



Mirage 30 PM St. com #1H battery

T19S, R 29E, Sec 30

API# 30-015-40753

Closure Report

Release Date: March 9th, 2015

Unit Letter P, Section 30, Township 19 South, Range 29 East

May 7, 2015

Prepared by:

Environmental Department
Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
Phone: (575)964-8394
Fax: (575)393-8396

Table of Contents

- 1 Introduction
- 2 Site Activities
- 3 Conclusion

APPENDICES

Appendix I – Initial Form C-141

Appendix II – Site Photos

Appendix III – Site Map

Appendix IV – Laboratory Analyses and Field Sampling Data

Appendix V – Seed Report

Appendix VI – Final C-141

Mewbourne Mirage 30 PM St. Com 1H

1 INTRODUCTION

Mewbourne Oil Co., Inc. retained Diversified Environmental (DFSI) to address environmental issues for the site detailed herein.

The site is located east of Carlsbad NM, in Eddy County. The leak site resulted from a hydrocarbon and produced water leak. The source of the leak was due to a compressor separator venting fluid onto the ground. A C-141 was submitted to the NMOCD on March 9, 2015.

2 SITE ACTIVITIES

On March 10, 2015 DFSI personnel obtained surface and below grade surface (BGS) samples of the leak area. Field samples were taken on eight sample points, each sample was tested for chlorides levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). All clean field samples found under the BLM/NMOCD standards, were taken to Cardinal Lab of Hobbs to obtain confirmation samples. Results are attached (Appendix IV).

DFSI personnel returned to the location on March 16, 2015 to begin excavation. At sample points 1,2,3 and 7, DFSI removed contaminated soil to 4' bgs. The area of SP 6 and 8 was removed to 3' bgs, and the areas of SP 4 and 5 were removed to 2' bgs.

All contaminated soil was hauled to an approved facility. Before backfill with fresh topsoil, bottom samples were taken to verify clean soil under BLM standards. Results are attached (Appendix IV).

DFSI personnel returned to the site to backfill with fresh topsoil and install new berms around the source of the leak. The area was also reseeded with 25 pounds of BLM-#1 seed. The site was restored to its previous state.

3 CONCLUSION

According to the U.S. Geological Survey and the NM Office of the State Engineer, depth to groundwater in the area averages greater than 100 ft. bgs. Based on the removal of soils

containing elevated chloride and hydrocarbon impact, DFSI Environmental, on behalf of Mewbourne Oil Co., Inc. respectfully requests the closure of this regulatory file.

Appendix I

INITIAL FORM C-141

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Mewbourne Oil Company	Contact: Zack Thomas
Address: PO Box 5270 Hobbs NM 88241	Telephone No. 575-393-5905
Facility Name: Mirage 30 PM St. Com #1H Battery	Facility Type: Oil producing Well

Surface Owner: State	Mineral Owner: State	API No. 30-015-40753
----------------------	----------------------	----------------------

LOCATION OF RELEASE

Unit Letter P	Section 30	Township 19S	Range 29E	Feet from the 300'	North/South Line South	Feet from the 150'	East/West Line East	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	-----------------------	------------------------	----------------

Latitude 32.625402 Longitude -104.10611632

NATURE OF RELEASE

Type of Release: Oil/produced water	Volume of Release: estimated 10 bbls total fluid	Volume Recovered: 5 bbls total fluid
Source of Release: Compressor separator	Date and Hour of Occurrence 3-9-15	Date and Hour of Discovery 3-9-15 9:30 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher & Ian Dolby	
By Whom? Zack Thomas	Date and Hour 3-9-15 1:45 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

Cause of the leak- Gas pressure to dumps on separation equipment was lost sending fluid to compressor separator. Compressor separator in turn vented fluid onto ground. Upon arrival pumper closed the vent line stopping the release. Vent line was then re-routed to water tanks.

Describe Area Affected and Cleanup Action Taken.*

Affected area- Fluid ran onto pad surface on North side of compressor before running off the pad an estimated 200 ft. out into the pasture. 5 bbls of total fluid was recovered from pasture via vacuum truck. Clean up action will include removing contaminated soil to NMOCD regulation standards and replacing with clean backfill then reseeded.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Zack Thomas	Approved by Environmental Specialist:		
Title: Environmental Rep.	Approval Date:	Expiration Date:	
E-mail Address: zthomas@mewbourne.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 3-9-15	Phone: 575-602-2188		

* Attach Additional Sheets If Necessary

Appendix II

SITE PHOTOS

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394

Mewbourne, Mirage 30 PM St. Com 1H Photo Page



Source of spill leading into pasture



Spill area in pasture

Mewbourne, Mirage 30 PM St. Com 1H Photo Page



Spill area with sample point



Spill area with sample points



Excavated spill area



Excavated spill area

Mewbourne, Mirage 30 PM St. Com 1H Photo Page



Excavated spill area



Fully excavated spill area



Backfilled excavated area with fresh caliche



Backfilled excavated area with fresh caliche

Mewbourne, Mirage 30 PM St. Com 1H Photo Page



Rebuilt berm and pad area at leak source



Rebuilt berm and pad area at leak source

Appendix III

SITE MAP

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394

Site Diagram

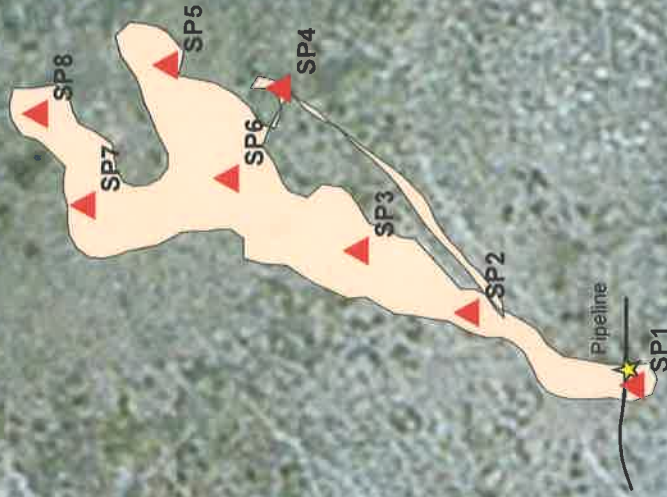
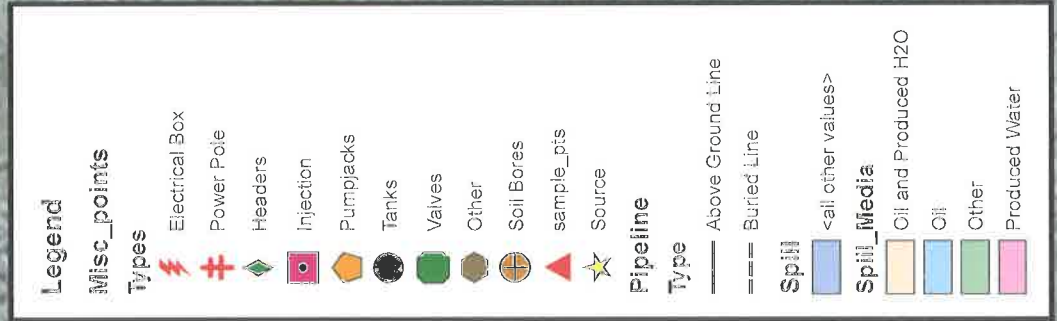
Mewbourne, Mirage 30 PM St. Com #11H Bat.

ULP, Sec. 30 T19S R29E

Eddy County, NM

Drafted By: Lance Crenshaw, 3-10-14

0 0.005 0.01 0.02 Miles



Spill Area:
6,556 sq. ft.

Lance Crenshaw
GIS Technician

Soil Remediation and Ground Water Remediation
Environmental Assessments
Regulatory Compliance



DFS

Services

Environmental

Office: 575-964-8394
Fax: 575-964-8396

Cell: 575-441-2359
Email: lcrenshaw@diversifiedfsi.com

Source: Esri, DigitalGlobe, GeoEye, IGN, Aeri, GeoEye, and the GIS User Community

Appendix IV

LABORATORY ANALYSES

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394

March 17, 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 03/12/15 16:30.

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,



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: 03/12/2015
 Reported: 03/17/2015
 Project Name: MIRAGE 30 PM STATE COM #1H
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/10/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 2 @ 5' (H500681-01)

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	03/16/2015	ND	2.23	112	2.00	7.97	
Toluene*	<0.050	0.050	03/16/2015	ND	2.04	102	2.00	9.48	
Ethylbenzene*	<0.050	0.050	03/16/2015	ND	1.97	98.6	2.00	9.75	
Total Xylenes*	<0.150	0.150	03/16/2015	ND	5.85	97.4	6.00	8.65	
Total BTX	<0.300	0.300	03/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 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	<16.0	16.0	03/16/2015	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	03/14/2015	ND	181	90.5	200	3.49	
DRO >C10-C28	48.1	10.0	03/14/2015	ND	189	94.6	200	3.39	

Surrogate: 1-Chlorooctane 94.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.7 % 52.1-176

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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: 03/12/2015
 Reported: 03/17/2015
 Project Name: MIRAGE 30 PM STATE COM #1H
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/10/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 3 @ 5' (H500681-02)

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	03/16/2015	ND	2.23	112	2.00	7.97	
Toluene*	<0.050	0.050	03/16/2015	ND	2.04	102	2.00	9.48	
Ethylbenzene*	<0.050	0.050	03/16/2015	ND	1.97	98.6	2.00	9.75	
Total Xylenes*	<0.150	0.150	03/16/2015	ND	5.85	97.4	6.00	8.65	
Total BTX	<0.300	0.300	03/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	03/16/2015	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	03/14/2015	ND	181	90.5	200	3.49	
DRO >C10-C28	322	10.0	03/14/2015	ND	189	94.6	200	3.39	

Surrogate: 1-Chlorooctane 102 % 47.2-157

Surrogate: 1-Chlorooctadecane 106 % 52.1-176

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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: 03/12/2015
Reported: 03/17/2015
Project Name: MIRAGE 30 PM STATE COM #1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/10/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP. 4 @ 4' (H500681-03)

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	03/16/2015	ND	2.23	112	2.00	7.97	
Toluene*	<0.050	0.050	03/16/2015	ND	2.04	102	2.00	9.48	
Ethylbenzene*	<0.050	0.050	03/16/2015	ND	1.97	98.6	2.00	9.75	
Total Xylenes*	<0.150	0.150	03/16/2015	ND	5.85	97.4	6.00	8.65	
Total BTEx	<0.300	0.300	03/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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	03/16/2015	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	03/14/2015	ND	181	90.5	200	3.49	
DRO >C10-C28	51.2	10.0	03/14/2015	ND	189	94.6	200	3.39	

Surrogate: 1-Chlorooctane 81.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.8 % 52.1-176

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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: 03/12/2015
Reported: 03/17/2015
Project Name: MIRAGE 30 PM STATE COM #1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/11/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP. 5 @ 4' (H500681-04)

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	03/16/2015	ND	2.23	112	2.00	7.97	
Toluene*	<0.050	0.050	03/16/2015	ND	2.04	102	2.00	9.48	
Ethylbenzene*	<0.050	0.050	03/16/2015	ND	1.97	98.6	2.00	9.75	
Total Xylenes*	<0.150	0.150	03/16/2015	ND	5.85	97.4	6.00	8.65	
Total BTX	<0.300	0.300	03/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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	03/16/2015	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	03/14/2015	ND	181	90.5	200	3.49	
DRO >C10-C28	<10.0	10.0	03/14/2015	ND	189	94.6	200	3.39	

Surrogate: 1-Chlorooctane 91.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.3 % 52.1-176

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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: 03/12/2015
Reported: 03/17/2015
Project Name: MIRAGE 30 PM STATE COM #1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/11/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP. 6 @ 10' (H500681-05)

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	03/16/2015	ND	2.23	112	2.00	7.97	
Toluene*	<0.050	0.050	03/16/2015	ND	2.04	102	2.00	9.48	
Ethylbenzene*	<0.050	0.050	03/16/2015	ND	1.97	98.6	2.00	9.75	
Total Xylenes*	0.243	0.150	03/16/2015	ND	5.85	97.4	6.00	8.65	
Total BTEx	<0.300	0.300	03/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	48.0	16.0	03/16/2015	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	21.8	10.0	03/14/2015	ND	181	90.5	200	3.49	
DRO >C10-C28	693	10.0	03/14/2015	ND	189	94.6	200	3.39	

Surrogate: 1-Chlorooctane 96.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.1 % 52.1-176

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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:	03/12/2015	Sampling Date:	03/11/2015
Reported:	03/17/2015	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: SP. 7 @ 13' (H500681-06)

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	03/16/2015	ND	2.23	112	2.00	7.97		
Toluene*	<0.050	0.050	03/16/2015	ND	2.04	102	2.00	9.48		
Ethylbenzene*	<0.050	0.050	03/16/2015	ND	1.97	98.6	2.00	9.75		
Total Xylenes*	<0.150	0.150	03/16/2015	ND	5.85	97.4	6.00	8.65		
Total BTX	<0.300	0.300	03/16/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	03/16/2015	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	03/14/2015	ND	181	90.5	200	3.49		
DRO >C10-C28	46.1	10.0	03/14/2015	ND	189	94.6	200	3.39		

Surrogate: 1-Chlorooctane 90.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 104 % 52.1-176

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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: 03/12/2015
 Reported: 03/17/2015
 Project Name: MIRAGE 30 PM STATE COM #1H
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/11/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP. 8 @ 4' (H500681-07)

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	03/16/2015	ND	2.23	112	2.00	7.97	
Toluene*	<0.050	0.050	03/16/2015	ND	2.04	102	2.00	9.48	
Ethylbenzene*	<0.050	0.050	03/16/2015	ND	1.97	98.6	2.00	9.75	
Total Xylenes*	<0.150	0.150	03/16/2015	ND	5.85	97.4	6.00	8.65	
Total BTEx	<0.300	0.300	03/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 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	03/16/2015	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	03/14/2015	ND	181	90.5	200	3.49	
DRO >C10-C28	10.9	10.0	03/14/2015	ND	189	94.6	200	3.39	

Surrogate: 1-Chlorooctane 89.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 98.1 % 52.1-176

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>McBourne Oil</u>		P.O. #:		BILL TO																																	
Project Manager: <u>Mike Barton</u>		Company: <u>McBourne Oil</u>		ANALYSIS REQUEST																																	
Address:		City:		State:		Zip:		Attn: <u>Zack Thomas</u>		Address:		City:		State:		Zip:																					
Phone #:		Fax #:		Project Owner:		Project Name:		Project Location: <u>Mileage 30 Pm State cam LH</u>		Phone #:		Fax #:		Matrix:		Preserv:		Sampling:																			
Sample Name: <u>Brian Lewis</u>		Lab I.D.:		Sample I.D.:		(G)RAB CR (C)OMP		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER		ACID/BASE		ICE / COOL		OTHER		DATE		TIME		CL		YTH		B-tex	
FOR LAB USE ONLY		1		SP2 @ 5'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
2		SP3 @ 5'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
3		SP4 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
4		SP5 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
5		SP6 @ 10'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
6		SP7 @ 13'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
7		SP8 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
8		SP9 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
9		SP10 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
10		SP11 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
11		SP12 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
12		SP13 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
13		SP14 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
14		SP15 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
15		SP16 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
16		SP17 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
17		SP18 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
18		SP19 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
19		SP20 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
20		SP21 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
21		SP22 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
22		SP23 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
23		SP24 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
24		SP25 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
25		SP26 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
26		SP27 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
27		SP28 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
28		SP29 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
29		SP30 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
30		SP31 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
31		SP32 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
32		SP33 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
33		SP34 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
34		SP35 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
35		SP36 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
36		SP37 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
37		SP38 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
38		SP39 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
39		SP40 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
40		SP41 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
41		SP42 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
42		SP43 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
43		SP44 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
44		SP45 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
45		SP46 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
46		SP47 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
47		SP48 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
48		SP49 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
49		SP50 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
50		SP51 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
51		SP52 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
52		SP53 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
53		SP54 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
54		SP55 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
55		SP56 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
56		SP57 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
57		SP58 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
58		SP59 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
59		SP60 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
60		SP61 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
61		SP62 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
62		SP63 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
63		SP64 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
64		SP65 @ 4'		9		1		X		X		X		X		X		X		X		X		X		X		X		X		X		X		X	
65		SP66 @ 4'		9		1																															

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,



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
Reported: 04/06/2015
Project Name: MIRAGE 30 PM STATE COM #1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/31/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BS. 1 (H500855-01)

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	04/02/2015	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 (PIL) 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

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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. 2 (H500855-02)

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 (PIL) 104 % 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	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

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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
Reported: 04/06/2015
Project Name: MIRAGE 30 PM STATE COM #1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/31/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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 (PIL) 104 % 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	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

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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
Reported: 04/06/2015
Project Name: MIRAGE 30 PM STATE COM #1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/31/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BS. 4 (H500855-04)

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 (PIC) 104 % 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	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

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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
Reported: 04/06/2015
Project Name: MIRAGE 30 PM STATE COM #1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/31/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BS. 5 (H500855-05)

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	04/03/2015	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 (PIL) 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	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

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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
Reported: 04/06/2015
Project Name: MIRAGE 30 PM STATE COM #1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/31/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BS. 6 (H500855-06)

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 (PIL) 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	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

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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. 7 (H500855-07)

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 (PIL) 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	<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

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celest 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
Reported: 04/06/2015
Project Name: MIRAGE 30 PM STATE COM #1H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/31/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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 (PIC) 107 % 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	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

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

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 whatsoever 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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to (576) 383-4326

Appendix V

SEED REPORT

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394

DIVERSIFIED FIELD SERVICES, INC.

Project: Mirage 30 State Coml H

Date Started: 4/18/15

Seed and lbs used: 25 pds BIMFI

Date Completed: 4/18/15

Bamert Seed Company Inc.

1827 CR 1018 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

BLM #1 100# bulk

INV55334

Designation	Pure Seed	Germ	Dormant	Hard Seed	Origin
Dro. Seed, Sand, "VNS" (Sporobolus cryptandrus)	13.93%	9.00%	86.00%	0.00%	
Grass, Sideoats "El Reno" (Bouteloua curtipendula)	74.43%	86.00%	3.00%	0.00%	TX
Lovegrass Sand, "Bend" (Eragrostis trichodes)	8.43%	52.00%	27.00%	0.00%	TX
Purity: 96.80%	Inert Matter: 3.02%	Other Crop Seed: 0.01%	Weed Seed: 0.18%		

Noxious Weeds: None

Test Date: 10/2014

Net Wt: 25.00 lbs

Supervisor: 

Appendix VI

FINAL C-141

Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
(575) 964-8394

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Mewbourne Oil Company	Contact: Zack Thomas	
Address: PO Box 5270 Hobbs NM 88241	Telephone No. 575-393-5905	
Facility Name: Mirage 30 PM St. Com #1H Battery	Facility Type: Oil producing Well	
Surface Owner: State	Mineral Owner: State	API No. 30-015-40753

LOCATION OF RELEASE

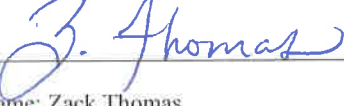
Unit Letter P	Section 30	Township 19S	Range 29E	Feet from the 300'	North/South Line South	Feet from the 150'	East/West Line East	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	-----------------------	------------------------	----------------

Latitude 32.625402 Longitude -104.10611632

NATURE OF RELEASE

Type of Release: Oil/produced water	Volume of Release: estimated 10 bbls total fluid	Volume Recovered: 5 bbls total fluid
Source of Release: Compressor separator	Date and Hour of Occurrence 3-9-15	Date and Hour of Discovery 3-9-15 9:30 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher & Ian Dolby	
By Whom? Zack Thomas	Date and Hour 3-9-15 1:45 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.*		
Cause of the leak- Gas pressure to dumps on separation equipment was lost sending fluid to compressor separator. Compressor separator in turn vented fluid onto ground. Upon arrival pumper closed the vent line stopping the release. Vent line was then re-routed to water tanks.		
Describe Area Affected and Cleanup Action Taken.*		
Affected area- Fluid ran onto pad surface on North side of compressor before running off the pad an estimated 200 ft. out into the pasture. 5 bbls of total fluid was recovered from pasture via vacuum truck. Clean up action will include removing contaminated soil to NMOCD regulation standards and replacing with clean backfill then reseeded.		
Remediation activities conducted at the Mirage 30 PM St. Com #1H Battery release site met the objectives set forth by the NMOCD. Please reference the Closure Report, dated May 7, 2015, for details of remediation activities and the results of the confirmation soil samples.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

OIL CONSERVATION DIVISION

Signature: 	Approved by Environmental Specialist:	
Printed Name: Zack Thomas		
Title: Environmental Rep.	Approval Date:	Expiration Date:
E-mail Address: zthomas@mewbourne.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 5-13-15	Phone: 575-602-2188	

* Attach Additional Sheets If Necessary