



April 11, 2016

ZACK THOMAS

MEWBOURNE OIL COMPANY

P. O. BOX 5270

HOBBS, NM 88240

RE: LAYLA 27 SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 04/06/16 9:30.

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/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	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.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 MEWBOURNE OIL COMPANY
 ZACK THOMAS
 P. O. BOX 5270
 HOBBS NM, 88240
 Fax To: (575) 937-6252

Received:	04/06/2016	Sampling Date:	04/05/2016
Reported:	04/11/2016	Sampling Type:	Soil
Project Name:	LAYLA 27 SWD #1	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 2' BGS (H600726-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	04/07/2016	ND	432	108	400	3.77	

Sample ID: SP 1 3' BGS (H600726-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	04/07/2016	ND	432	108	400	3.77	

Sample ID: SP 2 2' BGS (H600726-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	04/07/2016	ND	432	108	400	3.77	

Sample ID: SP 2 3' BGS (H600726-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	04/07/2016	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 MEWBOURNE OIL COMPANY
 ZACK THOMAS
 P. O. BOX 5270
 HOBBS NM, 88240
 Fax To: (575) 937-6252

Received:	04/06/2016	Sampling Date:	04/05/2016
Reported:	04/11/2016	Sampling Type:	Soil
Project Name:	LAYLA 27 SWD #1	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 4' BGS (H600726-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1720	16.0	04/07/2016	ND	432	108	400	3.77	

Sample ID: SP 3 2' BGS (H600726-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	04/07/2016	ND	432	108	400	3.77	

Sample ID: SP 3 3' BGS (H600726-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	04/07/2016	ND	432	108	400	3.77	

Sample ID: SP 3 4' BGS (H600726-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	04/07/2016	ND	432	108	400	3.77	

Sample ID: BACKGROUND SURFACE (H600726-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/07/2016	ND	416	104	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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



Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: McEbburne
Project Manager: Zach Thomas

P.O. #: _____
Company: _____
Attn: _____

ANALYSIS REQUEST

Address: _____
City: _____ State: _____ Zip: _____

Company: _____
Address: _____
City: _____ State: _____ Zip: _____

Phone #: _____ Fax #: _____
Project #: _____ Project Owner: _____

Address: _____
City: _____ State: _____ Zip: _____

Project Name: Layla 27 SCD #1
Project Location: _____

Phone #: _____
Fax #: _____

Sampler Name: Zach Thomas

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	INITIALS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
<u>H0007120</u>	<u>SP-1</u>	<u>1</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>9/5/16</u>	<u>2:30</u>	<u>ce</u>				
	<u>SP-1</u>	<u>2'</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>							
	<u>SP-2</u>	<u>3'</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>							
	<u>SP-2</u>	<u>2'</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>							
	<u>SP-2</u>	<u>3'</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>							
	<u>SP-2</u>	<u>4'</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>							
	<u>SP-3</u>	<u>2'</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>							
	<u>SP-3</u>	<u>3'</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>							
	<u>SP-3</u>	<u>4'</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>							
	<u>SP-3</u>	<u>1'</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>							
	<u>SP-5</u>	<u>2'</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>							

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Relinquished By: R. Thomas
Date: 9/16/16
Time: 4:30
Received By: Jodi Henderson
Date: _____
Time: _____

Phone Result: Yes No Add'l Phone #: _____
Fax Result: Yes No Add'l Fax #: _____
REMARKS: _____

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 21.62

CHECKED BY: [Signature]
Cool Intact
Yes No

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 #1574

