



Bonnie Fed Com 1H

CLOSURE REPORT

Release Date: 6/18/2015

UL/P Sec 35, T25 south, R26 east, Eddy County, NM

API # 30-015-42956

September 15, 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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Bonnie 35 Fed Com 1H

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 hammer union coming loose, due to vibration. The impacted area is on the east and back side of the battery. Approximately 15 bbls of produced water was released, and 5 bbls recovered. A C-141 was submitted to the NMOCD on June 19, 2015. The C-141 is attached (Appendix I).

2 SITE ACTIVITIES

On June 25, 2015, Diversified Environmental personnel visited the site to begin soil sampling. Three sample points were tested, and clean samples were attained at all three points at 1' bgs. The location was also mapped at this time.

On September 1, 2015, Diversified Environmental personnel revisited the site to begin excavation. The entire spill area was dug out to 1' bgs. Clean caliche was brought in for backfill. All contaminated soil was hauled to an approved NM state disposal. Photos are attached (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: Gloria Garza
Address: 600 N Marienfeld Ste 600 Midland TX	Telephone No. 432-234-3204
Facility Name: Bonnie 35 Federal Com	Facility Type: Tank Battery

Surface Owner: Federal	Mineral Owner	API No.: 30-015-42956
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LOCATION OF RELEASE

Unit Letter P	Section 35	Township 25S	Range 26E	Feet from the 200	North/South Line FSL	Feet from the 970	East/West Line FEL	County Eddy
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Latitude: 32.0795801765834 Longitude: -104.258295270376

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 15 BBLS	Volume Recovered: 5 BBLS
Source of Release: Water transfer line	Date and Hour of Occurrence: 6/18/2015 7:30 PM	Date and Hour of Discovery: 6/18/2015 7:30 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/Jeff Robertson	
By Whom? Gloria Garza	Date and Hour: 6/19/2015 9:26 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.*

A hammer union on the water transfer line came loose due to vibration from pressure.

Describe Area Affected and Cleanup Action Taken.*

Diversified Environmental Services will remediate the impacted soil.

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>Gloria Garza</i>		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Gloria Garza		Approved by Environmental Specialist:	
Title: ESH Tech	Approval Date:	Expiration Date:	
E-mail Address: ggarza@cimarex.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 6/19/15	Phone: 432-234-3204		

* Attach Additional Sheets If Necessary

Appendix II

SITE PHOTOS



Bonnie Fed Com 1H

PHOTO PAGE



Spill area on east side of battery



Spill area on east side of battery



Spill area behind battery



Spill area behind battery



Digging to 1' bgs behind battery area

North Elevation

☼ 198°S (T) ● 32°4'45"N, 104°15'48"W ±5m ▲ 1031m



Digging to 1' bgs behind battery

South East Elevation

☼ 299°NW (T) ● 32°4'44"N, 104°15'47"W ±5m ▲ 1024m



Excavated area behind battery

East Elevation

⊗ 266°W (T) ● 32°4'44"N, 104°15'47"W ±5m ▲ 1025m



04 Sep 2015, 2:06PM

Hauling off contaminated soil after 1' excavation behind battery



Excavated area on east side of battery



Excavating spill area on east side of battery



Backfilling excavated area with fresh caliche



Completed location, east side of battery



Completed location, behind battery

Appendix III

SITE MAP

Site Diagram

Cimarex, Bonnie 35 Federal Com
UL/P, Sec. 35 T25S R26E
Eddy County, NM
Drafted By: Lance Crenshaw, 6-22-15

0 0.004 0.008 0.016 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

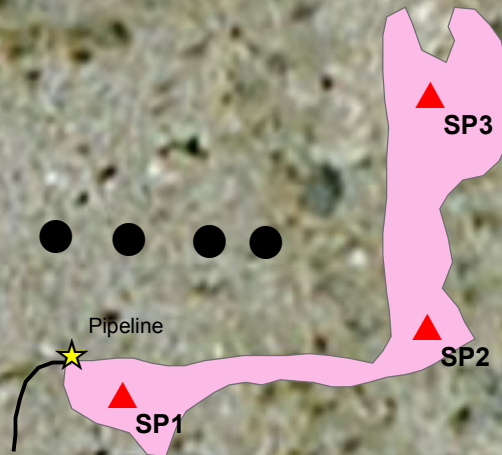
Spill

-  <all other values>

Spill_Media

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

Spill Area:
2,842 sq. ft.



Lance Crenshaw
GIS Technician

Soil Remediation and Ground Water Remediation
Environmental Assessments
Regulatory Compliance



Environmental

DFSI

Services

Source: Esri, DigitalGlobe, GeoEye, I-cubed, US
swisstopo, and the GIS User Community

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

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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 01013	C	ED		4	25	25S	26E			571505	3551456*	245		
C 02220	CUB	ED		3	1	2	26	25S	26E	569598	3552352*	35		
C 02221	CUB	ED		4	3	2	25	25S	26E	571412	3551961*	35		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 3

Basin/County Search:

County: Eddy

PLSS Search:

Section(s): 35, 34, 25, 26 **Township:** 25S **Range:** 26E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Appendix IV

LABORATORY ANALYSES

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

June 26, 2015

CHRISTINE ALDERMAN

CIMAREX ENERGY CO.-MIDLAND

600 N. MARIENFELD ST, SUITE 600

MIDLAND, TX 79701

RE: BONNIE 35 FED COM

Enclosed are the results of analyses for samples received by the laboratory on 06/25/15 8:06.

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:	06/25/2015	Sampling Date:	06/23/2015
Reported:	06/26/2015	Sampling Type:	Soil
Project Name:	BONNIE 35 FED COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP.1 @ 1' (H501646-01)

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	06/26/2015	ND	1.96	98.1	2.00	3.40	
Toluene*	<0.050	0.050	06/26/2015	ND	2.00	100	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/26/2015	ND	2.03	102	2.00	3.17	
Total Xylenes*	<0.150	0.150	06/26/2015	ND	5.73	95.5	6.00	2.41	
Total BTEX	<0.300	0.300	06/26/2015	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	06/26/2015	ND	416	104	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	06/25/2015	ND	166	82.8	200	3.75	
DRO >C10-C28	45.0	10.0	06/25/2015	ND	194	97.2	200	2.72	

Surrogate: 1-Chlorooctane 110 % 47.2-157

Surrogate: 1-Chlorooctadecane 135 % 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: 06/25/2015
Reported: 06/26/2015
Project Name: BONNIE 35 FED COM
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/23/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP.2 @ 1' (H501646-02)

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	06/26/2015	ND	1.96	98.1	2.00	3.40	
Toluene*	<0.050	0.050	06/26/2015	ND	2.00	100	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/26/2015	ND	2.03	102	2.00	3.17	
Total Xylenes*	<0.150	0.150	06/26/2015	ND	5.73	95.5	6.00	2.41	
Total BTEx	<0.300	0.300	06/26/2015	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/26/2015	ND	416	104	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	06/25/2015	ND	166	82.8	200	3.75	
DRO >C10-C28	<10.0	10.0	06/25/2015	ND	194	97.2	200	2.72	

Surrogate: 1-Chlorooctane 111 % 47.2-157

Surrogate: 1-Chlorooctadecane 132 % 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: 06/25/2015
Reported: 06/26/2015
Project Name: BONNIE 35 FED COM
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/23/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP.3 @ 1' (H501646-03)

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	06/26/2015	ND	1.96	98.1	2.00	3.40	
Toluene*	<0.050	0.050	06/26/2015	ND	2.00	100	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/26/2015	ND	2.03	102	2.00	3.17	
Total Xylenes*	<0.150	0.150	06/26/2015	ND	5.73	95.5	6.00	2.41	
Total BTEx	<0.300	0.300	06/26/2015	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	06/26/2015	ND	416	104	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	06/25/2015	ND	166	82.8	200	3.75	
DRO >C10-C28	33.6	10.0	06/25/2015	ND	194	97.2	200	2.72	

Surrogate: 1-Chlorooctane 115 % 47.2-157

Surrogate: 1-Chlorooctadecane 140 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



(575) 393-2326 FAX (575) 393-2476

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[illegible]

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	Gloria Garza
Address	600 N Marienfeld Ste 600 Midland TX	Telephone No.	432-234-3204
Facility Name	Bonnie 35 Federal Com	Facility Type	Tank Battery

Surface Owner	Federal	Mineral Owner		Lease No.	30-015-42956
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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
P	35	25S	26E	200	PSL	970	FEL	Eddy

Latitude 32.0795801765834 Longitude -104.258295270376

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	15 bbls	Volume Recovered	5 bbls
Source of Release	Water transfer line	Date and Hour of Occurrence	6-18-15	Date and Hour of Discovery	6-18-15 7:30 pm
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher/Jeff Robertson		
By Whom?	Gloria Garza	Date and Hour	6/19/15 9:26 AM		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

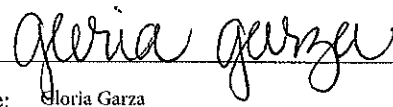
If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* A hammer union on the water transfer line came loose due to vibration from pressure.

Describe Area Affected and Cleanup Action Taken.*

An area of 2,842 sq. ft. was impacted. Diversified Environmental Services attained clean samples at 1' bgs at three sample points. The entire area was excavated to 1' bgs. Fresh caliche was brought in for backfill. All contaminated soil was hauled to an approved NM state disposal.

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: Gloria Garza		Approved by District Supervisor:	
Title: ESH Tech	Approval Date:	Expiration Date:	
E-mail Address: ggarza@cimarex.com	Conditions of Approval:	Attached <input type="checkbox"/>	
Date: 9/15/2015	Phone: 432-234-3204		

* Attach Additional Sheets If Necessary