

February 11, 2016

ED LOCKE

CIMAREX ENERGY CO.-MIDLAND

600 N. MARIENFELD ST, SUITE 600

MIDLAND, TX 79701

RE: TRISTE DRAW 36 STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/10/16 11:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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:

CIMAREX ENERGY CO.-MIDLAND ED LOCKE

600 N. MARIENFELD ST, SUITE 600

MIDLAND TX, 79701 Fax To: UNK-NOWN

Received: 02/10/2016 Sampling Date: 02/09/2016

Reported: 02/11/2016 Sampling Type: Soil

Project Name: TRISTE DRAW 36 STATE BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: 3' DIG NORTH WALL (H600298-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2016	ND	2.00	100	2.00	6.96	
Toluene*	<0.050	0.050	02/11/2016	ND	1.97	98.5	2.00	7.49	
Ethylbenzene*	<0.050	0.050	02/11/2016	ND	1.79	89.6	2.00	8.13	
Total Xylenes*	<0.150	0.150	02/11/2016	ND	5.49	91.6	6.00	8.12	
Total BTEX	<0.300	0.300	02/11/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	02/11/2016	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/10/2016	ND	226	113	200	1.04	
DRO >C10-C28	<10.0	10.0	02/10/2016	ND	215	108	200	0.440	
Surrogate: 1-Chlorooctane	88.8	% 35-147	,						
Surrogate: 1-Chlorooctadecane	100 9	% 28-171							

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

CIMAREX ENERGY CO.-MIDLAND **ED LOCKE**

600 N. MARIENFELD ST, SUITE 600

MIDLAND TX, 79701 Fax To: **UNK-NOWN**

Received: 02/10/2016 Sampling Date: 02/09/2016

Reported: 02/11/2016 Sampling Type: Soil

Project Name: TRISTE DRAW 36 STATE BATTERY Sampling Condition: Cool & Intact Sample Received By: Celey D. Keene Project Number: NONE GIVEN

Project Location: **NOT GIVEN**

Sample ID: 3' DIG SOUTH WALL (H600298-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2016	ND	2.00	100	2.00	6.96	
Toluene*	<0.050	0.050	02/11/2016	ND	1.97	98.5	2.00	7.49	
Ethylbenzene*	<0.050	0.050	02/11/2016	ND	1.79	89.6	2.00	8.13	
Total Xylenes*	<0.150	0.150	02/11/2016	ND	5.49	91.6	6.00	8.12	
Total BTEX	<0.300	0.300	02/11/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/11/2016	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/10/2016	ND	226	113	200	1.04	
DRO >C10-C28	<10.0	10.0	02/10/2016	ND	215	108	200	0.440	
Surrogate: 1-Chlorooctane	85.6	% 35-147	,						
Surrogate: 1-Chlorooctadecane	92.9	% 28-171							

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Celey D. Keene



Analytical Results For:

CIMAREX ENERGY CO.-MIDLAND ED LOCKE

600 N. MARIENFELD ST, SUITE 600

MIDLAND TX, 79701 Fax To: UNK-NOWN

Received: 02/10/2016 Sampling Date: 02/09/2016

Reported: 02/11/2016 Sampling Type: Soil

Project Name: TRISTE DRAW 36 STATE BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NOT GIVEN

Sample ID: 3' DIG EAST WALL (H600298-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2016	ND	2.00	100	2.00	6.96	
Toluene*	<0.050	0.050	02/11/2016	ND	1.97	98.5	2.00	7.49	
Ethylbenzene*	<0.050	0.050	02/11/2016	ND	1.79	89.6	2.00	8.13	
Total Xylenes*	<0.150	0.150	02/11/2016	ND	5.49	91.6	6.00	8.12	
Total BTEX	<0.300	0.300	02/11/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/11/2016	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/11/2016	ND	226	113	200	1.04	
DRO >C10-C28	<10.0	10.0	02/11/2016	ND	215	108	200	0.440	
Surrogate: 1-Chlorooctane	98.4 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	98.0 9	% 28-171							

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Celey D. Keine



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 SM4500Cl-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. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

	(5/5) 393-2326 FAA (9/9) 393-24/0			CALL STREET, ST. LEWIS CO., LANSING, ST. LAN		
Company Name: () MON + X	(}way+x	BILL TO	0		ANALYSIS REQUEST	
Project Manager: E	Ed Locke	P.O. #:				
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