

RECEIVED

By OCD District 1 at 3:05 pm, Jun 09, 2015

APPROVED CONDITIONAL

By OCD District 1 at 3:22 pm, Jun 09, 2015



1. Ensure BLM concurrence.

Cascade 29 Fed #3

CLOSURE REPORT

Release Date: 3/29/2015

UL/D Sec 26, T26 south, R32 east, Lea County NM

API # 30-025-41241

May 27, 2015

Prepared by:

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

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Cascade 29 Fed #3

1 INTRODUCTION

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

The site is located south of highway 128 NM, in Lea County. The leak site resulted from a backhoe running over the line causing it to rupture. The impacted area is all in pasture land. Approximately 60 bbls of produced water was released, and 0 bbls recovered. A C-141 was submitted to the NMOCD on April 2, 2015 (Appendix I).

2 SITE ACTIVITIES

On April 3, 2015, DFSI personnel delineated two 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). The results are attached.

On April 14, 2015, DFSI personnel used a mechanical auger to drill down and complete delineation of the site in one sample point. Two clean samples were obtained at 30' and 31'. The same testing method as above was used. Two connective clean samples were taken to the lab for confirmation. The results are attached.

DFSI personnel returned to the site to begin excavation. The entire spill area of 10,180 sq. ft. was dug to 4' bgs and hauled off to an approved disposal. A hydrovac was used to dig out the area between two trunk lines that ran through the spill area. A .20 mil liner was installed and fresh topsoil was used to backfill. The backfilled area was then seeded with a BLM approved seed mixture to restore the site to its previous state.

Photographs of site activities 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

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	Cimarex Energy	Contact	Christine Alderman
Address	600 N Marienfeld Ste 600 Midland TX	Telephone No.	432-853-7059
Facility Name	Cascade 29 Fed 3	Facility Type	production

Surface Owner	Mineral Owner	API No.	30-025-41241
---------------	---------------	---------	--------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	11	26S	32E	330	N	2310	E	Lea

Latitude 32.064165 Longitude -103.652791

NATURE OF RELEASE

Type of Release	produced water	Volume of Release	60 bbls	Volume Recovered	0
Source of Release	flowline	Date and Hour of Occurrence	3/29/2015	Date and Hour of Discovery	3/29/2015
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Doc Oberding/ Sol Hughes		
By Whom?	Christine Alderman	Date and Hour	3/30/2015 3:53 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.*

It appeared that a backhoe (not hired by Cimarex) had driven through the pasture and ran over our line causing it to rupture.

Describe Area Affected and Cleanup Action Taken.*

The fluids impacted an area approximately 75' x 60' in pasture area. An arch study has been requested and a consulting company will be onsite to develop 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: <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: 4/2/2015	Phone: 432-853-7059	

* Attach Additional Sheets If Necessary



Incident Report

Incident Id: 1101
Incident Date: Mar 28 2015 10:00AM
Revised: Yes
Revision Number: 1
Revision Date: Apr 1 2015 10:51AM
Revised By: Christine Alderman
Client: Hobbs East
Company Location: Lease
Lease: Cascade 29 Fed 3
State: NM
Department: Production
Incident Type: Spill / Release
Sub Type: Reportable
Injuries: No
Operation: On Production
Description: Someone pulled up on my location at the Red Hills SWD and informed me of a poly line that had been ruptured

When the pumper arrived at the leak he informed me that it appeared that it appears that a backhoe had traveled out into the pasture and had run over our poly line causing damage to about 8' section of poly line. We concluded this by the backhoe tracks running out into the pasture around our line.

Comments:

Appendix II

SITE PHOTOS



Cascade 29 Fed #3

PHOTO PAGE

5/27/15



4/3/2015





4/14/2015

Auger drilling





Excavating spill area to 3' bgs



Excavating spill area to 3' bgs



Using hydrovac to dig between trunk lines



Excavated spill area, ready for liner installation



Liner installation in excavated area



Liner installation in excavated area



Backfilled area after liner installation



Backfilled area after liner installation



Seeding backfilled area



Seeding backfilled area



Completed location after seeding and tilling



Completed location after seeding and tilling



Completed location after seeding and tilling

Appendix III

SITE MAP

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

Site Diagram

Cimarex, Cascade 29 Fed 3
UL/D, Sec. 11 T26S R32E
Lea County, NM
Drafted By: Lance Crenshaw, 4-6-15

0 0.00375 0.0075 0.015 Miles

Legend

Misc_points

Types

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

Pipeline

Type

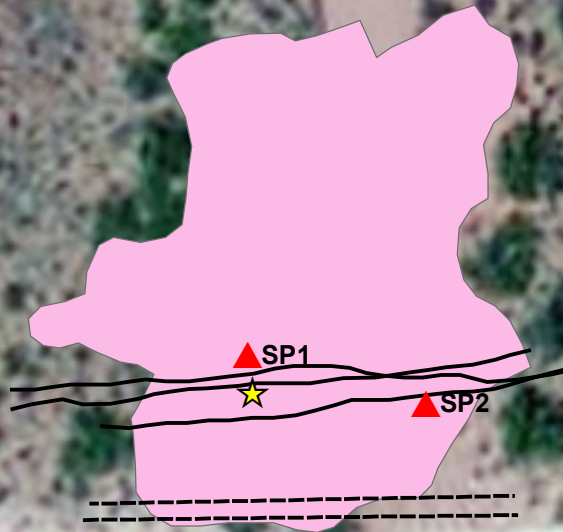
- Above Ground Line
- Buried Line

Spill

- <all other values>

Spill_Media

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



Spill Area:
10,180 sq. ft.

Lance Crenshaw
 GIS Technician

Soil Remediation and Ground Water Remediation
 Environmental Assessments
 Regulatory Compliance



Environmental

DFS

Services

Office: 575-964-8394

Fax: 575-964-8396

Cell: 575-441-2359

Email: lcrenshaw@diversifiedfsi.com

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

Appendix IV

LABORATORY ANALYSES

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



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

April 17, 2015

CHRISTINE ALDERMAN
CIMAREX ENERGY CO.-MIDLAND
600 N. MARIENFELD ST, SUITE 600
MIDLAND, TX 79701

RE: CASCADE #29-3

Enclosed are the results of analyses for samples received by the laboratory on 04/15/15 15:19.

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:

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

Received:	04/15/2015	Sampling Date:	04/14/2015
Reported:	04/17/2015	Sampling Type:	Soil
Project Name:	CASCADE #29-3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: BH @ 30' (H500994-01)

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	04/16/2015	ND	1.92	96.0	2.00	5.77	
Toluene*	<0.050	0.050	04/16/2015	ND	1.79	89.3	2.00	4.31	
Ethylbenzene*	<0.050	0.050	04/16/2015	ND	1.69	84.7	2.00	7.29	
Total Xylenes*	<0.150	0.150	04/16/2015	ND	5.44	90.6	6.00	7.92	
Total BTX	<0.300	0.300	04/16/2015	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	04/16/2015	ND	432	108	400	7.69		

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	04/15/2015	ND	217	109	200	6.47	
DRO >C10-C28	<10.0	10.0	04/15/2015	ND	220	110	200	4.27	

Surrogate: 1-Chlorooctane 109 % 47.2-157

Surrogate: 1-Chlorooctadecane 118 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/15/2015
Reported: 04/17/2015
Project Name: CASCADE #29-3
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 04/14/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BH @ 31' (H500994-02)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2015	ND	1.92	96.0	2.00	5.77	
Toluene*	<0.050	0.050	04/16/2015	ND	1.79	89.3	2.00	4.31	
Ethylbenzene*	<0.050	0.050	04/16/2015	ND	1.69	84.7	2.00	7.29	
Total Xylenes*	<0.150	0.150	04/16/2015	ND	5.44	90.6	6.00	7.92	
Total BTX	<0.300	0.300	04/16/2015	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	04/16/2015	ND	432	108	400	7.69	

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	04/16/2015	ND	207	104	200	0.181	
DRO >C10-C28	<10.0	10.0	04/16/2015	ND	215	107	200	0.0470	

Surrogate: 1-Chlorooctane 114 % 47.2-157

Surrogate: 1-Chlorooctadecane 121 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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



Page 5 of 5

Company Name: Cimperex
Project Manager: Mike Burton

City: State: Zip:

Project #:	Project Owner:
------------	----------------

Project Location: Cascade 29-3

Sampler Name: gibson i0123

100

Sample I.D.

BHC 30'
BHC 31'

6	6	(G)RAB OR (C)OMP
1	1	# CONTAINERS

			GROUNDWATER
			WASTEWATER
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		SOIL
			OIL
			SLUDGE
			OTHER .
			ACID/BASE
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		ICE / COOL
			OTHER

DATE	TIME
4-14-15	4:00
4-14-15	4:20

XX	XX	CL
XX	XX	TPH
XX	XX	B-TEX

Date: 4/15

Received By:

Date:

Received By:

Sampler - UPS - Bus - Other:

Sample Condition	CHECKED BY: <u> </u> (Initials)
------------------	-------------------------------------------------------

CHECKED BY:
(Initials)

Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No			Add'l Phone #:
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No			Add'l Fax #:

REMARKS:

<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:

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

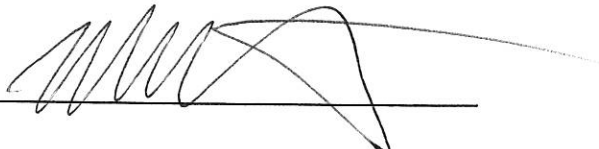
DIVERSIFIED FIELD SERVICES, INC.

Project: Cascade 29-3

Date Started: May 21st, 2015

Seed and lbs used: 37000 BLMFZ

Date Completed: May 21st 2015

Supervisor: 

Curtis and Curtis, Inc.

4500 North Prince
Clovis, NM 88130
Phone: (575) 762-4759
www.curtisseed.com

Mike Burton
1 Acre BLM #2, Broadcast Rate
1 - 1 Acre Bag @ 37.40 Bulk Pounds

Lot#: M-13033

<u>Item</u>	<u>Origin</u>	<u>Purity</u>	<u>Germ</u>	<u>Dormant</u>	<u>Total Germination</u>	<u>Test Date</u>	<u>Total PLS Pounds</u>
Sand Dropseed VNS	Colorado	11.26%	21.00%	74.00%	95.00%	01/15	4.00
Little Bluestem Blaze	Nebraska	16.54%	97.00%	0.00%	97.00%(TZ)	02/15	6.00
Coreopsis Plains	Oregon	11.03%	97.00%	0.00%	97.00%	01/15	4.00
Plains Bristlegrass VNS	Oklahoma	27.86%	15.00%	81.00%	96.00%	03/15	10.00
Sideoats Grama Vaughn	Texas	20.84%	46.00%	31.00%	77.00%	11/14	6.00

Other Crop:	0.43%	There Are 1 Bags For This Mix This Bag Weighs 37.40 Bulk Pounds Use This Bag For 1 Acres	Total Bulk Pounds:	37
Weed Seed:	0.45%			
Inert Matter:	11.59%			

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	Cascade 29 Fed 3	Facility Type	Production

Surface Owner	Mineral Owner	Lease No.	30-025-41241
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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
D	11	26S	32E	330	N	2310	E	Lea

Latitude 32.064165 Longitude -103.652791

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	60 bbls	Volume Recovered	0
Source of Release	flowline	Date and Hour of Occurrence	3-29-15	Date and Hour of Discovery	3-29-15
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Doc Oberding/Sol Hughes		
By Whom?	Christine Alderman	Date and Hour	3-30-15 3:53 p.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.*

It appeared that a backhoe (not hired by Cimarex) had driven through the pasture and ran over our line causing it to rupture.

Describe Area Affected and Cleanup Action Taken.*

The fluids impacted an area approximately 75'x60' in pasture area. Diversified Field Services excavated the spill area to 4' bgs and backfilled with fresh topsoil. A BLM approved seed mix was then applied to the area, restoring it 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>	OIL CONSERVATION DIVISION	
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: 5/28/15	Phone: 432-853-7059	

* Attach Additional Sheets If Necessary