings, are described here.
- Fluorescence from sidewall cores collected across the injection interval were analyzed by Weatherford Laboratories.
- Sidewall core results show no notable sample fluorescence or shows across the entire injection interval. Sidewall core locations are discussed below.

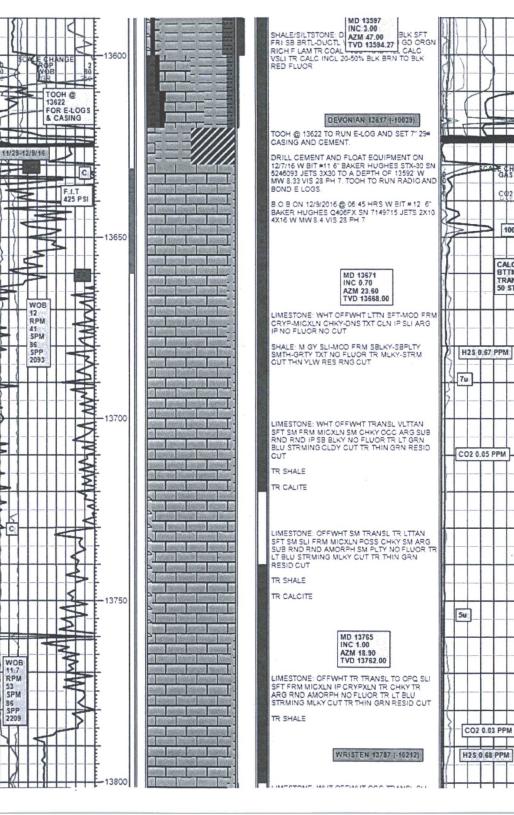
INCORPORATED



Interval from 13,590' to 13,800'

- The top of the injection interval is . primarily composed of limestone.
- Minor gas detections are shown on the mudlog near the top of the injection zone that do not exceed 25u/2.5 kppm. The rest of this section shows no notable gas detections.
- Sidewall cores collected at 13,637', . 13,641', 13,654', 13,685', 13,714', 13,773', and 13,780' have no notable fluorescence or shows.





2034u

H25 0.19 PPM

CG 3044u

TG 7840u

250

25 kppm

100u

50 STKS

CALC. LAG @ 13622 BTTM UP STKS 3491

CALIBRATION

1%=100u

C1=100u

C2=200u

C3=300u

1C4=400u

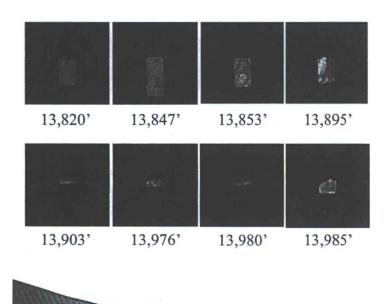
NC4=400u

10%=10000

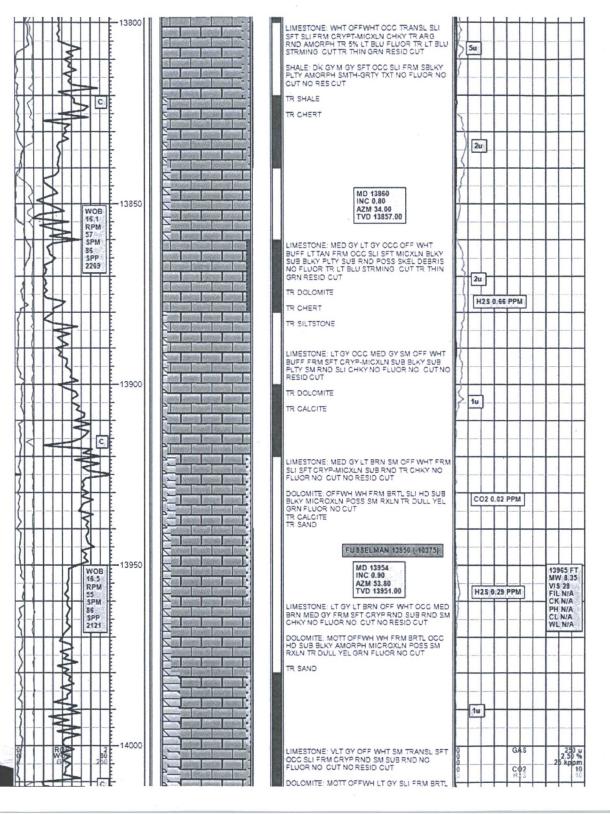
TRANSFER TIME

Interval from 13,800' to 14,010'

- This section of the injection zone is primarily composed of limestone.
- There are no natural gas readings across this interval, with minor H₂S showings.
- Sidewall cores collected at 13,820', 13,847', 13,853', 13,895', 13,903', 13,976', 13,980', and 13,985' have no notable fluorescence or shows.

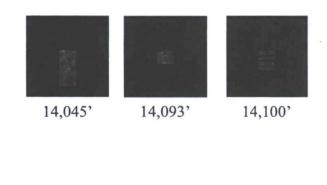


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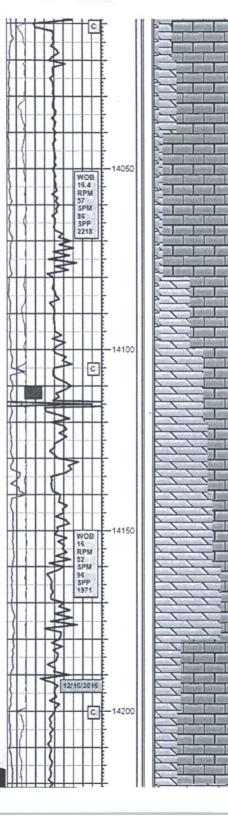


Interval from 14,010' to 14,220'

- This section of the injection zone is primarily composed of limestone and dolomite.
- There are two minor localized natural gas showings at 14,072' and 14,203'. The total gas for both of these shows does not exceed 22 u/2.2 kppm.
- Sidewall cores collected at 14,045', 14,093', and 14,100' have no notable fluorescence or shows.



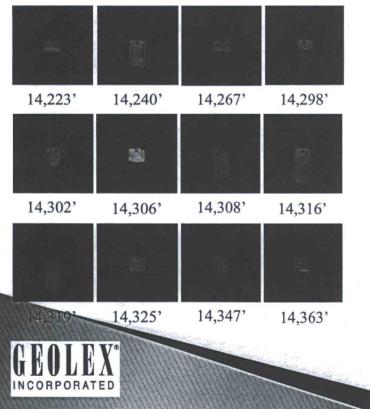
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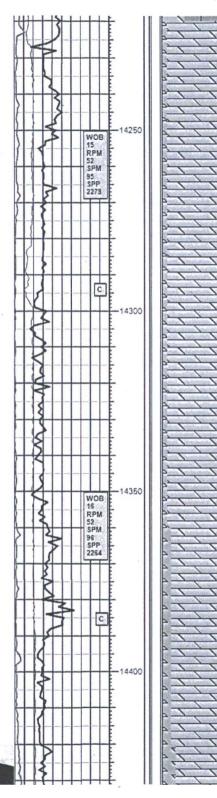


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	CO2 0.02 P	PM	-
MD 14048 INC 0.80			+
AZM 339.10 TVD 14045.19			+
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Interval from 14,220' to 14,430'

- This section of the injection zone is primarily composed of dolomite.
- There is 1 minor localized natural gas detection around 14,300', which does not exceed 15u/1.5 kppm.
- Sidewall cores collected at 14,223', 14,240', 14,267', 14,298', 14,302', 14,306', 14,308', 14,316', 14,319', 14,325', 14,347', and 14,363' have no notable fluorescence or shows.

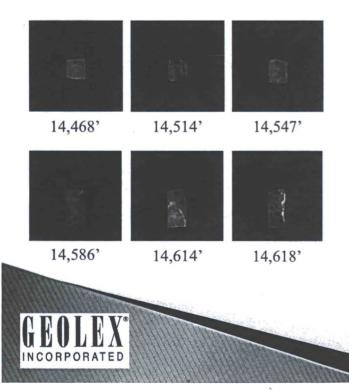


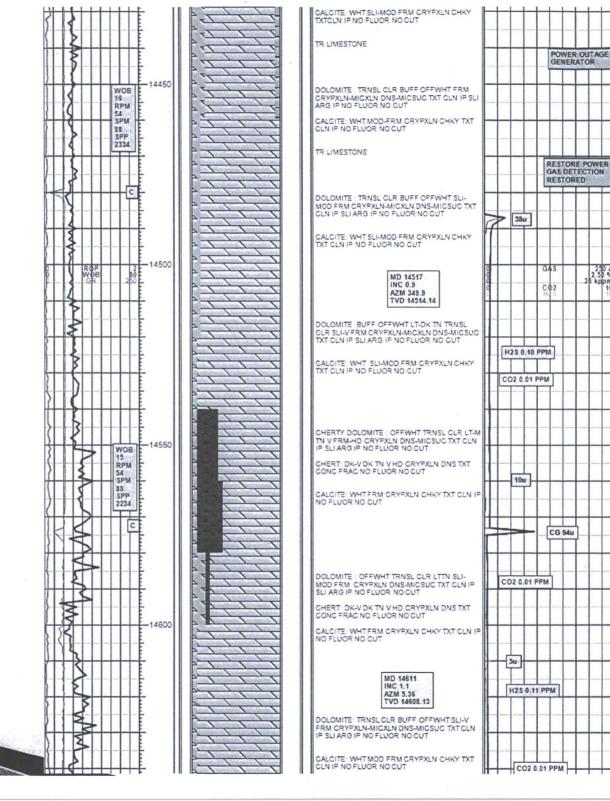


MD 14236 INC 0.60 AZM 359.30 TVD 14233.17	
LIMESTONE: WHT OFFWHT LITN SLI-MOD FRM GRYP-MIGXLN CHKY TXT CLN IP SLI ARG IP NO FLUOR NO GUT DOLOMITE : OFFWHT TRNSL CLR MOD-V FRM CRYPXLN-MICXLN DNS-MICSUC TXT CLN IP SLI ARG IP NO FLUOR NO CUT TR SHALE TR CALCITE	H2S 0.50 PPM Gu 14280 FT MW 8.33 CO2 0.02 PPM FIL M/A
DOLOMITE : TRNSL CLR SLI-V FRM CRYPXLN- MICXLN DNS-MICSUC TXT CLN IP SLI ARG IP NO FLUCR NO CUT LIMESTONE: OFFWHT LTTN SLI-MOD FRM	CK N/A PH N/A CL N/A WL N/A WL N/A
CRYOXLN CHKY TXT CLN IP SLI ARG IP NO FLUOR NO CUT TR SHALE TR CALCITE DOLOMITE : TRNSL CLR SLI-V FRM CRYPXLN-	CG 74u
MICXLN DNS-MICSUC TXT CLN IP SLI ARG IP NO FLUOR NO CUT CALCITE: WHT SLI-MOD FRM CRYPXLN CLN IP NO FLUOR NO CUT TR LIMESTONE	H2S 0.74 PPM
MD 14329 INC 0.80 AZM 10.20 TVD 14326.16	POWER OUTAGE GENERATOR
DOLOMITE - TRNSL CLR BUFF OFFWHT SU- MOD FRM CRYPXLM-MICXUD NS-MICSUC TXT CLN IP SLI ARG IP NO FLUOR NO CUT CALCITE: WHT SLI-MOD FRM CRYFXLN CLN IP NO FLUOR NO CUT TR LIMESTONE	
MONTOYA 14325 (-16751) DOLOMITE : TRNSL CLR BUFF OFFWHT FRM CRYFXLN-MICKUN DNS-MICSUC TXT CLN IP SLI ARG IP NO FLUOR NO CUT CALCITE: WHT SLI-MOD FRM CRYPXLN CLN IP NO FLUOR NO CUT	PUMP SWEEP
TR LIMESTONE MD 14423 INC 1.0 AZM 9.90	POWER OUTAGE GENERATOR
TVD 14420.15 DOLOMITE : TRNSL CLR BUFF OFFWHT SLI- MOD FRM CRYPXLN-MICXLN DNS-MIOSUC TXT CLN IP SLI ARG IP NO FLUOR NO CUT CALCITE: WHT SLI-MOD FRM CRYPXLN CHKY	

Interval from 14,430' to 14,640'

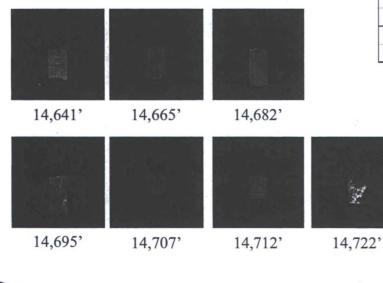
- This section of the injection zone is primarily composed of dolomite.
- There is one minor localized natural gas detection around 14,574', which does not exceed 20u/2.0 kppm.
- Sidewall cores collected at 14,468', 14,514', 14,547', 14,586', 14,614', and 14,618 have no notable fluorescence or shows.

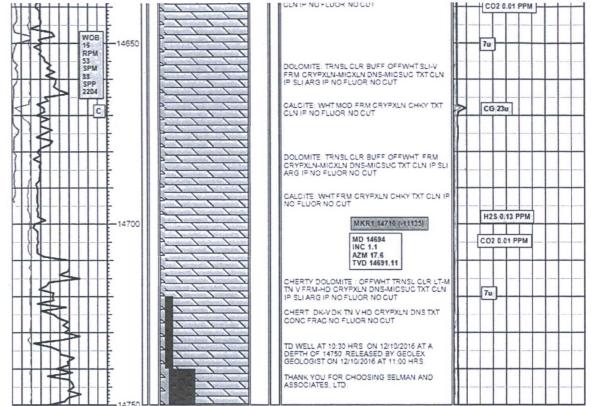




Interval from 14,640' to 14,750' (TD)

- This section of the injection zone is primarily composed of dolomite.
- There is little to no significate natural gas shown across this interval.
- Sidewall cores collected at 14,641', 14,665', 14,682', 14,695', 14,707', 14,712', and 14,722' have no notable fluorescence or shows.





ATTACHMENT C

FORMATION FLUID EVALUATION ACROSS INJECTION INTERVAL



ZIA AGI D #2 INJECTION ZONE FORMATION-FLUID RESULTS								
SAMPLE #	DRO	EXT DRO	ТРН					
1-402 bbls	20.5	5.58	26.1					
2-415 bbls	12.1	3.65	15.8					
3-435 bbls	6.53	2.3	8.8					
4-445 bbls	1.48	1	2.5					
5-455 bbls	2.1	1	3.1					
6-470 bbls	2.94	1.09	4.0					
7-480 bbls	3.59	1.06	4.7					
8-490 bbls	3.08	1	4.1					
9-500 bblos	1.43	1	2.4					
10-515 bbls	3.01	1	4.0					

- Total petroleum hydrocarbons from the last 100 barrels of swabbed fluid range from 2.4 to 26.1 ppm. Laboratory Analytical results are on the following pages.
- This clearly demonstrates there are no commercially available hydrocarbons.



December 22, 2016

ALBERTO GUTIERREZ GEOLEX, INC. 500 MARQUETTE AVE. NW #1350 ALBUQUERQUE, NM 87102

RE: DCP ZIA AGI D #2 (FORMATION WATER)

Enclosed are the results of analyses for samples received by the laboratory on 12/21/16 13:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 accredited certif.html.

Cardinal Laboratories is accreditated 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. Keine



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Analytical Results For:

GEOLEX, INC. 500 MARQUETTE AVE. NW #1350 ALBUQUERQUE NM, 87102	Project Number:	DCP ZIA AGI D #2 (FORMATION W 16-012 ALBERTO GUTIERREZ	Reported: 22-Dec-16 10:23
--	-----------------	--	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NO. 1 402 BBLS	H602848-01	Wastewater	21-Dec-16 08:25	21-Dec-16 13:23
NO. 2 415 BBLS	H602848-02	Wastewater	21-Dec-16 08:45	21-Dec-16 13:23
NO. 3 435 BBLS	H602848-03	Wastewater	21-Dec-16 09:02	21-Dec-16 13:23
NO. 4 445 BBLS	H602848-04	Wastewater	21-Dec-16 09:35	21-Dec-16 13:23
NO. 5 455 BBLS	H602848-05	Wastewater	21-Dec-16 09:50	21-Dec-16 13:23
NO. 6 470 BBLS	H602848-06	Wastewater	21-Dec-16 10:10	21-Dec-16 13:23
NO. 7 480 BBLS	H602848-07	Wastewater	21-Dec-16 10:25	21-Dec-16 13:23
NO. 8 490 BBLS	H602848-08	Wastewater	21-Dec-16 10:44	21-Dec-16 13:23
NO. 9 500 BBLS	H602848-09	Wastewater	21-Dec-16 11:00	21-Dec-16 13:23
NO. 10 515 BBLS	H602848-10	Wastewater	21-Dec-16 11:11	21-Dec-16 13:23

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Analytical Results For:

GEOLEX, INC. 500 MARQUETTE AVE. NW #1350 ALBUQUERQUE NM, 87102	Project Number:	DCP ZIA AGI D #2 (FORMATION W 16-012 ALBERTO GUTIERREZ	Reported: 22-Dec-16 10:23
--	-----------------	--	------------------------------

NO. 1 402 BBLS

H602848-01 (Wastewater)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Petroleum Hydrocarbons by GC FID										
DRO >C10-C28	20.5		1.00	mg/L	0.1	6122108	MS	21-Dec-16	8015B	

			C					
EXT DRO >C28-C35	5.58	1.00	mg/L	0.1	6122108	MS	21-Dec-16	8015B
Surrogate: 1-Chlorooctane		48.3 %	34.8-13	1	6122108	MS	21-Dec-16	8015B
Surrogate: 1-Chlorooctadecane		44.5 %	30.4-16	7	6122108	MS	21-Dec-16	8015B

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Analytical Results For:

GEOLEX, INC. 500 MARQUETTE AVE. NW ALBUQUERQUE NM, 87102	#1350	Project: DCP ZIA AGI D #2 (FORMATION W Project Number: 16-012 Project Manager: ALBERTO GUTIERREZ Fax To:						A Reported: 22-Dec-16 10:23			
NO. 2 415 BBLS H602848-02 (Wastewater)											
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l L <mark>abora</mark>	tories						
Petroleum Hydrocarbons by G	C FID										
DRO >C10-C28	12.1		1.00	mg/L	0.1	6122108	MS	21-Dec-16	8015B		
EXT DRO >C28-C35	3.65		1.00	mg/L	0.1	6122108	MS	21-Dec-16	8015B		
Surrogate: 1-Chlorooctane			42.2 %	34.8	-131	6122108	MS	21-Dec-16	8015B		
Surrogate: 1-Chlorooctadecane			41.6 %	30.4	-167	6122108	MS	21-Dec-16	8015B		

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Analytical Results For:

GEOLEX, INC. 500 MARQUETTE AVE. NW #1350 ALBUQUERQUE NM, 87102			Project: DCP ZIA AGI D #2 (FORMATION W Project Number: 16-012 Project Manager: ALBERTO GUTIERREZ Fax To:					Reported: 22-Dec-16 10:23		
			NO. 3	435 BB	SLS					
			H602848-	03 (Waste	ewater)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Petroleum Hydrocarbons by C	GC FID									
DRO >C10-C28	6.53		1.00	mg/L	0.1	6122108	MS	21-Dec-16	8015B	
EXT DRO >C28-C35	2.30		1.00	mg/L	0.1	6122108	MS	21-Dec-16	8015B	
Surrogate: 1-Chlorooctane			70.4 %	34.8	-131	6122108	MS	21-Dec-16	8015B	
Surrogate: 1-Chlorooctadecane	80.3 %	30.4	-167	6122108	MS	21-Dec-16	8015B			

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Analytical Results For:

GEOLEX, INC. 500 MARQUETTE AVE. NW #1350 ALBUQUERQUE NM, 87102			Project: DCP ZIA AGI D #2 (FORMATION W Project Number: 16-012 Project Manager: ALBERTO GUTIERREZ Fax To:				Reported: 22-Dec-16 10:23			
			NO. 4	445 BB	LS					
			H602848-	04 (Waste	ewater)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Petroleum Hydrocarbons by C	GC FID									
DRO >C10-C28	1.48		1.00	mg/L	0. ľ	6122108	MS	21-Dec-16	8015B	
EXT DRO >C28-C35	<1.00		1.00	mg/L	0.1	6122108	MS	21-Dec-16	8015B	
Surrogate: 1-Chlorooctane			71.2 %	34.8	-131	6122108	MS	21-Dec-16	8015B	
Surrogate: 1-Chlorooctadecane			84.7 %	30.4	-167	6122108	MS	21-Dec-16	8015B	

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			NO. 5 H602848-	455 BB						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Petroleum Hydrocarbons by C	GC FID									
DRO >C10-C28	2.10		1.00	mg/L	0.1	6122108	MS	21-Dec-16	8015B	
EXT DRO >C28-C35	<1.00		1.00	mg/L	0.1	6122108	MS	21-Dec-16	8015B	
Surrogate: 1-Chlorooctane			72.8 %	34.8	8-131	6122108	MS	21-Dec-16	8015B	
Surrogate: 1-Chlorooctadecane			89.7 %	30.4	-167	6122108	MS	21-Dec-16	8015B	

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Analytical Results For:

GEOLEX, INC. 500 MARQUETTE AVE. NW #1350 ALBUQUERQUE NM, 87102			Project: DCP ZIA AGI D #2 (FORMATION W Project Number: 16-012 Project Manager: ALBERTO GUTIERREZ Fax To:					Reported: 22-Dec-16 10:23		
			NO. 6 H602848-	470 BE						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Petroleum Hydrocarbons by C	GC FID									
DRO >C10-C28	2.94		1.00	mg/L	0.1	6122108	MS	21-Dec-16	8015B	
EXT DRO >C28-C35	1.09		1.00	mg/L	0.1	6122108	MS	21-Dec-16	8015B	
Surrogate: 1-Chlorooctane			78.9 %	34.8	8-131	6122108	MS	21-Dec-16	8015B	
Surrogate: 1-Chlorooctadecane	87.4 % 30.4-167 612.				6122108	MS	21-Dec-16	8015B		

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Analytical Results For:

GEOLEX, INC. 500 MARQUETTE AVE. NW ALBUQUERQUE NM, 87102	#1350		Project: DCP ZIA AGI D #2 (FORMATION W Project Number: 16-012 Project Manager: ALBERTO GUTIERREZ Fax To:				Reported: 22-Dec-16 10:23			
			NO. 7 H602848-	480 BB						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
	×.		Cardina	l Labora	tories					
Petroleum Hydrocarbons by C	GC FID									
DRO >C10-C28	3.59		1.00	mg/L	0.1	6122108	MS	21-Dec-16	8015B	
EXT DRO >C28-C35	1.06		1.00	mg/L	0.1	6122108	MS	21-Dec-16	8015B	
Surrogate: 1-Chlorooctane			60.9 %	34.8	-131	6122108	MS	21-Dec-16	8015B	
Surrogate: 1-Chlorooctadecane			76.5 %	30.4	-167	6122108	MS	21-Dec-16	8015B	

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Analytical Results For:

GEOLEX, INC. 500 MARQUETTE AVE. NW #1350 ALBUQUERQUE NM, 87102			Project: DCP ZIA AGI D #2 (FORMATION W Project Number: 16-012 Project Manager: ALBERTO GUTIERREZ Fax To:					Reported: 22-Dec-16 10:23		
			NO. 8 H602848-	490 BB						
			11002040	00 (11430	mater)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					_
Petroleum Hydrocarbons by (GC FID									
DRO >C10-C28	3.08		1.00	mg/L	0.1	6122108	MS	21-Dec-16	8015B	
EXT DRO >C28-C35	<1.00		1.00	mg/L	0.1	6122108	MS	21-Dec-16	8015B	
Surrogate: 1-Chlorooctane			59.9 %	34.8	-131	6122108	MS	21-Dec-16	8015B	
Surrogate: 1-Chlorooctadecane			67.9 %	30.4	-167	6122108	MS	21-Dec-16	8015B	

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21-Dec-16

8015B

Analytical Results For:

GEOLEX, INC. 500 MARQUETTE AVE. NW #1350 ALBUQUERQUE NM, 87102			Project Num Project Mana	Project: DCP ZIA AGI D #2 (FORMATION W Project Number: 16-012 Project Manager: ALBERTO GUTIERREZ Fax To:					Reported: 22-Dec-16 10:23		
				500 BE							
			H602848-0	19 (wast	ewater)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	Labora	tories						
Petroleum Hydrocarbons by	GC FID										
DRO >C10-C28	1.43		1.00	mg/L	0.1	6122108	MS	21-Dec-16	8015B		
EXT DRO >C28-C35	<1.00		1.00	mg/L	0.1	6122108	MS	21-Dec-16	8015B		
Surrogate: 1-Chlorooctane			65.5 %	34.8	8-131	6122108	MS	21-Dec-16	8015B		

30.4-167

6122108

MS

81.0 %

Surrogate: 1-Chlorooctadecane

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Analytical Results For:

GEOLEX, INC. 500 MARQUETTE AVE. NW ALBUQUERQUE NM, 87102			Project Num Project Mana	ber: 16-	MATION W	2	Reported: 22-Dec-16 10:23			
			NO. 10 H602848-) 515 B 10 (Wast			9		a.	
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories				· · ·	
Petroleum Hydrocarbons by (
DRO >C10-C28	3.01		1.00	mg/L	0.1	6122108	MS	21-Dec-16	8015B	
EXT DRO >C28-C35	<1.00		1.00	mg/L	0.1	6122108	MS	21-Dec-16	8015B	
Surrogate: 1-Chlorooctane			70.2 %	34.8	8-131	6122108	MS	21-Dec-16	8015B	
Surrogate: 1-Chlorooctadecane	rrogate: 1-Chlorooctadecane				9% 30.4-167		MS	21-Dec-16	8015B	

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Analytical Results For:

GEOLEX, INC. 500 MARQUETTE AVE. NW #1350 ALBUQUERQUE NM, 87102	Project: DCP ZIA AGI D #2 (FORMATION W Project Number: 16-012 Project Manager: ALBERTO GUTIERREZ	Reported: 22-Dec-16 10:23
ALBOQUERQUE NIN, 8/102	Fax To:	

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
Batch 6122108 - General Prep - Organics										
Blank (6122108-BLK1)				Prepared &	Analyzed:	21-Dec-16				
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							
Surrogate: 1-Chlorooctane	2.68		mg/L	5.00		53.7	34.8-131			
Surrogate: 1-Chlorooctadecane	5.22		mg/L	5.00		104	30.4-167			
LCS (6122108-BS1)		-		Prepared &	Analyzed:	21-Dec-16				
GRO C6-C10	49.8	1.00	mg/L	50.0		99.6	77.1-111			
DRO >C10-C28	53.9	1.00	mg/L	50.0		108	84.8-116			
EXT DRO >C28-C35	ND	1.00	mg/L	0.00			0-0			
Surrogate: 1-Chlorooctane	4.63		mg/L	5.00		92.7	34.8-131		_	
Surrogate: 1-Chlorooctadecane	5.99		mg/L	5.00		120	30.4-167			
LCS Dup (6122108-BSD1)				Prepared &	Analyzed:	21-Dec-16				
GRO C6-C10	50.1	1.00	mg/L	50.0		100	77.1-111	0.541	8.98	
DRO >C10-C28	54.1	1.00	mg/L	50.0		108	84.8-116	0.383	9.66	
EXT DRO >C28-C35	ND	1.00	mg/L	0.00			0-0		20	
Surrogate: 1-Chlorooctane	4.67		mg/L	5.00		93.4	34.8-131			
Surrogate: 1-Chlorooctadecane	5.98		mg/L	5.00		120	30.4-167			

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Celey D. Keene, Lab Director/Quality Manager

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Laboratories

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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 SM4500CI-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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Celez D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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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. #: TH. Company: Geolex, Inc. 500 Marguette Ave. NW #1350 Address: 0 State: NM Zip: 87102 City: Albuquerque Attn: Liz Hill à ā Address: 500 Marquette 1350 Phone #: (505) 842-8000 Fax #: aag@geolex.com HICHS Project #: 16-012 Project Owner: Geolex City: Albuquerque 0 BR Project Name: DCP Zia AGI D #2 (formation water) State: NM Zip: 87102 Project Location: Sec 19(L) T19S R32E Lea Co., NM Phone #: (505) 842-8000 Concluctivity 1 Fax #: liz@geolex.com Sampler Name: Dale Littlejohn 8015 PRESERV MATRIX SAMPLING FOR LAB USE ONLY 3 C (G)RAB OR (C)OMP 5 GROUNDWATER 9 CONTAINERS WASTEWATER S I 44 OTHER : ACID/BASE: ICE / COOL I Sample I.D. 0 Lab I.D. OIL 4 OTHER 4 1-+ SOIL H602849 DATE TIME 12/21/16 825 4 ~ VV V 402 bbis V V No. 1 V 6 VV 4 V 2 V 845 V V V V No. 2 415 bbls 6 3 VIV 902 1 4 ~ V V ~ V 435 bhls No.3 6 4 4 1 VV 935 V V V V V No.4 445 bbis 6 V 5 r V 950 V V 455 4 V V V bhis 100.5 66 V VV V 4 1010 V 1 470 bbls 1 V NO.6 VV V bbis 4 V 1025 V V V 1 480 NO. VV 1 ~ V V 6 ~ 1044 V 8 490 bbls 100.8 VV 6 1100 ~ V V V V 1 500 bbis 4 No. 9 515 V 1111 V 1 D Nc. 10 bbls

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