



Wersell Fed #1

REMEDIATION WORK PLAN

Release Date: 3/9/2015

UL/C Sec 4, T22 south, R27 east, Eddy county NM

API # 30-015-20915

July 14th, 2015

Prepared by:

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

Mike Bratcher
Environmental Specialist
NM Oil Conservation District-Division 2
Artesia, NM 88210

RE: Cimarex, Wersell Fed #1 – Remediation Work Plan
UL/C, Section 4, T22S, R27E
API No. 30-015-20915

Mr. Bratcher,

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

The site is located east of Carlsbad, NM, in Eddy County. The first release, 5/28/2015, resulted from corrosion on a 45 pipe fitting. Approximately 20 bbls of produced water was released and 0 bbls recovered. A C-141 was submitted to the NMOCD on June 2, 2015. The second release, 3/9/2015, resulted from a tank running over. The impacted area is inside the battery unlined firewall. Approximately 40 bbls of oil was released, and 30 bbls recovered. A C-141 was submitted to the NMOCD on March 17, 2015. The C-141's are attached.

Site Assessment and Delineation

On June 24, 2015 DFSI personnel delineated three 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). On June 24, 2015 DFSI personnel used a mechanical auger drill to delineate the spill area in one bore hole. 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 24 foot below ground surface.

Conclusion

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

Remove 3' bgs of the contaminated soil inside of the facility. Haul all contaminated material to an approved NM state disposal. Then backfill with clean caliche.

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 Shelly Tucker
Heather Patterson

Attachments: Initial Form C-141's
Site/Sample Map
Sample Data
Photo Page
Lab data

Site Diagram

**Cimarex, Wersell Fed #1
UL/C, Sec. 04 T22S R27E
Eddy County, NM
Drafted By: Lance Crenshaw, 6-12-15**

0 0.003 0.006 0.012 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:
2412 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, swisstopo, and the GIS User Community



Wersell Fed #1

REMEDIATION WORK PLAN

6/4/2015







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

July 10, 2015

CHISTINE ALDERMAN

CIMAREX

2020 W. BENDER

HOBBS, NM 88240

RE: WENSELL FED COM # 1-EDDY

Enclosed are the results of analyses for samples received by the laboratory on 07/02/15 16:31.

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,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 CIMAREX
 CHISTINE ALDERMAN
 2020 W. BENDER
 HOBBS NM, 88240
 Fax To: ?

Received:	07/02/2015	Sampling Date:	07/02/2015
Reported:	07/10/2015	Sampling Type:	Soil
Project Name:	WENSELL FED COM # 1-EDDY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB1 @ 3' (H501707-01)

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	07/09/2015	ND	2.31	116	2.00	0.819	
Toluene*	<0.050	0.050	07/09/2015	ND	2.02	101	2.00	1.57	
Ethylbenzene*	<0.050	0.050	07/09/2015	ND	1.96	97.9	2.00	0.0738	
Total Xylenes*	0.363	0.150	07/09/2015	ND	5.79	96.6	6.00	0.329	
Total BTEX	0.364	0.300	07/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 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	512	16.0	07/08/2015	ND	400	100	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	07/07/2015	ND	192	96.0	200	1.65	
DRO >C10-C28	56.0	10.0	07/07/2015	ND	183	91.3	200	1.55	

Surrogate: 1-Chlorooctane 92.0 % 47.2-157
Surrogate: 1-Chlorooctadecane 101 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For 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



Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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 00514	C	ED					06	22S	27E	572498	3587396*	50		
C 00589	C	ED		2	4	4	04	22S	27E	576412	3586974*			
C 00717	C	ED		3	3	1	05	22S	27E	573369	3587548*	60	32	28
C 00783	C	ED		3	1	3	05	22S	27E	573372	3587136*	135	73	62
C 01291	C	ED		4	2	1	06	22S	27E	572354	3587914*	50		
C 01790	C	ED			1	1	06	22S	27E	571887	3588005*	59	17	42
C 02593	C	ED		3	4	3	06	22S	27E	572164	3586697*	25	15	10
C 03007	C	ED		1	2	3	06	22S	27E	572161	3587304*	39	11	28
C 03550 POD1	C	ED		2	3	4	06	22S	27E	572728	3586988	25		
C 03651 POD1	CUB	ED		4	3	4	06	22S	27E	572781	3586705	30		
C 03651 POD10	CUB	ED		4	3	4	06	22S	27E	572729	3586650	27		
C 03651 POD11	CUB	ED		4	3	4	06	22S	27E	572731	3586752	25		
C 03651 POD12	CUB	ED		4	3	4	06	22S	27E	572855	3586667	33		
C 03651 POD13	CUB	ED		4	3	4	06	22S	27E	572840	3586636	30		
C 03651 POD14	CUB	ED		4	3	4	06	22S	27E	572768	3586633	30		
C 03651 POD2	CUB	ED		4	3	4	06	22S	27E	572772	3586694	30		
C 03651 POD3	CUB	ED		4	3	4	06	22S	27E	572783	3586690	30		
C 03651 POD4	CUB	ED		4	3	4	06	22S	27E	572772	3586719	30		
C 03651 POD5	CUB	ED		4	3	4	06	22S	27E	572815	3586694	31	17	14
C 03651 POD6	CUB	ED		4	3	4	06	22S	27E	572748	3586682	28	17	11
C 03651 POD7	CUB	ED		4	3	4	06	22S	27E	572748	3586678	31	17	14
C 03651 POD8	CUB	ED		4	3	4	06	22S	27E	572744	3586709	30		
C 03651 POD9	CUB	ED		4	3	4	06	22S	27E	572860	3586602	26		

*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.

Average Depth to Water: **24 feet**

Minimum Depth: **11 feet**

Maximum Depth: **73 feet**

Record Count: 23

Basin/County Search:

County: Eddy

PLSS Search:

Section(s): 4, 5, 6

Township: 22S

Range: 27E

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 Wersell Fed #1	Facility Type production

Surface Owner	Mineral Owner	API No. 30-015-20915
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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
C	04	22S	27E	810	N	1980	W	Eddy

Latitude 32.42693 Longitude -104.19662

NATURE OF RELEASE

Type of Release oil	Volume of Release 40 bbls	Volume Recovered 30 bbls
Source of Release tank	Date and Hour of Occurrence 3/9/2015	Date and Hour of Discovery 3/9/2015
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher / Sol Hughes	
By Whom? Christine Alderman	Date and Hour 3/10/2015 9:00am	
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 turbine meter on the water dump valve on the heater treater became plugged with solids which sent all fluids over to the tanks. As a result the tanks ran over into unlined containment.

Describe Area Affected and Cleanup Action Taken.*

All fluids stayed within firewall, and most of oily soil has been removed. Will contact Consultant to delineate 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 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: 3/17/2015	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
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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

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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 Gloria Garza
Address 600 N Marienfeld Ste 600 Midland TX	Telephone No. 432-234-3204
Facility Name: Wersell Federal I	Facility Type: Tank Battery

Surface Owner: Federal	Mineral Owner	API No. 30-015-20915
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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
C	04	22S	27E	810	FNL	1980	FWL	Eddy

Latitude:32.42693 Longitude:-104.19662

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release: 20 BBLs	Volume Recovered: 0 BBLs
Source of Release: Flow line	Date and Hour of Occurrence: 5/28/2015	Date and Hour of Discovery 5/28/2015
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jeff Robertson BLM & Mike Bratcher OCD	
By Whom? Gloria Garza	Date and Hour: 6/1/2015 4:20 PM CST	
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.*

Corrosion on a 45 pipe fitting attaching two flow lines. Moving forward we will fuse the two flow lines together to eliminate fitting washing out.

Describe Area Affected and Cleanup Action Taken.*

Talon 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>	OIL CONSERVATION DIVISION	
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: 6/2/2015	Phone: 432-234-3204	

* Attach Additional Sheets If Necessary