

**RECEIVED**

By OCD District 1 at 1:41 pm, Jun 10, 2015

**APPROVED**; Conditional

By OCD District 1 at 1:41 pm, Jun 10, 2015



1. Ensure BLM concurrence/  
approval.

# Shell D State Com #13

## CLOSURE REPORT

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Release Date: 4/07/2015

UL/L Sec 36, T21 south, R36 east, Lea county NM

API # 30-025-31684

May 28, 2015

**Prepared by:**

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

# Table of Contents

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- 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

Appendix V – Final C-141

# Shell D State Com #13

## 1 INTRODUCTION

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

The site is located west of Eunice NM, in Lea County. The leak site resulted from a swedge breaking off the fiberglass tank. The impacted area is inside an unlined firewall of the battery. Approx. 20 bbls of produced water was released, and 15 bbls recovered. Approx. 167 bbls of oil was released, and 160 bbls recovered. A C-141 was submitted to the NMOCD on April 17, 2015. The C-141 is attached (Appendix I).

## 2 SITE ACTIVITIES

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On April 20, 2015 DFSI personnel delineated 2 sample points of the leak area. Each sample was tested for chloride levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). Clean samples were taken to a lab for confirmation. The results are attached (Appendix IV).

DFSI personnel returned to the location to begin remediation. The fiberglass tank was removed by Cimarex personnel. A total of 154 yards of contaminated soil was hauled out, after the entire bermed facility was dug out to 2' bgs. DFSI personnel then backfilled the area with fresh caliche and installed a .20 mil liner. Two inches of fresh caliche was backfilled on top of the liner per Jaime Castillo of Cimarex. DFSI personnel also built new berms for the facility and the location was restored to its previous state.

Photographs of site activities can be viewed in Appendix II.

## 3 CONCLUSION

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DFSI conducted a groundwater study of the area and determined that according to the New Mexico Office of the State Engineer the average depth to groundwater for this area is 181 foot below ground surface. Therefore, no eminent danger of groundwater impact or threat to life was anticipated. DFSI, on behalf of Cimarex, respectfully requests the closure of the regulatory file for the site.

# Appendix I

INITIAL FORM C-141

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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	Shell D State Com 13	Facility Type	production

Surface Owner	Mineral Owner	API No.	30-025-31684
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	36	21S	36E	1780	S	760	W	Lea

Latitude 32.4329 Longitude -103.2249

**NATURE OF RELEASE**

Type of Release	crude oil and produced water	Volume of Release	167 bbls oil/ 20 bbls PW	Volume Recovered	160 bbls oil/ 15 bbls PW
Source of Release	tank	Date and Hour of Occurrence	4/7/2015	Date and Hour of Discovery	4/7/2015
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Doc Oberding		
By Whom?	Gloria Garza	Date and Hour	4/8/2015 10:53 am		
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.\*

While trying to unload tank into haul truck, the hauler tried to remove the bull plug off the valve and the reducing swedge broke off the fiberglass tank and released fluids into unlined containment.

Describe Area Affected and Cleanup Action Taken.\*

All fluids contained in unlined containment. Consulting company will assess, delineate and submit workplan.

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: <u>Christine Alderman</u>	<b><u>OIL CONSERVATION DIVISION</u></b>		
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: 4/17/2015	Phone: 432-853-7059		

\* Attach Additional Sheets If Necessary

# Appendix II

## SITE PHOTOS

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# Shell D State Com #13

## PHOTO PAGE

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Spill area inside bermed facility



Spill area inside bermed facility





Spill area inside bermed facility



Spill area inside bermed facility



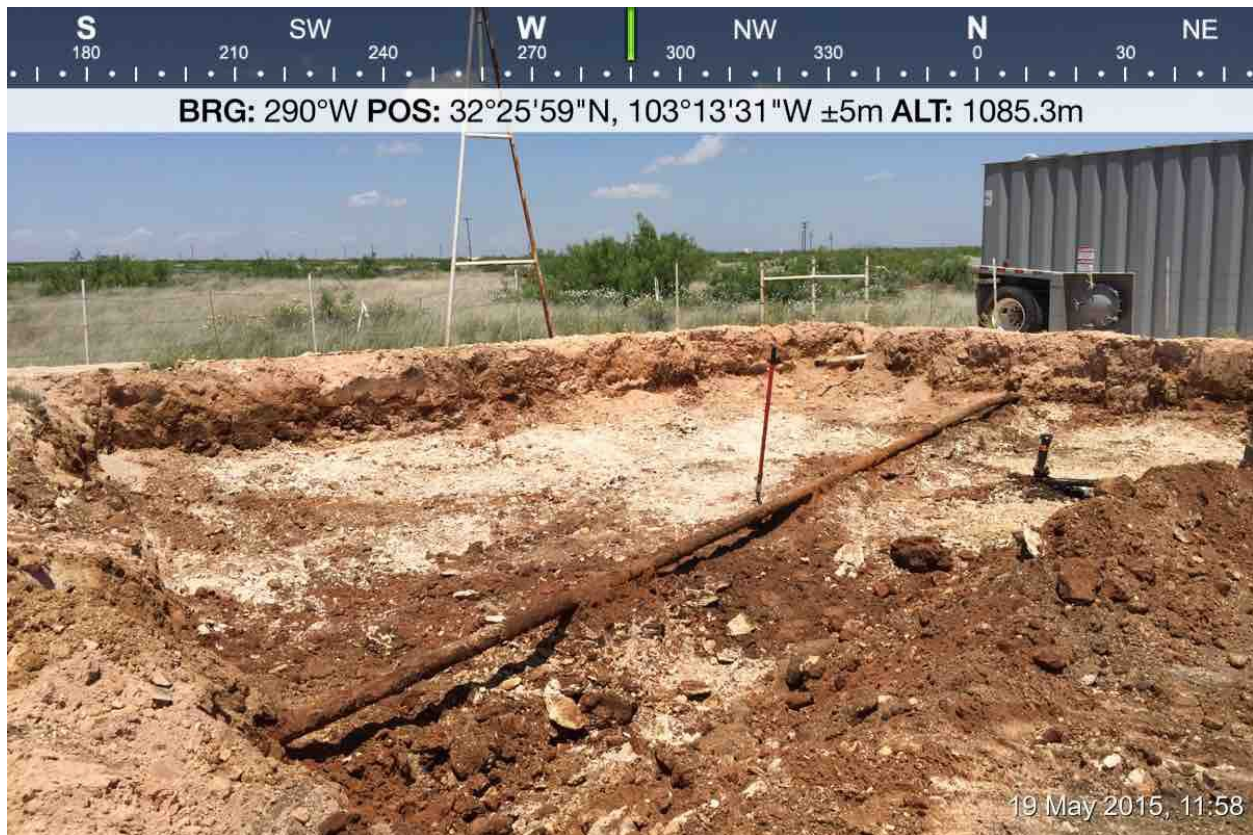
**BRG: 9°N POS: 32°25'59"N, 103°13'31"W ±5m ALT: 1085.9m**



19 May 2015, 11:58

Excavating area inside bermed facility after tank removal

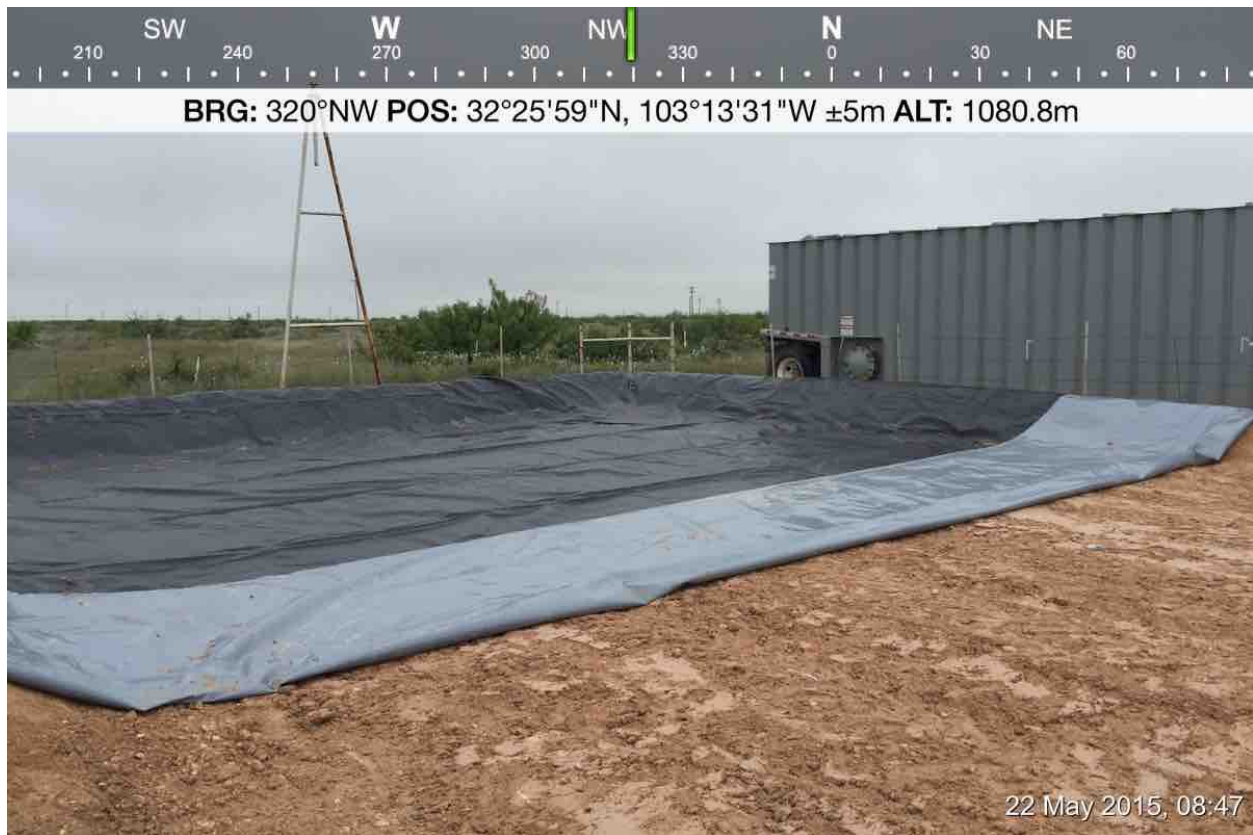




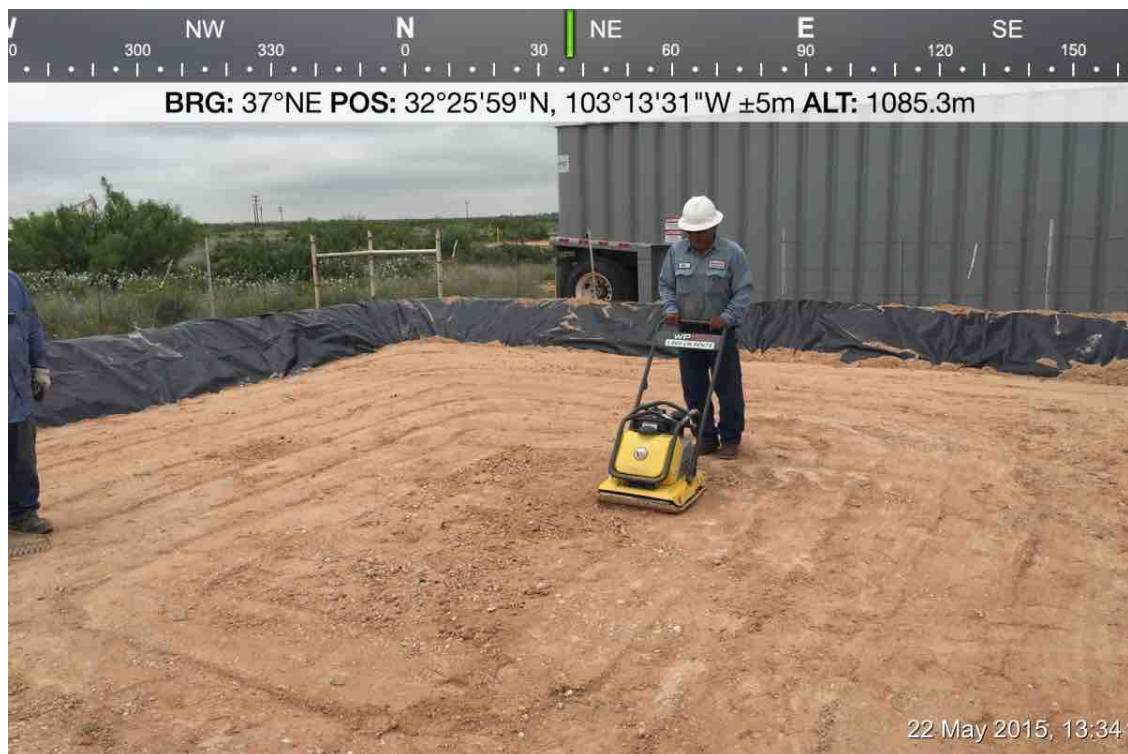
Entire bermed area excavated to 2' bgs



Backfilled area with fresh caliche



.20 mil liner installation inside bermed area

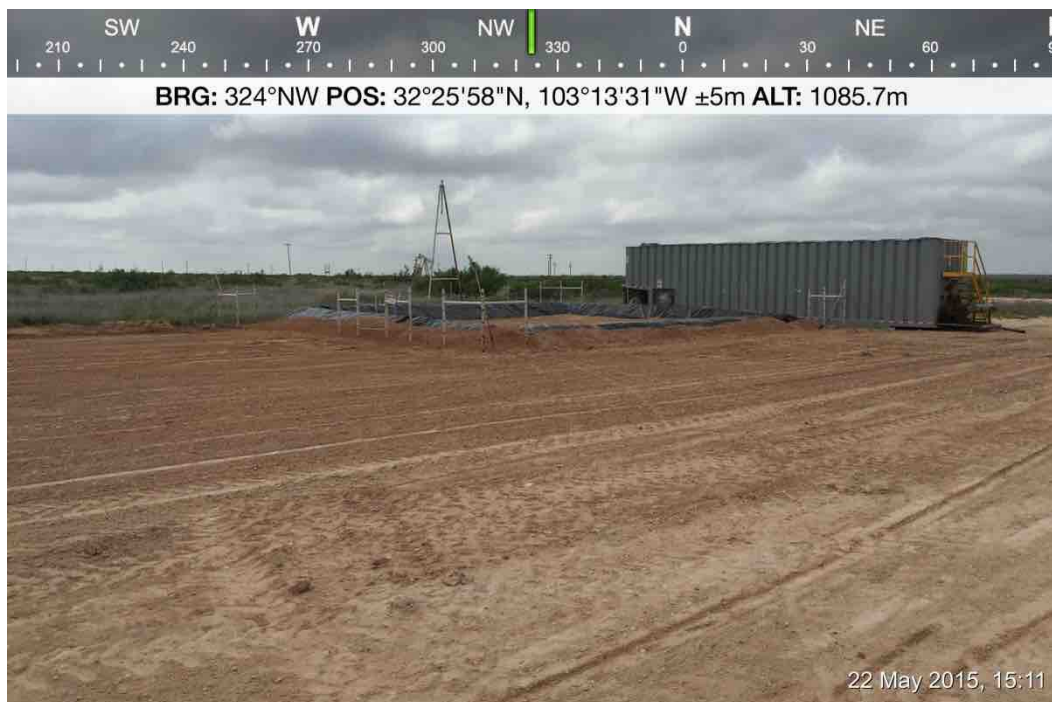


Compacting caliche after liner installation





Completed location with liner installation and rebuilt berms



Completed location with site returned to its previous state

# Appendix III

## SITE MAP

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

# Site Diagram

**Cimarex, Shell D State Com 13**  
**UL/L, Sec. 36 T21S R36E**  
**Lea County, NM**  
**Drafted By: Lance Crenshaw, 4-20-15**

0 0.0025 0.005 0.01 Miles

## Legend



### Misc\_points

#### Types


-  Electrical Box
-  Power Pole
-  Headers
-  Injection
-  Pumpjacks
-  Tanks
-  Valves
-  Other
-  Soil Bores
-  sample\_pts
-  Source

### Pipeline





#### Type

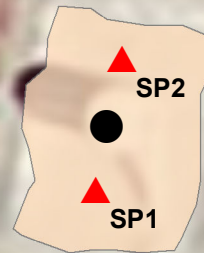
-  Above Ground Line
-  Buried Line

### Spill

-  <all other values>

### Spill\_Media

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



**Spill Area:**  
**628 sq. ft.**

Lance Crenshaw  
GIS Technician

Soil Remediation and Ground Water Remediation  
Environmental Assessments  
Regulatory Compliance



Environmental

**DFS**

Services

Source: Esri, DigitalGlobe, GeoEye, i-cubed, U  
swisstopo, and the GIS User Community

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

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

# Appendix IV

## LABORATORY ANALYSES

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



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

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April 24, 2015

MIKE BURTON

DIVERSIFIED FIELD SERVICES, INC.

P. O. BOX 5966

HOBBS, NM 88241

RE: SHELL STATE COM D 13

Enclosed are the results of analyses for samples received by the laboratory on 04/21/15 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



**Analytical Results For:**

DIVERSIFIED FIELD SERVICES, INC.  
MIKE BURTON  
P. O. BOX 5966  
HOBBS NM, 88241  
Fax To: (575) 393-2981

Received:	04/21/2015	Sampling Date:	04/20/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	SHELL STATE COM D 13	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: SP 1 @ 8 ' (H501033-01)**

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	04/22/2015	ND	2.13	106	2.00	0.0278	
Toluene*	<0.050	0.050	04/22/2015	ND	1.90	95.2	2.00	0.400	
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.81	90.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.72	95.4	6.00	1.48	
Total BTX	<0.300	0.300	04/22/2015	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	96.0	16.0	04/22/2015	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	04/21/2015	ND	210	105	200	0.511	
DRO >C10-C28	24.3	10.0	04/21/2015	ND	228	114	200	2.63	

Surrogate: 1-Chlorooctane 95.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 94.9 % 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:**

DIVERSIFIED FIELD SERVICES, INC.  
MIKE BURTON  
P. O. BOX 5966  
HOBBS NM, 88241  
Fax To: (575) 393-2981

Received:	04/21/2015	Sampling Date:	04/20/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	SHELL STATE COM D 13	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: SP 1 @ 9 ' (H501033-02)**

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	04/22/2015	ND	2.13	106	2.00	0.0278		
Toluene*	<0.050	0.050	04/22/2015	ND	1.90	95.2	2.00	0.400		
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.81	90.3	2.00	0.992		
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.72	95.4	6.00	1.48		
Total BTEx	<0.300	0.300	04/22/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/22/2015	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	04/21/2015	ND	210	105	200	0.511	
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	228	114	200	2.63	

Surrogate: 1-Chlorooctane 93.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.1 % 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

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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.



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Celey D. Keene, Lab Director/Quality Manager



## ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to (515) 393-2326

# Appendix V

FINAL C-141

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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	Shell D State Com 13	Facility Type	Production
Surface Owner	Mineral Owner	Lease No.	30-025-31684

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	36	21S	36E	1780	S	760	W	Lea

Latitude 32.4329 Longitude -103.2249

#### NATURE OF RELEASE

Type of Release	Crude oil and produced water	Volume of Release	167 oil/20 bbls pw	Volume Recovered	160 bbls oil/15 bbls pw
Source of Release	tank	Date and Hour of Occurrence	4-7-15	Date and Hour of Discovery	4-7-15
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Doc Oberding		
By Whom?	Gloria Garza	Date and Hour	4-8-15 10:53 a.m.		
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.\*

While trying to unload tank into haul truck, the hauler tried to remove the bull plug off the valve and the reducing swedge broke off the fiberglass tank and released fluids into unlined containment.

Describe Area Affected and Cleanup Action Taken.\*

All fluids contained in unlined containment. Diversified Field Services excavated the affected area to 2' bgs. Fresh caliche was brought in for backfill, and a .20 mil liner was installed and backfilled with two inches of caliche. Firewalls were also rebuilt and 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.

Signature: <i>Christine Alderman</i>	<u>OIL CONSERVATION DIVISION</u>	
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: 4-17-15 Phone: 432-853-7059		

\* Attach Additional Sheets if Necessary