



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 06, 2015

ZACK THOMAS

MEWBOURNE OIL COMPANY

P. O. BOX 5270

HOBBS, NM 88240

RE: MIRAGE 30 PM STATE COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 03/31/15 16:13.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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". The signature is written in a cursive, flowing style.

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:	03/31/2015	Sampling Date:	03/31/2015
Reported:	04/06/2015	Sampling Type:	Soil
Project Name:	MIRAGE 30 PM STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: BS. 1 (H500855-01)

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2015	ND	1.83	91.5	2.00	13.1		
Toluene*	<0.050	0.050	04/02/2015	ND	1.67	83.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	04/02/2015	ND	1.65	82.4	2.00	13.7		
Total Xylenes*	<0.150	0.150	04/02/2015	ND	5.04	84.0	6.00	14.1		
Total BTEX	<0.300	0.300	04/02/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/01/2015	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/01/2015	ND	195	97.6	200	1.27	
DRO >C10-C28	90.0	10.0	04/01/2015	ND	198	99.2	200	4.70	

Surrogate: 1-Chlorooctane 108 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Received:	03/31/2015	Sampling Date:	03/31/2015
Reported:	04/06/2015	Sampling Type:	Soil
Project Name:	MIRAGE 30 PM STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: BS. 2 (H500855-02)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/02/2015	ND	1.83	91.5	2.00	13.1	
Toluene*	<0.050	0.050	04/02/2015	ND	1.67	83.4	2.00	13.0	
Ethylbenzene*	<0.050	0.050	04/02/2015	ND	1.65	82.4	2.00	13.7	
Total Xylenes*	<0.150	0.150	04/02/2015	ND	5.04	84.0	6.00	14.1	
Total BTX	<0.300	0.300	04/02/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/01/2015	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/01/2015	ND	195	97.6	200	1.27	
DRO >C10-C28	118	10.0	04/01/2015	ND	198	99.2	200	4.70	

Surrogate: 1-Chlorooctane 108 % 47.2-157

Surrogate: 1-Chlorooctadecane 113 % 52.1-176

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Received:	03/31/2015	Sampling Date:	03/31/2015
Reported:	04/06/2015	Sampling Type:	Soil
Project Name:	MIRAGE 30 PM STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: BS. 3 (H500855-03)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2015	ND	1.83	91.5	2.00	13.1		
Toluene*	<0.050	0.050	04/02/2015	ND	1.67	83.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	04/02/2015	ND	1.65	82.4	2.00	13.7		
Total Xylenes*	<0.150	0.150	04/02/2015	ND	5.04	84.0	6.00	14.1		
Total BTX	<0.300	0.300	04/02/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/01/2015	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/01/2015	ND	195	97.6	200	1.27	
DRO >C10-C28	640	10.0	04/01/2015	ND	198	99.2	200	4.70	

Surrogate: 1-Chlorooctane 99.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 52.1-176

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Received:	03/31/2015	Sampling Date:	03/31/2015
Reported:	04/06/2015	Sampling Type:	Soil
Project Name:	MIRAGE 30 PM STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: BS. 4 (H500855-04)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2015	ND	1.83	91.5	2.00	13.1		
Toluene*	<0.050	0.050	04/02/2015	ND	1.67	83.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	04/02/2015	ND	1.65	82.4	2.00	13.7		
Total Xylenes*	<0.150	0.150	04/02/2015	ND	5.04	84.0	6.00	14.1		
Total BTX	<0.300	0.300	04/02/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/01/2015	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/01/2015	ND	195	97.6	200	1.27		
DRO >C10-C28	25.6	10.0	04/01/2015	ND	198	99.2	200	4.70		

Surrogate: 1-Chlorooctane 106 % 47.2-157

Surrogate: 1-Chlorooctadecane 114 % 52.1-176

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

Received:	03/31/2015	Sampling Date:	03/31/2015
Reported:	04/06/2015	Sampling Type:	Soil
Project Name:	MIRAGE 30 PM STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: BS. 5 (H500855-05)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2015	ND	1.92	96.2	2.00	5.42		
Toluene*	<0.050	0.050	04/03/2015	ND	1.74	87.1	2.00	5.96		
Ethylbenzene*	<0.050	0.050	04/03/2015	ND	1.72	86.2	2.00	5.68		
Total Xylenes*	<0.150	0.150	04/03/2015	ND	5.25	87.5	6.00	5.85		
Total BTEX	<0.300	0.300	04/03/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

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	04/01/2015	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/02/2015	ND	184	91.9	200	5.80	
DRO >C10-C28	431	10.0	04/02/2015	ND	196	98.0	200	1.14	

Surrogate: 1-Chlorooctane 107 % 47.2-157

Surrogate: 1-Chlorooctadecane 127 % 52.1-176

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

Received:	03/31/2015	Sampling Date:	03/31/2015
Reported:	04/06/2015	Sampling Type:	Soil
Project Name:	MIRAGE 30 PM STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: BS. 6 (H500855-06)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2015	ND	1.92	96.2	2.00	5.42		
Toluene*	<0.050	0.050	04/03/2015	ND	1.74	87.1	2.00	5.96		
Ethylbenzene*	<0.050	0.050	04/03/2015	ND	1.72	86.2	2.00	5.68		
Total Xylenes*	<0.150	0.150	04/03/2015	ND	5.25	87.5	6.00	5.85		
Total BTEx	<0.300	0.300	04/03/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/01/2015	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/02/2015	ND	184	91.9	200	5.80	
DRO >C10-C28	72.4	10.0	04/02/2015	ND	196	98.0	200	1.14	

Surrogate: 1-Chlorooctane 114 % 47.2-157

Surrogate: 1-Chlorooctadecane 119 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	03/31/2015	Sampling Date:	03/31/2015
Reported:	04/06/2015	Sampling Type:	Soil
Project Name:	MIRAGE 30 PM STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: BS. 7 (H500855-07)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2015	ND	1.92	96.2	2.00	5.42		
Toluene*	<0.050	0.050	04/03/2015	ND	1.74	87.1	2.00	5.96		
Ethylbenzene*	<0.050	0.050	04/03/2015	ND	1.72	86.2	2.00	5.68		
Total Xylenes*	<0.150	0.150	04/03/2015	ND	5.25	87.5	6.00	5.85		
Total BTX	<0.300	0.300	04/03/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

Chloride, SM4500CI-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	04/01/2015	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/02/2015	ND	184	91.9	200	5.80		
DRO >C10-C28	<10.0	10.0	04/02/2015	ND	196	98.0	200	1.14		

Surrogate: 1-Chlorooctane 113 % 47.2-157

Surrogate: 1-Chlorooctadecane 115 % 52.1-176

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

Received:	03/31/2015	Sampling Date:	03/31/2015
Reported:	04/06/2015	Sampling Type:	Soil
Project Name:	MIRAGE 30 PM STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: BS. 8 (H500855-08)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/03/2015	ND	1.92	96.2	2.00	5.42		
Toluene*	<0.050	0.050	04/03/2015	ND	1.74	87.1	2.00	5.96		
Ethylbenzene*	<0.050	0.050	04/03/2015	ND	1.72	86.2	2.00	5.68		
Total Xylenes*	<0.150	0.150	04/03/2015	ND	5.25	87.5	6.00	5.85		
Total BTX	<0.300	0.300	04/03/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

Chloride, SM4500CI-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	04/01/2015	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/02/2015	ND	184	91.9	200	5.80		
DRO >C10-C28	229	10.0	04/02/2015	ND	196	98.0	200	1.14		

Surrogate: 1-Chlorooctane 107 % 47.2-157

Surrogate: 1-Chlorooctadecane 116 % 52.1-176

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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 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. 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: <u>McBourne Oil</u>		P.O. #:		BILL TO												ANALYSIS REQUEST																									
Project Manager: <u>Mike Burton</u>		Company: <u>McBourne</u>																																							
Address:		City: <u>Alamogordo</u>		State: <u>CA</u>		Zip: <u>92003</u>																																			
Phone #:		Fax #:		City: <u>Alamogordo</u>		State: <u>CA</u>		Zip: <u>92003</u>																																	
Project #:		Project Owner:		City: <u>Alamogordo</u>		State: <u>CA</u>		Zip: <u>92003</u>																																	
Project Name:		Project Location: <u>W. Page 30</u>		City: <u>Alamogordo</u>		State: <u>CA</u>		Zip: <u>92003</u>																																	
Sample Name: <u>Person Long</u>		Phone #:		Fax #:																																					
FOR LAB USE ONLY																																									
Lab I.D. <u>H500655</u>		Sample I.D.		(G)RAB OR (C)OMP		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER		ACID/BASE		ICE / COOL		OTHER		DATE		TIME													
1		BS,1		3		1		X		X		X		X		X		X		X		X		X		3-31-15		9:15		CL											
2		BS,2		3		1		X		X		X		X		X		X		X		X		X		3-31-15		9:20		TFA											
3		BS,3		3		1		X		X		X		X		X		X		X		X		X		3-31-15		9:23		B-tex											
4		BS,4		3		1		X		X		X		X		X		X		X		X		X		3-31-15		9:30													
5		BS,5		3		1		X		X		X		X		X		X		X		X		X		3-31-15		9:34													
6		BS,6		3		1		X		X		X		X		X		X		X		X		X		3-31-15		9:38													
7		BS,7		3		1		X		X		X		X		X		X		X		X		X		3-31-15		9:42													
8		BS,8		3		1		X		X		X		X		X		X		X		X		X		3-31-15		9:50													
Relinquished By: <u>Michael</u>		Date: <u>3/31/15</u>		Time: <u>4:13</u>		Received By: <u>Mike Burton</u>		Sample Condition: <u>Intact</u>		Checked By: <u>Mike Burton</u>																															
Delivered By: (Circle One)		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																					
Sampler - UPS - Bus - Other:		3.80																																							

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