



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

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April 02, 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 03/27/15 15:16.

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](http://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:	03/27/2015	Sampling Date:	03/27/2015
Reported:	04/02/2015	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 (H500833-01)**

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	04/01/2015	ND	1.83	91.5	2.00	13.1		
<b>Toluene*</b>	<b>0.052</b>	0.050	04/01/2015	ND	1.67	83.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	04/01/2015	ND	1.65	82.4	2.00	13.7		
Total Xylenes*	<0.150	0.150	04/01/2015	ND	5.04	84.0	6.00	14.1		
Total BTX	<0.300	0.300	04/01/2015	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	
<b>Chloride</b>	<b>160</b>	16.0	03/30/2015	ND	400	100	400	3.92		

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	03/30/2015	ND	201	100	200	2.68		
<b>DRO &gt;C10-C28</b>	<b>1130</b>	10.0	03/30/2015	ND	215	108	200	2.04		

Surrogate: 1-Chlorooctane 108 % 47.2-157

Surrogate: 1-Chlorooctadecane 118 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Received:	03/27/2015	Sampling Date:	03/27/2015
Reported:	04/02/2015	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 (H500833-02)**

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	04/01/2015	ND	1.83	91.5	2.00	13.1	
Toluene*	<0.050	0.050	04/01/2015	ND	1.67	83.4	2.00	13.0	
Ethylbenzene*	<0.050	0.050	04/01/2015	ND	1.65	82.4	2.00	13.7	
Total Xylenes*	<0.150	0.150	04/01/2015	ND	5.04	84.0	6.00	14.1	
Total BTX	<0.300	0.300	04/01/2015	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	03/30/2015	ND	400	100	400	3.92	

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	03/30/2015	ND	201	100	200	2.68	
DRO >C10-C28	368	10.0	03/30/2015	ND	215	108	200	2.04	

Surrogate: 1-Chlorooctane 108 % 47.2-157

Surrogate: 1-Chlorooctadecane 106 % 52.1-176

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Received:	03/27/2015	Sampling Date:	03/27/2015
Reported:	04/02/2015	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 (H500833-03)**

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	04/01/2015	ND	1.83	91.5	2.00	13.1	
Toluene*	<0.050	0.050	04/01/2015	ND	1.67	83.4	2.00	13.0	
Ethylbenzene*	<0.050	0.050	04/01/2015	ND	1.65	82.4	2.00	13.7	
Total Xylenes*	<0.150	0.150	04/01/2015	ND	5.04	84.0	6.00	14.1	
Total BTX	<0.300	0.300	04/01/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	03/30/2015	ND	400	100	400	3.92	

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	03/30/2015	ND	201	100	200	2.68	
DRO >C10-C28	964	10.0	03/30/2015	ND	215	108	200	2.04	

Surrogate: 1-Chlorooctane 108 % 47.2-157

Surrogate: 1-Chlorooctadecane 119 % 52.1-176

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Received:	03/27/2015	Sampling Date:	03/27/2015
Reported:	04/02/2015	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 (H500833-04)**

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	04/01/2015	ND	1.83	91.5	2.00	13.1	
Toluene*	<0.050	0.050	04/01/2015	ND	1.67	83.4	2.00	13.0	
Ethylbenzene*	<0.050	0.050	04/01/2015	ND	1.65	82.4	2.00	13.7	
Total Xylenes*	<0.150	0.150	04/01/2015	ND	5.04	84.0	6.00	14.1	
Total BTX	<0.300	0.300	04/01/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	03/30/2015	ND	400	100	400	3.92	

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	03/30/2015	ND	201	100	200	2.68	
DRO >C10-C28	325	10.0	03/30/2015	ND	215	108	200	2.04	

Surrogate: 1-Chlorooctane 103 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.3 % 52.1-176

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Received:	03/27/2015	Sampling Date:	03/27/2015
Reported:	04/02/2015	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 (H500833-05)**

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	04/01/2015	ND	1.83	91.5	2.00	13.1	
Toluene*	<0.050	0.050	04/01/2015	ND	1.67	83.4	2.00	13.0	
Ethylbenzene*	<0.050	0.050	04/01/2015	ND	1.65	82.4	2.00	13.7	
Total Xylenes*	<0.150	0.150	04/01/2015	ND	5.04	84.0	6.00	14.1	
Total BTX	<0.300	0.300	04/01/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	03/30/2015	ND	400	100	400	3.92	

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	03/31/2015	ND	195	97.6	200	1.27	
DRO >C10-C28	547	10.0	03/31/2015	ND	198	99.2	200	4.70	

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 118 % 52.1-176

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

Received:	03/27/2015	Sampling Date:	03/27/2015
Reported:	04/02/2015	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 (H500833-06)**

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.100	0.100	04/01/2015	ND	1.83	91.5	2.00	13.1		
<b>Toluene*</b>	<b>0.144</b>	0.100	04/01/2015	ND	1.67	83.4	2.00	13.0		
<b>Ethylbenzene*</b>	<b>0.331</b>	0.100	04/01/2015	ND	1.65	82.4	2.00	13.7		
<b>Total Xylenes*</b>	<b>1.48</b>	0.300	04/01/2015	ND	5.04	84.0	6.00	14.1		
<b>Total BTX</b>	<b>1.96</b>	0.600	04/01/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>48.0</b>	16.0	03/30/2015	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>99.9</b>	10.0	03/31/2015	ND	195	97.6	200	1.27		
<b>DRO &gt;C10-C28</b>	<b>3120</b>	10.0	03/31/2015	ND	198	99.2	200	4.70		

Surrogate: 1-Chlorooctane 127 % 47.2-157

Surrogate: 1-Chlorooctadecane 142 % 52.1-176

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	03/27/2015	Sampling Date:	03/27/2015
Reported:	04/02/2015	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 (H500833-07)**

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	04/01/2015	ND	1.83	91.5	2.00	13.1	
Toluene*	<0.050	0.050	04/01/2015	ND	1.67	83.4	2.00	13.0	
Ethylbenzene*	<0.050	0.050	04/01/2015	ND	1.65	82.4	2.00	13.7	
Total Xylenes*	<0.150	0.150	04/01/2015	ND	5.04	84.0	6.00	14.1	
Total BTX	<0.300	0.300	04/01/2015	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	80.0	16.0	03/30/2015	ND	400	100	400	3.92	

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	03/31/2015	ND	195	97.6	200	1.27	
DRO >C10-C28	398	10.0	03/31/2015	ND	198	99.2	200	4.70	

Surrogate: 1-Chlorooctane 92.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 106 % 52.1-176

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Received:	03/27/2015	Sampling Date:	03/27/2015
Reported:	04/02/2015	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 (H500833-08)**

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	04/01/2015	ND	1.83	91.5	2.00	13.1		
Toluene*	<0.050	0.050	04/01/2015	ND	1.67	83.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	04/01/2015	ND	1.65	82.4	2.00	13.7		
Total Xylenes*	<0.150	0.150	04/01/2015	ND	5.04	84.0	6.00	14.1		
Total BTEX	<0.300	0.300	04/01/2015	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	80.0	16.0	03/30/2015	ND	400	100	400	3.92	

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	03/31/2015	ND	195	97.6	200	1.27	
DRO >C10-C28	1090	10.0	03/31/2015	ND	198	99.2	200	4.70	

Surrogate: 1-Chlorooctane 103 % 47.2-157

Surrogate: 1-Chlorooctadecane 115 % 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



ANALYSIS REQUEST

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