

RECEIVED

By OCD; Dr. Oberding at 12:07 pm, Apr 23, 2015



Mallon 33 Fed #4

REMEDIATION WORK PLAN

Release Date: 4/02/2015

UL/H Sec 33, T19 south, R34 east, Lea county NM

API # 30-025-34114

1RP-3592

APPROVED Conditionally

By OCD; Dr. Oberding at 12:11 pm, Apr 23, 2015

Stipulations of approval:

- 1) Obtain concurrence from the BLM

April 13, 2015

Prepared by:

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

Tomas Oberding, Phd
1625 N. French Dr.
Hobbs, NM 88240

RE: Cimarex, Mallon 33 Fed #4 – Remediation Work Plan
UL/H, Section 33, T19S, R34E
API No. 30-025-34114

Dr. Oberding,

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

The site is located north of highway 62/180 NM, in Lea County. The leak site resulted from a hole developing in the bottom of a steel oil tank. The impacted area is inside an unlined firewall of the battery and a small area south into the pasture. Approx. 255 bbls of produced water was released, and 25 bbls recovered. A C-141 was submitted to the NMOCD on April 6th, 2015. The C-141 is attached.

Site Assessment and Delineation

On April 8th, 2015 DFSI personnel delineated 4 sample points of the leak area. Each sample was tested for chlorides levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). The results are attached. On April 17th, 2015 DFSI personnel drilled the affected area in one auger hole to fully delineate the site. The results are attached.

DFSI has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer the average depth to groundwater for this area is 83 + foot below ground surface. Therefore, no eminent danger of groundwater impact or threat to life is anticipated.

Conclusion

After careful review DFSI on behalf of Cimarex would like to propose the following:

Remove 1'to 2' bgs of the contaminated soil inside the bermed facility. Haul all contaminated material to an approved NM state disposal. New caliche will be used to backfill the excavation in the battery. In the pasture 2' BGS will be removed. Backfill will be done by pushing the surrounding sand into the excavation and re contouring. We will re seed using a BLM approved seed mix.

Because there is no eminent danger of groundwater impact or threat to life is anticipated DFSI, on behalf of Cimarex proposes further delineation or removal of soil will occur at the time the facility is abandoned.

Following the approval of the above plan, DFSI will submit all proper closure documentation to the NMOCD and BLM in accordance to the State and Federal Guidelines set forth.

Please feel free to contact me with any questions concerning this remediation plan request.

Sincerely,



Michael Burton
Environmental Operations Director
Diversified Field Service, Inc.
206 West Snyder
Hobbs, NM 88240
Office: (575)964-8394
Mobile: (575)390-5454
Fax: (575)964-8396
Email: Mburton@diversifiedfsi.com

cc Sol Hughes

Attachments: Initial Form C-141
Site/Sample Map
Sample Data
Photo Page

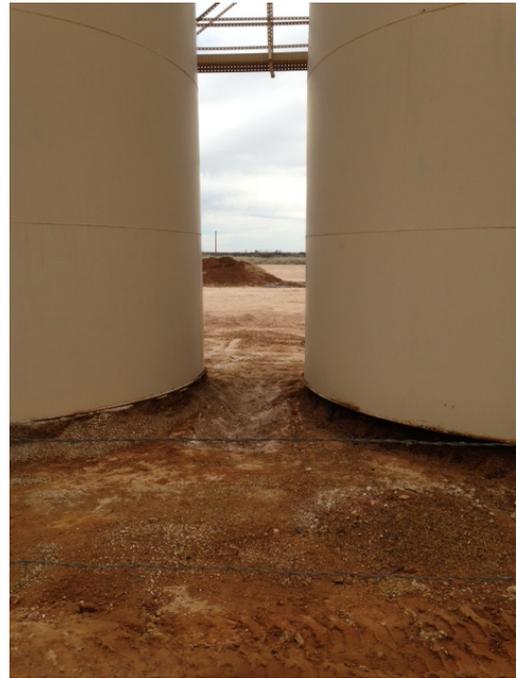


Mallon 33 Fed #4

PHOTO PAGE

4/6/2015







Site Diagram

Cimarex, Mallon 33 Fed #4
UL/H, Sec. 33 T19S R34E
Lea County, NM
Drafted By: Lance Crenshaw, 4-6-15

0 0.0035 0.007 0.014 Miles

Legend

Misc_points

Types

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

Pipeline

Type

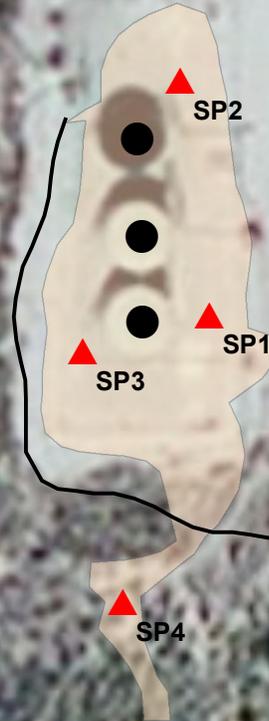
-  Above Ground Line
-  Buried Line

Spill

-  <all other values>

Spill_Media

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



Spill Area:
4,628 sq. ft.

Lance Crenshaw
 GIS Technician

Soil Remediation and Ground Water Remediation
 Environmental Assessments
 Regulatory Compliance



Environmental **DFSI** Services

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

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

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

Diversified Environmental Services

Company Name: CIMAREX
 Location Name: MALLON 33 FED 4

SP Date: 4/8/2015
 Rel Date: _____

SP1	CHL	PID	SP2	CHL	PID	SP3	CHL	PID	SP4	CHL	PID	SP5	CHL	TPH
SURF	1399	565.3	SURF	1899	1864	SURF	2124	3068	SURF	1099	1234			
1'	399	125.4	1'	249	589.3	1'	524	742.3	1'	499	283.4			
2'	374	92.4	2'	374	483.2	2'	274	763.4	2'	249	52.6			
3'	324	233.6	3'	274	649.2	3'	374	989.1	3'	299	12.4			
4'	499	540.3	4'	374	782.1	4'	324	485.6	4'	349	4.1			
5'	374	1938	5'	374	650.1	5'	274	384.3						
6'	374	655.4	6'	499	1232	6'	449	741.2						
7'	624	784.4	7'	449	233.4	7'	249	1223						
8'	399	578.3	8'	274	101.2	8'	AUGER REFUSAL							
9'	399	484.6	9'	249	486.1									
10'	499	672.3	10'	324	392.2									
11'	274	684.1	11'	324	789.4									
12'	449	1284	12'	274	649.8									
13'	474	1011	13'	474	732.7									
14'	624	899.2	14'	349	484.3									
15'	249	652.3	15'	274	280.1									
16'	424	486.1	16'	274	562.3									

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples



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
CP 00683			LE	3	3	4	25	19S	34E	639530	3610685*	120	28	92
CP 00806 POD1	R		LE	4	4	04		19S	34E	635109	3617151*	50		
CP 00811			LE	4	4	09		19S	34E	635132	3615542*	50		
CP 00875			LE	3	4	3	05	19S	34E	632592	3617013*	200		
L 04059	L	LE	LE	4	1	12		19S	34E	639146	3616412*	125	60	65
L 04723	L	LE	LE	1	1	1	11	19S	34E	637026	3616880*	145	123	22
L 06731	L	LE	LE	3	2	2	12	19S	34E	639844	3616727*	120	80	40
L 07213	L	LE	LE	4	1	4	31	19S	34E	631700	3609351*	160	110	50
L 10347	L	LE	LE	2	3	03		19S	34E	635909	3617566*	130		
L 10380	L	LE	LE	4	4	4	02	19S	34E	638428	3617102*	153	100	53
L 12103 POD1	L	LE	LE	4	3	4	02	19S	34E	637920	3617167	120		

Average Depth to Water: **83 feet**
 Minimum Depth: **28 feet**
 Maximum Depth: **123 feet**

Record Count: 11

Basin/County Search:

County: Lea

PLSS Search:

Township: 19S **Range:** 34E

*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.

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 Mallon 33 Fed 4	Facility Type production

Surface Owner	Mineral Owner	API No. 30-025-34114
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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
H	33	19S	34E	1980	N	560	E	Lea

Latitude 32.61858 Longitude -103.55856

NATURE OF RELEASE

Type of Release oil	Volume of Release 255 bbls	Volume Recovered 25 bbls
Source of Release Steel tank	Date and Hour of Occurrence 4/2/2015 9:00am	Date and Hour of Discovery 4/2/2015 9:00am
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 4/2/2015 1:50pm	
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 corrosion hole developed in the bottom of the steel oil tank.

Describe Area Affected and Cleanup Action Taken.*
The fluids were mainly contained inside an unlined berm. A small amount got out onto the location pad. The area will be delineated and a work plan developed for clean up.

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: 4/6/2015	Phone: 432-853-7059	

* Attach Additional Sheets If Necessary