



# Wersell Fed #1

## REMEDIATION WORK PLAN

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Release Date: 3/9/2015

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

API # 30-015-20915

July 14<sup>th</sup>, 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

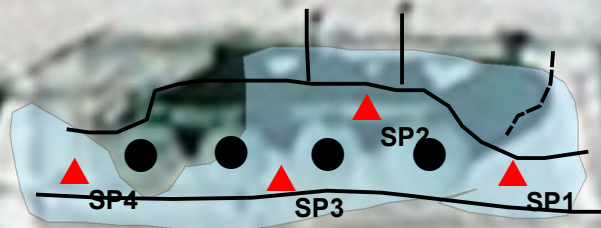
### Spill

-  <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

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6/4/2015







## 6/24/2015

SP Date: 6/24/2015  
Rel Date:

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples



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

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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](http://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,

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  
Reported: 07/10/2015  
Project Name: WENSELL FED COM # 1-EDDY  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/02/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

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

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	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	
<b>Total Xylenes*</b>	<b>0.363</b>	0.150	07/09/2015	ND	5.79	96.6	6.00	0.329	
<b>Total BTX</b>	<b>0.364</b>	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
<b>Chloride</b>	<b>512</b>	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	
<b>DRO &gt;C10-C28</b>	<b>56.0</b>	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

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.



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

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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.



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



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

[illegible]



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

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**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 Cimax 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

#### 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>		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Christine Alderman		Approved by Environmental Specialist:	
Title: ESH Supervisor		Approval Date:	Expiration Date:
E-mail Address: calderman@cimaxex.com		Conditions of Approval:	
Date: 3/17/2015 Phone: 432-853-7059		Attached <input type="checkbox"/>	

\* 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

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 Cimaxex 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 C	Section 04	Township 22S	Range 27E	Feet from the 810	North/South Line FNL	Feet from the 1980	East/West Line FWL	County Eddy
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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.\*

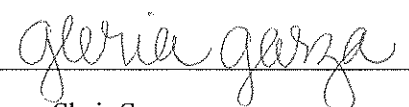
Describe Cause of Problem and Remedial Action Taken.\*

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: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Gloria Garza	Approved by Environmental Specialist:		
Title: ESH Tech	Approval Date:	Expiration Date:	
E-mail Address: ggarza@cimaxex.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 6/2/2015	Phone: 432-234-3204		

\* Attach Additional Sheets If Necessary