

RECEIVED

By OCD District 1 at 1:12 pm, Jun 10, 2015

APPROVED CONDITIONAL

By OCD District 1 at 1:16 pm, Jun 10, 2015



This is a conditional closure.

1. RP-3506 will remain open until the site is decommissioned and delineated.
2. Ensure BLM concurrence/approval.

Cimarex Red Hills SWD #1

CLOSURE REPORT

Release Dates: 1/08/2015, 3/29/2015

UL/M Sec 28, T25 south, R33 east, Lea county NM

API # 30-025-35598

June 4, 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

- 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

Red Hills SWD #1

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 swedge failure. The impacted area is inside an unlined firewall of the battery. Approximately 140 bbls of produced water was released, and 120 bbls recovered. A C-141 was submitted to the NMOCD on January 9, 2015 (Appendix I).

A second spill at the site occurred during remediation. The leak resulted from the fiberglass line coming off the fiberglass water storage tank snapping at the connection. Approximately 330 bbls of produced water was released, and 270 bbls were recovered. A C-141 was submitted to the NMOCD on March 30, 2015 (Appendix I).

2 SITE ACTIVITIES

On February 3, 2015 DFSI personnel delineated 8 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 (Appendix IV).

DFSI personnel returned to the site to begin excavation. The entire spill area inside the bermed facility was excavated to 2' bgs. During remediation, a second spill occurred on location. DFSI re-sampled the location, as the new spill occurred over the same area as the first spill. The workplan for the first spill was implemented for the second spill and the site was restored to its previous state.

All contaminated soil was hauled to an approved NM state disposal. Fresh caliche was brought in for backfill. The berms were also rebuilt. The location was restored 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

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 Red Hills SWD #1	Facility Type SWD

Surface Owner	Mineral Owner	API No.
---------------	---------------	---------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	28	25S	33E	660	s	660	W	Lea

Latitude 32.09614 Longitude -103.58256

NATURE OF RELEASE

Type of Release produced water	Volume of Release 140 bbls	Volume Recovered 120 bbls
Source of Release tri plex pump	Date and Hour of Occurrence 01/08/2015	Date and Hour of Discovery 01/08/2015 12:00pm
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 01/09/15 2:06 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.*

A swedge failed on the discharge side of the tri-plex pump. All fluids were contained in an unlined earthen berm. Approximately 140 bbls were released, and 120 bbls were recovered.

Describe Area Affected and Cleanup Action Taken.*

119' x 68' bermed containment. An environmental consultant will assess and prepare 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 NMOC 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 NMOC 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, NMOC 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: 1-14-15 Phone: 432-853-7059			

* Attach Additional Sheets If Necessary

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 Red Hills SWD #1	Facility Type SWD	
Surface Owner	Mineral Owner	API No. 30-025-35598

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	28	25S	33E	660	s	660	W	Lea

Latitude 32.09614 Longitude -103.58256

NATURE OF RELEASE

Type of Release produced water	Volume of Release 330 bbls	Volume Recovered 270 bbls
Source of Release tri plex pump	Date and Hour of Occurrence 03/29/2015	Date and Hour of Discovery 03/29/2015 12:00pm
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 03/30/15 11:00am	
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.*

The fiberglass line coming off the fiberglass water storage tank snapped off at the connection.

Describe Area Affected and Cleanup Action Taken.*

119' x 68' bermed containment. An environmental consultant will assess and prepare work plan.

Added to original RP 3506

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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 Environmental Specialist:	
Title: ESH Supervisor	Approval Date:	Expiration Date:
E-mail Address: calderman@cimarex.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 3/30/2015	Phone: 432-853-7059	

* Attach Additional Sheets If Necessary

Appendix II

SITE PHOTOS



Red Hills SWD #1

Release Date: 1/08/2015, 3/29/2015

UL/M Sec 28, T25 south, R33 east, Lea county NM

API # 30-025-35598



Initial spill photos inside bermed area



Initial spill photos inside bermed area



Initial spill photos inside bermed area



Initial spill photos inside bermed area



Initial spill around tanks



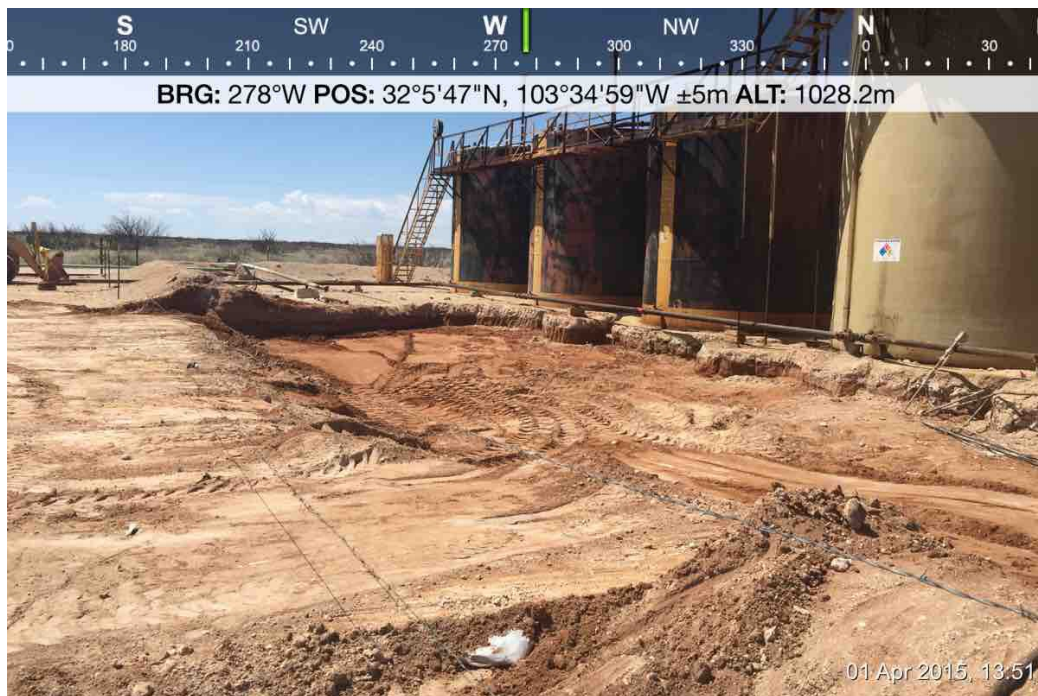
Initial spill around tanks



Second spill inside bermed area. Fluid being recovered by vacuum truck



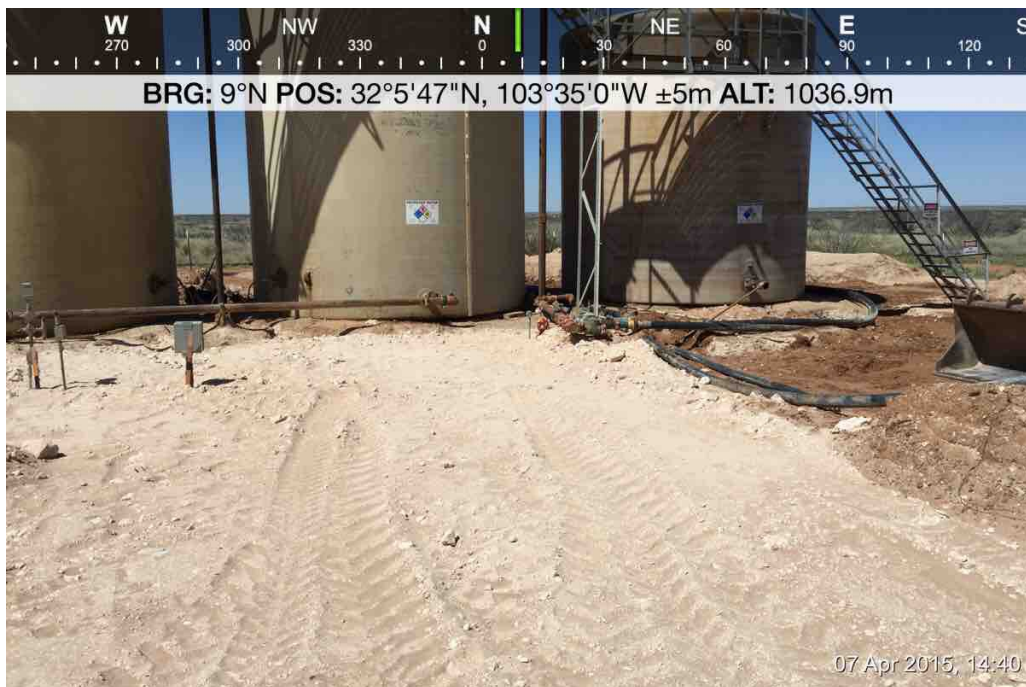
Spill area excavated to 2' bgs



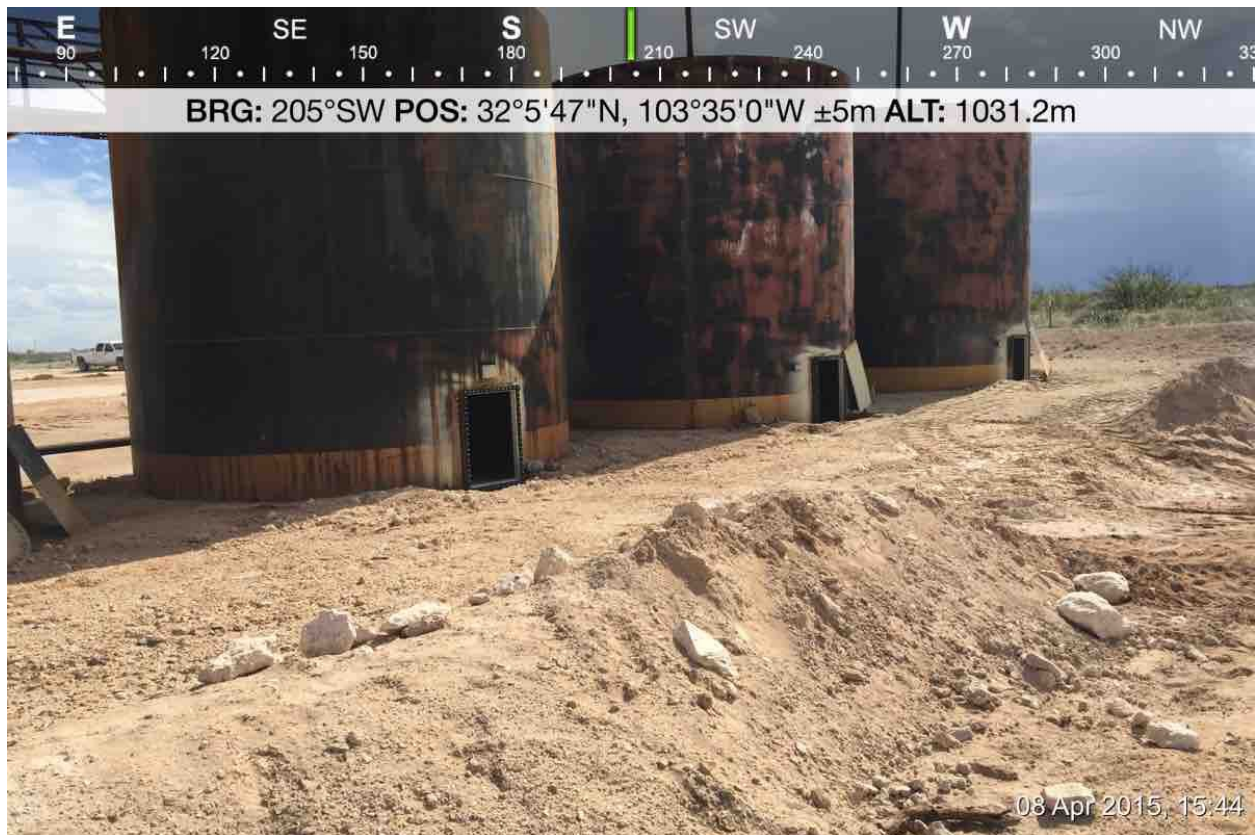
Spill area excavated to 2' bgs



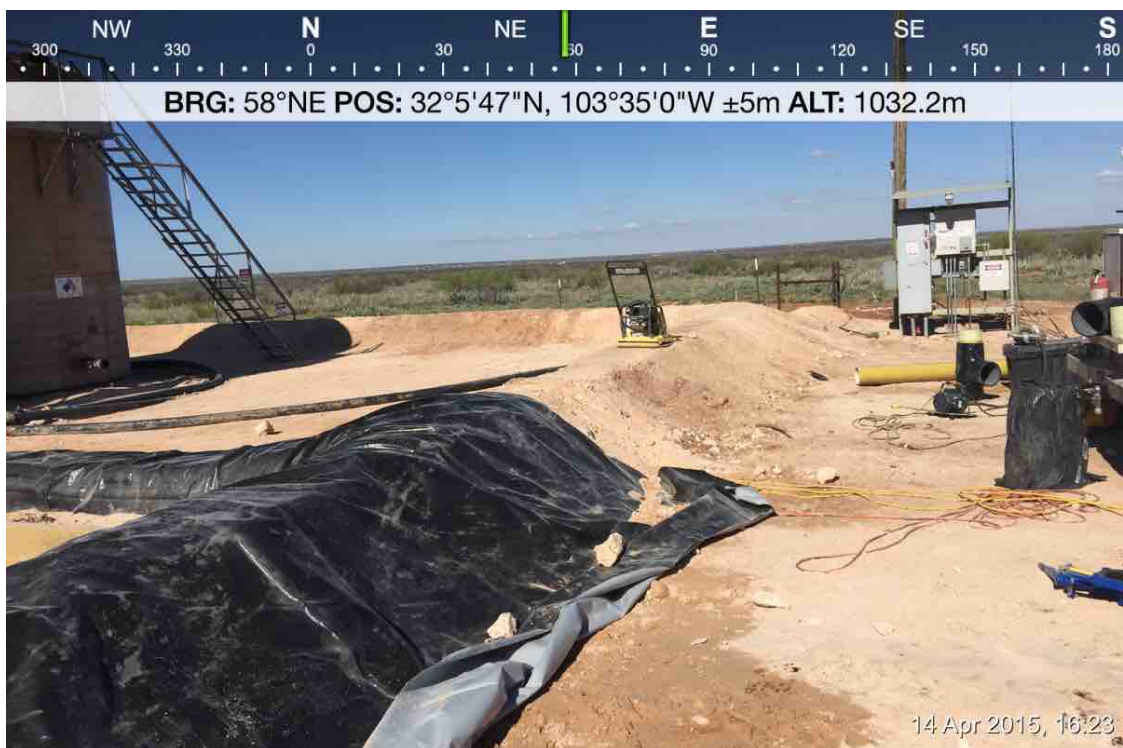
Fresh caliche being brought in for backfill



Fresh caliche being used for backfill



Caliche used for backfill around tanks



Compacting and constructing new berms around facility

Appendix III

SITE MAP

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

Site Diagram

Cimarex, Red Hills SWD #1
Sec. 28 T25S R33M
Lea County NM
Drafted By: Lance Crenshaw, 2-19-14











0 0.0025 0.005 0.01 Miles

Spill Area:
2,881 sq. ft.

Legend



Misc_points

Types


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

Pipeline





Type

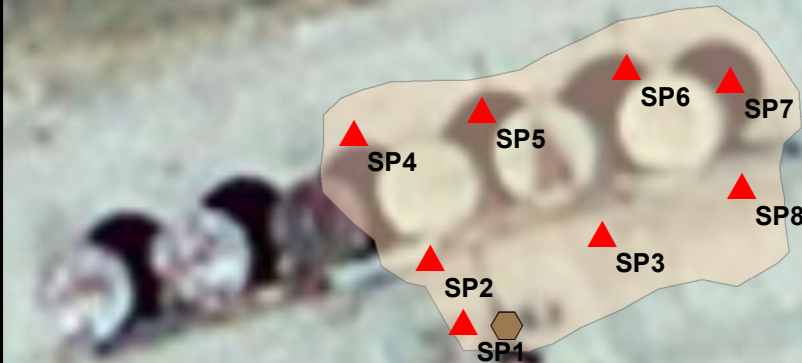
-  Above Ground Line
-  Buried Line

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

DFS

Services

Office: 575-964-8394

Fax: 575-964-8396

Cell: 575-441-2359

Email: lcrenshaw@diversifiedfsi.com

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

Appendix IV

FIELD SAMPLING ANALYSIS

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

Diversified Environmental Services

Company Name: cimarex
Location Name: red hills swd #1

SP Date: 2/4/2015
Rel Date: _____

SP1	CHL	PID
surf	874	386.9
1	5798	416.3
2	6647	94.9
3	6772	34.8
4	4748	12.9
5	4773	22.5
6	4998	13.8
7	4623	45.2
8	5448	61.3
9	3998	45.3
10	3623	99.7
11	2674	369.2
12	3174	260.1
13	3423	184.2
14	3298	124.6
15	3248	144.6
16	3298	109.4

SP2	CHL	PID
surf	2799	575.3
1	3373	70.9
2	3673	74.5
3	2999	110.7
4	4623	101.3
5	3698	14.5
6	3673	29.4
7	6098	5.1
8	4673	101.5
9	4623	9.5
10	4848	15.2
11	4448	22.5
12	4373	15.4
13	3873	40.3
14	3773	45.1
15	3598	10.5
16	3074	7.1

SP3	CHL	PID
surf	5598	
1	6847	
2	7347	
3	4823	
4	5748	
5	1824	
6	2799	
7	2324	
8	3573	
9	1899	
10	1974	
11	1999	
12	2624	
13	4098	
14	auger refusal	

SP4	CHL	PID
surf	799	75.4
1	1999	0
2	1749	0
3	4374	0
4	1474	0
5	1649	0
6	1899	0
7	3149	0
8	3224	0
9	3748	0
10	auger refusal	

SP5	CHL	PID
surf	1024	122
1	1749	52
2	3049	22
3	3823	5.4
4	749	0
5	1399	0
6	1499	0
7	2074	0.7
8	1624	0.9
9	3149	1.7
10	1274	1.5
11	1199	0.2
12	1274	0.1
13	1724	1.8
14	auger refusal	

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

Diversified Environmental Services

SP6	CHL	PID	SP7	CHL	PID	SP8	CHL	PID	SP9	CHL	PID	SP10	CHL	PID
surf	499	39.8	surf	1699	0.1	surf	1699	20.5						
1	3099	20.6	1	5948	0	1	5948	0						
2	3298	3.9	2	3099	0	2	3099	0						
3	5123	1.4	3	2374	0	3	2374	0						
4	1274	6.7	4	2924	0	4	2924	0						
5	1274	0.1	5	1149	0	5	1149	0						
6	1199	0.8	6	1024	0	6	1024	0						
7	824	0.1	7	524	0	7	524	0						
8	824	0.5	8	1799	0	8	1799	0						
9	1174	26.3	9	1724	0	9	1499	0						
10	1324	0.3	10	1499	0	10	1724	0						
11	1449	0.6	11	1924	0	11	1499	0						
12	1499	11.1	12	1424	0	12	1924	0						
13	1674	0.4	13	1499	0	13	1424	0						
14	1874	0	14	auger refusal		14	auger refusal							
15	auger refusal													

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

Diversified Environmental Services

[illegible]

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

Diversified Environmental Services

[illegible]

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

Diversified Environmental Services

Company Name:	CIMAREX
Location Name:	RED HILLS SWD 1

SP Date: 3/30/2015
Rel Date:

[illegible]

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

Diversified Environmental Services

[illegible]

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

Diversified Environmental Services

[illegible]

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

Diversified Environmental Services

[illegible]

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

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	Red Hills SWD #1	Facility Type	SWD

Surface Owner	Mineral Owner	Lease No.
---------------	---------------	-----------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	28	25S	33E	660	S	660	W	Lea

Latitude 32.09614 Longitude -103.58256

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	140 bbls	Volume Recovered	120 bbls
Source of Release	Tri-plex pump	Date and Hour of Occurrence	1-8-15	Date and Hour of Discovery	1-8-15 12 p.m.
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	1-9-15 2:06 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.*

A swedge failed on the discharge side of the tri-plex pump. All fluids were contained in an unlined earthen berm. Approximately 140 bbls were released and 120 bbls were recovered.

Describe Area Affected and Cleanup Action Taken.*

119'x68' bermed containment. Diversified Environmental excavated the spill area to 2' bgs per the BLM and NMOCD. Fresh caliche was brought in for backfill.

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: 1-14-15 Phone: 432-853-7059		

* Attach Additional Sheets If Necessary

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	Red Hills SWD #1	Facility Type	SWD

Surface Owner	Mineral Owner	Lease No.
---------------	---------------	-----------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	28	25S	33E	660	S	660	W	Lea

Latitude 32.09614 Longitude -103.58256

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	330 bbls	Volume Recovered	270 bbls
Source of Release	Tri-plex pump	Date and Hour of Occurrence	3-29-15	Date and Hour of Discovery	3-29-15 12 p.m.
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 11 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.*

The fiberglass line coming off of the fiberglass water storage tank snapped off at the connection.

Describe Area Affected and Cleanup Action Taken.*

The spill occurred during a remediation which was already taking place. It was added to the original RP-3506. All contaminants were contained inside the berm. Diversified Environmental excavated the entire spill area to 2' bgs and brought in fresh caliche for backfill, as the site 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>	OIL CONSERVATION DIVISION		
Printed Name: Christine Alderman	Approved by District Supervisor:		
Title: EHS Supervisor	Approval Date:	Expiration Date:	
E-mail Address: calderman@cimarex.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 3-30-2015	Phone: 432-853-7059		

* Attach Additional Sheets If Necessary