



# Wigeon 23 Fed Com #2

## CLOSURE REPORT

---

Release Date: 4/07/2015

UL/H Sec 23, T25 south, R26 east, Eddy County, NM

API # 30-015-33684

July 9, 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 C-141

Appendix II – Site Photographs

Appendix III – Site Diagram/Seed Report

Appendix IV – Laboratory Analyses

Appendix V – Final C-141

# Wigeon 23 Fed Com 2

## 1 INTRODUCTION

---

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

The site is located east of Whites City, NM, in Eddy County. The leak site resulted from a valve being open and a check valve failure. The impacted area is on the back side of the battery, west into the pasture. Approximately 15 bbls of produced water was released, and 1 bbl recovered. A C-141 was submitted to the NMOCD on April 17, 2015. The C-141 is attached.

## 2 SITE ACTIVITIES

---

On April 21, 2015 DFSI personnel delineated 3 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). Auger refusal was attained at 4' BGS on all three points. The results are attached. On May 14<sup>th</sup>, 2015 DFSI personnel drilled the affected area in one auger hole to fully delineate the site. The results are attached.

On July 6, 2015, DFSI personnel returned to the site, per the BLM to obtain three soil samples at 4'bgs with a backhoe. The lab data for those samples are also attached. After obtaining the samples, DFSI personnel excavated the entire spill area to 4'bgs. An email from the BLM is also attached which stated for DFSI to proceed with backfill of the excavated area.

On July 7, 2015, DFSI personnel backfilled the location with surrounding terrain. The area was also blended, contoured, and seeded with 5.48 pounds of BLM #4 seed.

All contaminated soil was hauled to an approved NM state disposal. 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 Wigeon 23 Fed Com 2	Facility Type Production

Surface Owner	Mineral Owner	API No. 30-015-33684
---------------	---------------	----------------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	23	25S	26E	1350	N	1300	E	Eddy

Latitude 32.1189 Longitude -104.2591

**NATURE OF RELEASE**

Type of Release produced water	Volume of Release 15 bbls	Volume Recovered 1 bbl
Source of Release flowline	Date and Hour of Occurrence 04/07/2015	Date and Hour of Discovery 04/07/2015
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/Sol Hughes	
By Whom? Christine Alderman	Date and Hour 4/8/2015 9:53 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 4" poly line at the edge of location is connected to an 8" trunk line. The valve somehow got opened and check valve failed. There was evidence of the line being run over by a truck which may have damaged the check valve.

Describe Area Affected and Cleanup Action Taken.\*

Affected an area on the back side of the battery on location. I will have consultant asses, 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>	<b>OIL CONSERVATION DIVISION</b>	
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: 4/17/2015	Phone: 432-853-7059	

\* Attach Additional Sheets If Necessary

# Appendix II

## SITE PHOTOS

---



# Wigeon 23 Fed Com #2

## PHOTO PAGE

---



Spill area behind battery



Spill area leading to pasture



Excavating spill area behind battery in pasture



Excavating spill area behind battery in pasture



Reseeding backfilled area in pasture



Reseeding backfilled area in pasture



Backfilled and reseeded area in pasture behind battery

# Appendix III

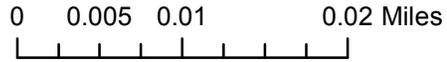
## SITE MAP

---

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

# Site Diagram

**Cimarex, Wigeon 23 Fed Com 2  
UL/H, Sec. 23 T25S R26E  
Eddy County, NM  
Drafted By: Lance Crenshaw, 4-21-15**



## 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:  
2,134 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, US swisstopo, and the GIS User Community

DIVERSIFIED FIELD SERVICES, INC.

Project: Wigton 23 Fed can 2

Date Started: 7/8/15

Seed and lbs used: 5.48 pds BMT 4

Date Completed: 7/8/15

Supervisor: 

**Curtis and Curtis, Inc.**  
 4500 North Prince  
 Clovis, NM 88130  
 Phone: (575) 762-4759  
 www.curtisseed.com

Diversified Construction  
 0.25 Acre BLM #4, Broadest Rate  
 1 - 0.25 Acre Bag @ 5.48 Bulk Pounds Each  
 Job - Chimmarax Widgon 23"

Lot# M-13135-2

Item	Origin	Purity	Genm	Dormant	Total Germination	Test Date	Total PLS Pounds	
Alkali Sacaton	New Mexico	97.50%	25.00%	71.00%	96.00%	02/15	0.50	
VNS								
Four Wing Saltbush	New Mexico	82.88%	55.00%	0.00%	55.00%	12/14	2.50	
VNS								
Other Crop:		0.02%						
Weed Seed:		0.00%						
Inert Matter:		7.60%						
There Are 1 Bags For This Mix This Bag Weighs 5.48 Bulk Pounds Use This Bag For 0.25 Acres							Total Bulk Pounds:	5

# Appendix IV

## LABORATORY ANALYSES

---

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



May 20, 2015

CHRISTINE ALDERMAN  
CIMAREX ENERGY CO.-MIDLAND  
600 N. MARIENFELD ST, SUITE 600  
MIDLAND, TX 79701

RE: WIGEON 23 FED COM #2

Enclosed are the results of analyses for samples received by the laboratory on 05/14/15 16:20.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

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:	05/14/2015	Sampling Date:	05/14/2015
Reported:	05/20/2015	Sampling Type:	Soil
Project Name:	WIGEON 23 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: SB 1 @ 10' (H501247-01)**

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	05/20/2015	ND	1.77	88.3	2.00	0.512	
Toluene*	<0.050	0.050	05/20/2015	ND	1.89	94.5	2.00	0.771	
Ethylbenzene*	<0.050	0.050	05/20/2015	ND	1.79	89.7	2.00	1.34	
Total Xylenes*	<0.150	0.150	05/20/2015	ND	5.33	88.8	6.00	0.885	
Total BTEX	<0.300	0.300	05/20/2015	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 110 % 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>128</b>	16.0	05/15/2015	ND	400	100	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	05/18/2015	ND	173	86.6	200	1.90	
DRO >C10-C28	<10.0	10.0	05/18/2015	ND	198	99.0	200	1.16	

*Surrogate: 1-Chlorooctane 102 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 115 % 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.



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



---

Celey D. Keene, Lab Director/Quality Manager





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

---

July 07, 2015

CHRISTINE ALDERMAN  
CIMAREX ENERGY CO.-MIDLAND  
600 N. MARIENFELD ST, SUITE 600  
MIDLAND, TX 79701

RE: WIGEON 23 FED COM #2

Enclosed are the results of analyses for samples received by the laboratory on 07/06/15 14:13.

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,

A handwritten signature in black ink that reads "Hope S. Moreno".

Hope S. Moreno For 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:	07/06/2015	Sampling Date:	07/06/2015
Reported:	07/07/2015	Sampling Type:	Soil
Project Name:	WIGEON 23 FED COM #2	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: BS 1 @ 4' (H501711-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.614</b>	0.050	07/06/2015	ND	2.16	108	2.00	0.912	
<b>Toluene*</b>	<b>7.90</b>	0.050	07/06/2015	ND	1.95	97.3	2.00	0.964	
<b>Ethylbenzene*</b>	<b>1.92</b>	0.050	07/06/2015	ND	1.86	93.1	2.00	0.401	
<b>Total Xylenes*</b>	<b>27.3</b>	0.150	07/06/2015	ND	5.53	92.2	6.00	0.760	
<b>Total BTEX</b>	<b>37.7</b>	0.300	07/06/2015	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 122 % 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>5120</b>	16.0	07/07/2015	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>251</b>	10.0	07/07/2015	ND	197	98.6	200	3.89	
<b>DRO &gt;C10-C28</b>	<b>861</b>	10.0	07/07/2015	ND	206	103	200	3.95	

*Surrogate: 1-Chlorooctane 104 % 47.2-157*
*Surrogate: 1-Chlorooctadecane 95.4 % 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.



Hope S. Moreno For 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:	07/06/2015	Sampling Date:	07/06/2015
Reported:	07/07/2015	Sampling Type:	Soil
Project Name:	WIGEON 23 FED COM #2	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: BS 2 @ 4' (H501711-02)**

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	07/06/2015	ND	2.16	108	2.00	0.912		
Toluene*	<0.050	0.050	07/06/2015	ND	1.95	97.3	2.00	0.964		
Ethylbenzene*	<0.050	0.050	07/06/2015	ND	1.86	93.1	2.00	0.401		
Total Xylenes*	<0.150	0.150	07/06/2015	ND	5.53	92.2	6.00	0.760		
Total BTEX	<0.300	0.300	07/06/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4720	16.0	07/07/2015	ND	416	104	400	7.41		

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	197	98.6	200	3.89		
DRO >C10-C28	<10.0	10.0	07/07/2015	ND	206	103	200	3.95		

Surrogate: 1-Chlorooctane 97.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.2 % 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.



Hope S. Moreno For 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:	07/06/2015	Sampling Date:	07/06/2015
Reported:	07/07/2015	Sampling Type:	Soil
Project Name:	WIGEON 23 FED COM #2	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: BS 3 @ 4' (H501711-03)**

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	07/06/2015	ND	2.16	108	2.00	0.912		
Toluene*	<0.050	0.050	07/06/2015	ND	1.95	97.3	2.00	0.964		
Ethylbenzene*	<0.050	0.050	07/06/2015	ND	1.86	93.1	2.00	0.401		
Total Xylenes*	<0.150	0.150	07/06/2015	ND	5.53	92.2	6.00	0.760		
Total BTEX	<0.300	0.300	07/06/2015	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>2880</b>	16.0	07/07/2015	ND	416	104	400	7.41		

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	197	98.6	200	3.89		
DRO >C10-C28	<10.0	10.0	07/07/2015	ND	206	103	200	3.95		

Surrogate: 1-Chlorooctane 85.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 85.4 % 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.



Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

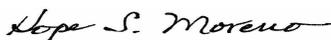
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

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.



---

Hope S. Moreno 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

### BILL TO

### ANALYSIS REQUEST

Company Name: **Cimex**  
 Project Manager: **Christine Alderman**  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Project Location: **Wagon Field com WA#2**  
 Sampler Name: **MA** **Eddy, CO**

P.O. #: \_\_\_\_\_  
 Company: **Cimex**  
 Attn: **Christine Alderman**  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CE	TNA	PRES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER					
H5D111	BS1041		1		X					7/6/15	11:30	X	X	X
	BS12041		1		X					7/6/15	11:45	X	X	X
	BS3041		1		X					7/6/15	12:00	X	X	X

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 the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: \_\_\_\_\_ Date: **7/6/15** Received By: **Michael Gomez**  
 Time: \_\_\_\_\_ Date: **7/6/15** Received By: **Judy Brown**  
 Time: **2:13**

Delivered By: (Circle One) **UPS**  
 Sampler - UPS - Bus - Other: **7bc**  
 Sample Condition:  Yes  No  
 Cool Contact:  Yes  No  
 CHECKED BY: **Judy Brown**  
 (Initials)  
 E-mail Results To: **Rush**  
 Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_  
 REMARKS: **Upon arrival at site, samples were taken and analyzed. Results are as follows: [mburton@diamondfields.com](mailto:mburton@diamondfields.com) / [lcwashaw@diamondfields.com](mailto:lcwashaw@diamondfields.com)**

## Lance Crenshaw

---

**From:** Michael Burton  
**Sent:** Wednesday, July 08, 2015 6:40 AM  
**To:** Michael Alves; Lance Crenshaw; Michael Patterson; Christine Alderman  
**Subject:** Fwd: WIGEON 23 FED COM #2 request backfill

Sent from my iPhone

Begin forwarded message:

**From:** "Robertson, Jeffery" <[jlrobertson@blm.gov](mailto:jlrobertson@blm.gov)>  
**Date:** July 8, 2015 at 6:38:22 AM MDT  
**To:** Michael Burton <[mburton@diversifiedfsi.com](mailto:mburton@diversifiedfsi.com)>  
**Subject:** Re: FW: WIGEON 23 FED COM #2 request backfill

Your good to go to back fill this location.

### Jeffery L. Robertson

BLM-CFO

Natural Resource Specialist

Office: 575-234-2230

Cell: 575-706-1920

[jlrobertson@blm.gov](mailto:jlrobertson@blm.gov)

On Tue, Jul 7, 2015 at 11:47 AM, Michael Burton <[mburton@diversifiedfsi.com](mailto:mburton@diversifiedfsi.com)> wrote:

Jeff,

We have a backhoe on location waiting backfill approval. Please review the 4' bgs samples and let me know. Thanks

**Mike Burton**

**DFSI**

**Environmental Operations Director**

**Customer Relations**

575-390-5454 cell

The information contained in this e-mail message is intended only for the personal and confidential use of the recipient(s) named above. If the reader of this message is not the intended recipient or an agent responsible for delivering it to the intended recipient, you are hereby notified that you have received

this document in error and that any review, dissemination, distribution, or copying of this message is strictly prohibited. If you have received this communication in error, please notify us immediately by e-mail, and delete the original message.

---

**From:** Celey Keene [mailto:[celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)]  
**Sent:** Tuesday, July 07, 2015 11:41 AM  
**To:** Michael Burton; Lance Crenshaw  
**Subject:** WIGEON 23 FED COM #2

Thank you!

**Celey Keene**

**Lab Director**

**Cardinal Laboratories**

**101 East Marland**

**Hobbs, NM 88240**

**T: (575) 393-2326**

**F: (575) 393-2476**

**e-mail:** [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)

*The information contained in this message is confidential and is only intended for the use of the individual/firm named above. If the reader of this message is not the intended recipient or the employee/agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by e-mail or telephone in order to return the message. We would like your feedback about the services you have received from Cardinal Laboratories. Click on the following link to complete a brief survey, <https://www.surveymonkey.com/s/Z7JXYQQ>. Thank you.*

# 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	Wigeon 23 Fed Com 2	Facility Type	Production
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
H	23	25S	26E	1350	N	1300	E	Eddy

Latitude 32.1189 Longitude -104.2591

**NATURE OF RELEASE**

Type of Release	Produced Water	Volume of Release	15 bbls	Volume Recovered	1 bbl
Source of Release	Flowline	Date and Hour of Occurrence	4-7-15	Date and Hour of Discovery	4-7-15
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher/Sol Hughes		
By Whom?	Christine Alderman	Date and Hour	4-8-15 9:53 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.\*

A 4" poli line at the edge of location is connected to an 8" trunk line. The valve somehow got opened and the check valve failed. There was evidence of the line being run over by a truck which may have damaged the check valve. DFSI sampled the soil in the area and obtained a clean sample at 10' bgs.

Describe Area Affected and Cleanup Action Taken.\*

The entire spill area was excavated to 4'bgs. DFSI personnel used the surrounding terrain to backfill and contour the area. More than five pounds of BLM #4 mix seed was then applied to area, and the site was restored 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.

**OIL CONSERVATION DIVISION**

Signature:	Approved by District Supervisor:		
Printed Name: Christine Alderman	Approval Date:	Expiration Date:	
Title: ESH Supervisor	Conditions of Approval:		Attached <input type="checkbox"/>
E-mail Address: calderman@cimarex.com			
Date: 7-9-2015	Phone: 432-853-7059		

\* Attach Additional Sheets If Necessary