



Hornsby 35 Fed 2-3 Battery

CLOSURE REPORT

Release Date: 7/26/2015

UL/E Sec 35, T26 south, R27 east, Eddy county NM

API # 30-015-42208

February 11, 2016

Prepared by:

Lance Crenshaw, Project Manager

Environmental Department

Diversified Field Service, Inc.

206 West 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 C-141

Appendix II – Site Photographs

Appendix III – Site Diagram

Appendix IV – Laboratory Analyses/Field Data/Groundwater Search

Appendix V – Final C-141

Hornsby 35 Fed 2-3 Battery

1 INTRODUCTION

Cimarex Energy has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located southeast of Whites City, NM, in Eddy County. The leak site resulted from a 4" flowline failure. The impacted area is inside of the lined battery and on the location pad just outside of the containment. Approximately 59 bbls of produced water was released, with 45 bbls inside the lined containment and 14 bbls on the pad. All fluids inside the lined containment were recovered; 10 bbls were recovered on the pad. A C-141 was submitted to the NMOCD on July 27, 2015. The C-141 is attached.

2 SITE ACTIVITIES

On September 17, 2015, DFSI personnel did a site assessment and mapped the spill location. On September 22, 2015, DFSI personnel returned to the location to begin soil sampling. Six sample points were delineated vertically. Each sample was tested for chloride levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). The clean field samples were taken to a lab for confirmation. The results are attached.

DFSI personnel returned to the location on February 2, 2016, to begin excavation. In the areas of SP1-SP3, 2' of contaminated soil was removed. In the areas of SP4-SP6, 1' of contaminated soil was removed. All contaminated material was hauled to an approved NM state disposal. Fresh caliche was then brought in for backfill, and the location was returned to its previous state. Photos of the work being done can be viewed in Appendix II.

3 CONCLUSION

DFSI, on behalf of Cimarex, respectfully requests the closure of the regulatory file for the site.

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

Form C-141
Revised August 8, 2011

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

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 Cimarex Energy	Contact Christine Alderman
Address 600 N Marienfeld Ste 600 Midland TX	Telephone No. 432-853-7059
Facility Name Hornsby 35 Fed 3H	Facility Type production
Surface Owner Federal	Mineral Owner
API No. 30-015-42208	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	35	26S	27E	210	S	1310	W	Eddy

Latitude 32.0005684 Longitude -104.1651154

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 59 bbls	Volume Recovered 55 bbls
Source of Release 4" poly flow line	Date and Hour of Occurrence 7/26/15	Date and Hour of Discovery 7/26/15
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/Shelly Tucker	
By Whom? Christine Alderman	Date and Hour 7/27/15 1:33 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.*

NA

Describe Cause of Problem and Remedial Action Taken.*

Poly line ruptured due to pressure. 45 bbls were contained within a lined containment and were recovered. 14 bbls were on location pad just outside of containment and 10 bbls were recovered.

Describe Area Affected and Cleanup Action Taken.*

Environmental consulting company (Diversified) will be on location to sample and develop work plan.

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: <i>Christine Alderman</i>	OIL CONSERVATION DIVISION	
Printed Name: Christine Alderman	Approved by Environmental Specialist:	
Title: ESH Supervisor	Approval Date:	Expiration Date:
E-mail Address: calderman@cimarex.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7/30/15	Phone: 432-853-7059	

* Attach Additional Sheets If Necessary

Appendix II

SITE PHOTOS



Hornsby 35 Fed 2-3H

PHOTO PAGE



Spill area behind tank battery



Spill area behind tank battery



Spill area with sample point



Spill area behind battery



Excavating spill area behind battery



Excavating spill area behind battery



Spill area fully excavated



Spill area fully excavated and backfilled with fresh caliche, site completed

Appendix III

SITE MAP

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

Site Diagram

**Cimarex, Hornsby 35 Fed 2-3H
UL/E, Sec. 35 T26S R27E
Eddy County, NM
Drafted By: Lance Crenshaw, 9-17-15**

0 0.005 0.01 0.02 Miles

**Spill Area:
3,525 sq. ft.**

Legend

Misc_points

Types

-  Electrical Box
-  Power Pole
-  Headers
-  Injection
-  Pumpjacks
-  Tanks
-  Valves
-  Other
-  Soil Bores
-  sample_pts
-  Source

Pipeline

Type

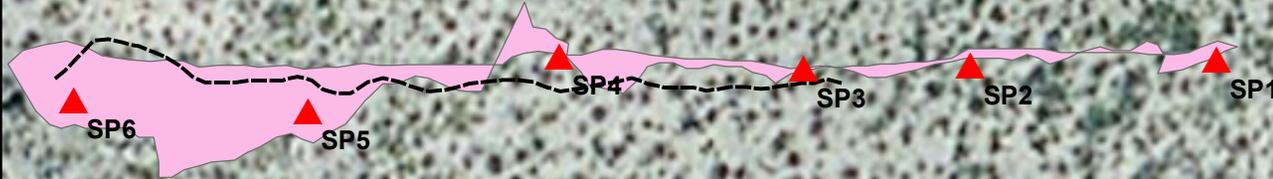
-  Above Ground Line
-  Buried Line

Spill

-  <all other values>

Spill_Media

-  Oil and Produced H2O
-  Oil
-  Other
-  Produced Water



Lance Crenshaw
GIS Technician

Soil Remediation and Ground Water Remediation
Environmental Assessments
Regulatory Compliance



Environmental **DFSI** Services

Office: 575-964-8394

Cell: 575-441-2359

Fax: 575-964-8396

Email: lcrenshaw@diversifiedfsi.com

Source: Esri, DigitalGlobe, GeoEye, i-c
swisstopo, and the GIS User Communi

Appendix IV

LABORATORY ANALYSES

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

Diversified Environmental Services

SP6	CHL	PID	SP7	CHL	PID	SP8	CHL	PID	SP9	CHL	PID	SP10	CHL	PID
Surface	2,674	16.8												
1'	250	505.3												
1'	272													

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples



September 29, 2015

KENNETH BROWNTREE
CIMAREX ENERGY CO.-MIDLAND
600 N. MARIENFELD ST, SUITE 600
MIDLAND, TX 79701

RE: HORNSBY 25 FED #3H

Enclosed are the results of analyses for samples received by the laboratory on 09/23/15 8:50.

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 style.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 CIMAREX ENERGY CO.-MIDLAND
 KENNETH BROWNTREE
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	09/23/2015	Sampling Date:	09/22/2015
Reported:	09/29/2015	Sampling Type:	Soil
Project Name:	HORNSBY 25 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SAMPLE PT. 1 @ 2' (H502512-01)

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	09/26/2015	ND	2.18	109	2.00	1.81	
Toluene*	<0.050	0.050	09/26/2015	ND	1.89	94.6	2.00	0.837	
Ethylbenzene*	<0.050	0.050	09/26/2015	ND	1.80	90.0	2.00	1.03	
Total Xylenes*	<0.150	0.150	09/26/2015	ND	5.76	96.1	6.00	0.741	
Total BTEX	<0.300	0.300	09/26/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/25/2015	ND	416	104	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	09/24/2015	ND	162	80.9	200	1.42	
DRO >C10-C28	148	10.0	09/24/2015	ND	173	86.3	200	0.855	

Surrogate: 1-Chlorooctane 73.1 % 47.2-157
Surrogate: 1-Chlorooctadecane 83.9 % 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:

 CIMAREX ENERGY CO.-MIDLAND
 KENNETH BROWNTREE
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	09/23/2015	Sampling Date:	09/22/2015
Reported:	09/29/2015	Sampling Type:	Soil
Project Name:	HORNSBY 25 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SAMPLE PT. 2 @ 2' (H502512-02)

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	09/26/2015	ND	2.18	109	2.00	1.81		
Toluene*	<0.050	0.050	09/26/2015	ND	1.89	94.6	2.00	0.837		
Ethylbenzene*	<0.050	0.050	09/26/2015	ND	1.80	90.0	2.00	1.03		
Total Xylenes*	<0.150	0.150	09/26/2015	ND	5.76	96.1	6.00	0.741		
Total BTEX	<0.300	0.300	09/26/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	09/25/2015	ND	416	104	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	09/24/2015	ND	162	80.9	200	1.42		
DRO >C10-C28	23.7	10.0	09/24/2015	ND	173	86.3	200	0.855		

Surrogate: 1-Chlorooctane 67.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 73.8 % 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:

 CIMAREX ENERGY CO.-MIDLAND
 KENNETH BROWNTREE
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	09/23/2015	Sampling Date:	09/22/2015
Reported:	09/29/2015	Sampling Type:	Soil
Project Name:	HORNSBY 25 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SAMPLE PT. 3 @ 2' (H502512-03)

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	09/26/2015	ND	2.18	109	2.00	1.81		
Toluene*	<0.050	0.050	09/26/2015	ND	1.89	94.6	2.00	0.837		
Ethylbenzene*	<0.050	0.050	09/26/2015	ND	1.80	90.0	2.00	1.03		
Total Xylenes*	<0.150	0.150	09/26/2015	ND	5.76	96.1	6.00	0.741		
Total BTEX	<0.300	0.300	09/26/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	09/25/2015	ND	416	104	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	09/25/2015	ND	162	80.9	200	1.42		
DRO >C10-C28	45.3	10.0	09/25/2015	ND	173	86.3	200	0.855		

Surrogate: 1-Chlorooctane 66.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 74.2 % 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:

 CIMAREX ENERGY CO.-MIDLAND
 KENNETH BROWNTREE
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	09/23/2015	Sampling Date:	09/22/2015
Reported:	09/29/2015	Sampling Type:	Soil
Project Name:	HORNSBY 25 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SAMPLE PT. 4 @ 1' (H502512-04)

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	09/26/2015	ND	2.18	109	2.00	1.81		
Toluene*	<0.050	0.050	09/26/2015	ND	1.89	94.6	2.00	0.837		
Ethylbenzene*	<0.050	0.050	09/26/2015	ND	1.80	90.0	2.00	1.03		
Total Xylenes*	<0.150	0.150	09/26/2015	ND	5.76	96.1	6.00	0.741		
Total BTEX	<0.300	0.300	09/26/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/25/2015	ND	416	104	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	09/25/2015	ND	162	80.9	200	1.42		
DRO >C10-C28	<10.0	10.0	09/25/2015	ND	173	86.3	200	0.855		

Surrogate: 1-Chlorooctane 78.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 79.3 % 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:

 CIMAREX ENERGY CO.-MIDLAND
 KENNETH BROWNTREE
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	09/23/2015	Sampling Date:	09/22/2015
Reported:	09/29/2015	Sampling Type:	Soil
Project Name:	HORNSBY 25 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SAMPLE PT. 5 @ 1' (H502512-05)

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	09/26/2015	ND	2.18	109	2.00	1.81	
Toluene*	<0.050	0.050	09/26/2015	ND	1.89	94.6	2.00	0.837	
Ethylbenzene*	<0.050	0.050	09/26/2015	ND	1.80	90.0	2.00	1.03	
Total Xylenes*	<0.150	0.150	09/26/2015	ND	5.76	96.1	6.00	0.741	
Total BTEX	<0.300	0.300	09/26/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	09/25/2015	ND	416	104	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	09/25/2015	ND	162	80.9	200	1.42	
DRO >C10-C28	<10.0	10.0	09/25/2015	ND	173	86.3	200	0.855	

Surrogate: 1-Chlorooctane 75.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 75.8 % 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:

 CIMAREX ENERGY CO.-MIDLAND
 KENNETH BROWNTREE
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	09/23/2015	Sampling Date:	09/22/2015
Reported:	09/29/2015	Sampling Type:	Soil
Project Name:	HORNSBY 25 FED #3H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SAMPLE PT. 6 @ 1' (H502512-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/28/2015	ND	2.04	102	2.00	2.21	
Toluene*	0.772	0.200	09/28/2015	ND	1.75	87.4	2.00	1.79	
Ethylbenzene*	3.18	0.200	09/28/2015	ND	1.67	83.5	2.00	1.51	
Total Xylenes*	6.51	0.600	09/28/2015	ND	5.37	89.5	6.00	1.51	
Total BTEX	10.5	1.20	09/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/25/2015	ND	416	104	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	352	10.0	09/25/2015	ND	162	80.9	200	1.42	
DRO >C10-C28	3240	10.0	09/25/2015	ND	173	86.3	200	0.855	

Surrogate: 1-Chlorooctane 109 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.8 % 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

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



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

BILL TO

ANALYSIS REQUEST

Company Name: Imarex
 Project Manager: Alex Finess Kenneth Brantner
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: Imarex
 Project Location: Horsby 25 Fed#34
 Sampler Name: Chris Finess
 P.O. #: _____ Company: Imarex
 Attn: Alex Finess
 Address: _____ City: _____
 State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chloride	TPH	BTEX	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:						ICE / COOL
<u>H502512</u>	<u>1</u>	<u>Q 2'</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>9:30 AM</u>	<u>9:40 AM</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	<u>2</u>	<u>Q 2'</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>10:40 AM</u>	<u>11:40 AM</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	<u>3</u>	<u>Q 2'</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>11:40 AM</u>	<u>1:05 PM</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	<u>4</u>	<u>Q 1'</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>1:05 PM</u>	<u>3:05 PM</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	<u>5</u>	<u>Q 1'</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>3:05 PM</u>	<u>3:05 PM</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
	<u>6</u>	<u>Q 1'</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>3:05 PM</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						

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 the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: _____ Date: 9-23-2015
 Received By: Staci Menden
 Date: 9:50
 Time: _____

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: -2.40
 Sample Condition: Cool Intact
 Yes No
 CHECKED BY: [Signature]

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS: email to: crenshaw@diversifiedsi.com
maves @
mburton @
mpatterson @
cflores @

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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

Basin/County Search:

County: Eddy

PLSS Search:

Section(s): 35, 36, 26, 25 **Township:** 26S **Range:** 27E



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

Basin/County Search:

County: Eddy

PLSS Search:

Section(s): 30, 31, 29, 32 **Township:** 26S **Range:** 28E

Appendix V

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
1301 W. Grand Avenue, 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 October 10, 2003
Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Cimarex Energy	Contact	Christine Alderman
Address	600 N Marienfeld Ste 600 Midland TX	Telephone No.	432-853-7059
Facility Name	Hornsby 35 Fed 3H	Facility Type	Production
Surface Owner	Federal	Mineral Owner	
		Lease No.	30-015-42208

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	35	26S	27E	210	S	1310	W	Eddy

Latitude 32.0005684 Longitude -104.1651154

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	59 bbls	Volume Recovered	55 bbls
Source of Release	4" Poly flow line	Date and Hour of Occurrence	7/26/15	Date and Hour of Discovery	7/26/15
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher/Shelly Tucker		
By Whom?	Christine Alderman	Date and Hour	7/27/15 1:33 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.*

Poly line ruptured due to pressure. 45 bbls were contained within a lined containment and were recovered. 14 bbls were on location pad just outside of containment and 10 bbls were recovered.

Describe Area Affected and Cleanup Action Taken.*

Diversified Environmental sampled the spill area and developed a work plan. The areas of SP1-SP3 were excavated to 2' BGS; the areas of SP4-SP6 were excavated to 1' BGS. All contaminated material was hauled to an approved NM state disposal. Fresh caliche was brought in for backfill. The location was returned to its previous state.

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:			
Printed Name: Christine Alderman	Approved by District Supervisor:		
Title: ESH Supervisor	Approval Date:	Expiration Date:	
E-mail Address: calderman@cimarex.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 2/11/16	Phone: 432-853-7059		

* Attach Additional Sheets If Necessary