



Gadwall 18 Fed Com #2H

Second release

REMEDIATION WORK PLAN

Release Date: 6/21/2015

UL/C Sec 18, T25 south, R27 east, Eddy county NM

API # 30-015-39141

July 20th, 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, Gadwall 18 Fed Com #2H second release – Remediation Work Plan
UL/C, Section 18, T25S, R27E
API No. 30-015-39141

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 Whites City, NM, in Eddy County. The leak site resulted from a poly flow line failure. The impacted area is on the north side of the location running west then turning south behind the location in the pasture. Approximately 15 bbls of produced water was released, and 0 bbls recovered. A C-141 was submitted to the NMOCD on June 26, 2015. The C-141 is attached.

Site Assessment and Delineation

On June 7, 2015 DFSI personnel delineated 15 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 sample points #5 and #9. The results are attached. The clean field samples were taken to Cardinal Labs in Hobbs NM. 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 351 + foot below ground surface.

Conclusion

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

Remove 2' to 3' bgs of the contaminated soil in all areas. Haul all contaminated material to an approved NM state disposal. In the areas over and around a right of way we will backfill with clean soil. In the narrow areas we will use surrounding terrain for backfill. We will re seed using a BLM approved seed mix.

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,



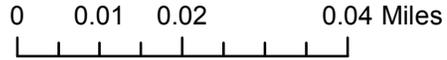
Michael Burton
Environmental Operations Director
Diversified Field Service, Inc.
206 West Snyder
Hobbs, NM 88240
Office: (575)964-8394
Mobile: (575)390-5454
Fax: (575)964-8396
Email: Mburton@diversifiedfsi.com

cc Shelly Tucker

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

Site Diagram

Cimarex, Gadwall 1st and 2nd release
Eddy County, NM
Drafted By: Lance Crenshaw, 6-25-15



Spill area, 1st release:
5,231 sq. ft.

Spill Area, 2nd release:
34,231 sq ft.

Legend

Misc_points

Types

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

Pipeline

Type

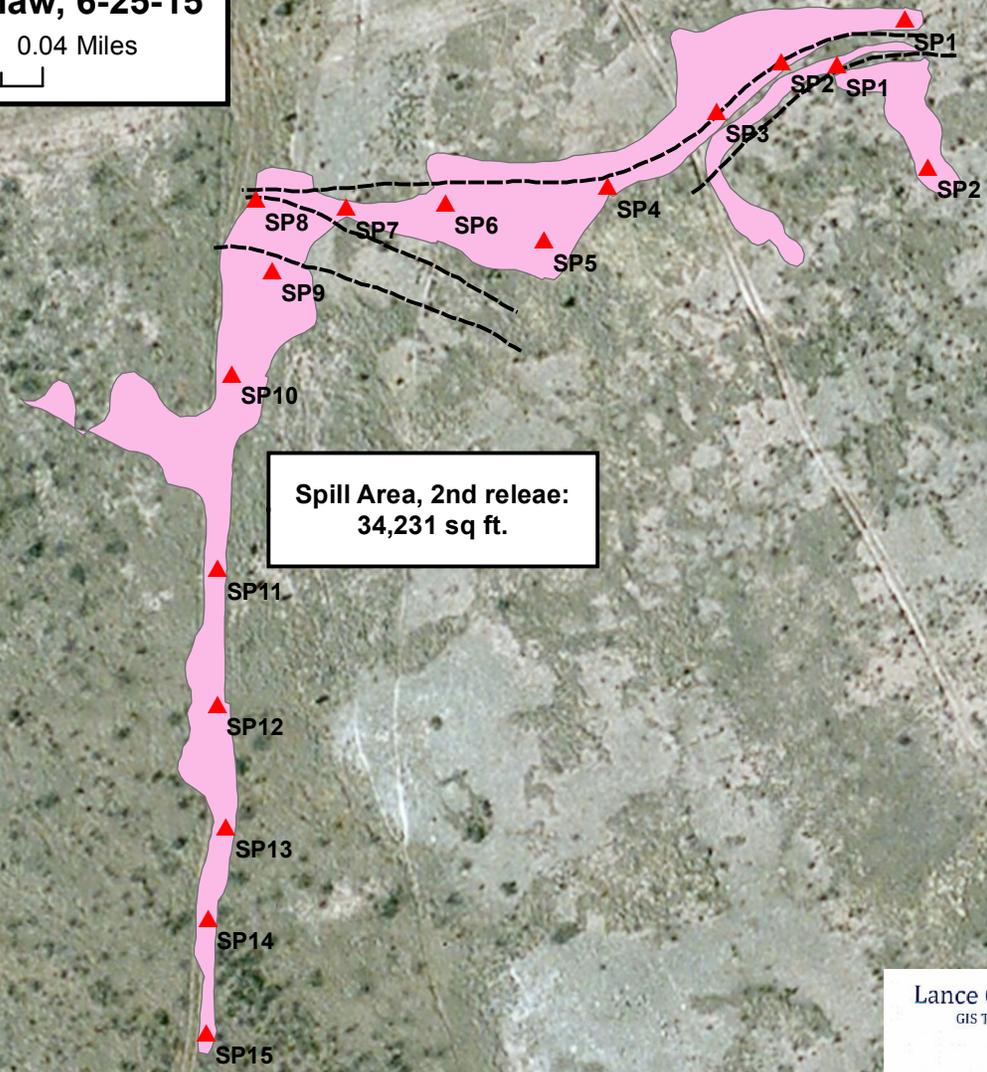
- Above Ground Line
- Buried Line

Spill

- <all other values>

Spill_Media

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



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-cube, swisstopo, and the GIS User Community



Gadwall 18 Fed Com #2H

Second release

PHOTO PAGE

6/24/2015



SE 150 S 180 SW 210 240
BRG: 197°S ALT: 3169.6ft



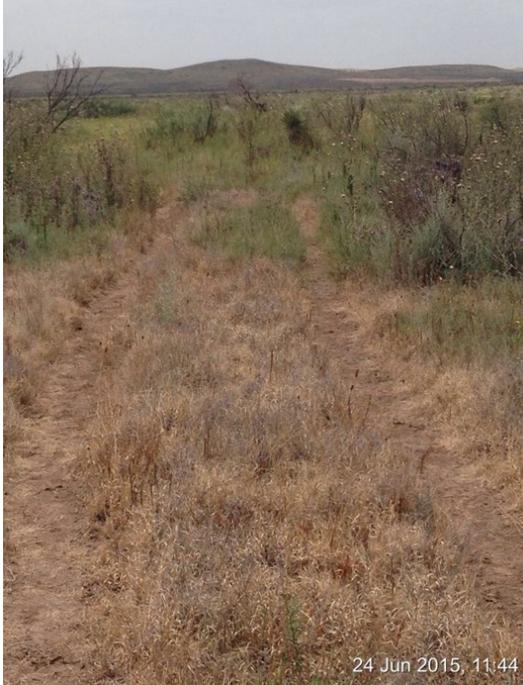
24 Jun 2015, 10:20

E 90 SE 120 S 150 180
BRG: 134°SE ALT: 3179.3ft



24 Jun 2015, 10:20

S 150 SW 180 W 210 240 270
BRG: 212°SW ALT: 3202.2ft



24 Jun 2015, 11:44

N 0 NE 30 E 60 90
BRG: 48°NE ALT: 3187.5ft



24 Jun 2015, 12:23



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 03261 POD1			ED	3	2	1	20	25S	27E	574007	3554006*	351		

Average Depth to Water: --
 Minimum Depth: --
 Maximum Depth: --

Record Count: 1

Basin/County Search:

County: Eddy

PLSS Search:

Section(s): 18, 19, 17, 20 **Township:** 25S **Range:** 27E

*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.



July 15, 2015

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

RE: GADWALL 2ND RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/08/15 8:45.

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 "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" and "K".

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:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 3' (H501734-01)

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	07/14/2015	ND	2.46	123	2.00	1.05	
Toluene*	<0.050	0.050	07/14/2015	ND	2.21	110	2.00	0.366	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.17	108	2.00	1.47	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.46	108	6.00	1.94	
Total BTEX	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	256	16.0	07/13/2015	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	07/10/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/10/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 80.8 % 47.2-157
Surrogate: 1-Chlorooctadecane 84.4 % 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.



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:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 3' (H501734-02)

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	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEX	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	07/13/2015	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	07/10/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/10/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 85.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.1 % 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

Analytical Results For:

 CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 3' (H501734-03)

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	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEX	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	07/13/2015	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	07/10/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/10/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 84.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.6 % 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

Analytical Results For:

 CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 3' (H501734-04)

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	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEX	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/13/2015	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	07/10/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/10/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 87.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.3 % 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

Analytical Results For:

 CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 3' (H501734-05)

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	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEX	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	07/13/2015	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	07/11/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/11/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 86.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.3 % 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

Analytical Results For:

 CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 4' (H501734-06)

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	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEX	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/14/2015	ND	432	108	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	07/11/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/11/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 80.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 84.9 % 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

Analytical Results For:

 CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ 3' (H501734-07)

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	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEX	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/14/2015	ND	432	108	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	07/11/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/11/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 84.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 89.8 % 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

Analytical Results For:

 CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 10 @ 4' (H501734-08)

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	07/14/2015	ND	2.11	106	2.00	1.29		
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21		
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99		
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07		
Total BTEX	<0.300	0.300	07/14/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 136 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	07/14/2015	ND	432	108	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	07/11/2015	ND	199	99.4	200	5.17		
DRO >C10-C28	<10.0	10.0	07/11/2015	ND	202	101	200	12.6		

Surrogate: 1-Chlorooctane 85.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.9 % 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

Analytical Results For:

 CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 11 @ 3' (H501734-09)

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	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEX	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/14/2015	ND	432	108	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	07/11/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/11/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 92.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.6 % 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

Analytical Results For:

 CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 12 @ 3' (H501734-10)

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	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEX	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	07/14/2015	ND	432	108	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	07/11/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/11/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 89.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 95.2 % 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.



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:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 13 @ 3' (H501734-11)

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	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEX	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/14/2015	ND	432	108	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	07/11/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/11/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 87.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.2 % 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.



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:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 14 @ 3' (H501734-12)

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	07/14/2015	ND	2.11	106	2.00	1.29	
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21	
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99	
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07	
Total BTEX	<0.300	0.300	07/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	07/14/2015	ND	432	108	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	07/11/2015	ND	199	99.4	200	5.17	
DRO >C10-C28	<10.0	10.0	07/11/2015	ND	202	101	200	12.6	

Surrogate: 1-Chlorooctane 86.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.8 % 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

Analytical Results For:

 CIMAREX ENERGY CO.-MIDLAND
 CHRISTINE ALDERMAN
 600 N. MARIENFELD ST, SUITE 600
 MIDLAND TX, 79701
 Fax To: UNK-NOWN

Received:	07/08/2015	Sampling Date:	07/07/2015
Reported:	07/15/2015	Sampling Type:	Soil
Project Name:	GADWALL 2ND RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 15 @ 3' (H501734-13)

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	07/14/2015	ND	2.11	106	2.00	1.29		
Toluene*	<0.050	0.050	07/14/2015	ND	2.27	114	2.00	1.21		
Ethylbenzene*	<0.050	0.050	07/14/2015	ND	2.15	108	2.00	1.99		
Total Xylenes*	<0.150	0.150	07/14/2015	ND	6.55	109	6.00	2.07		
Total BTEX	<0.300	0.300	07/14/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 136 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	07/14/2015	ND	432	108	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	07/11/2015	ND	199	99.4	200	5.17		
DRO >C10-C28	<10.0	10.0	07/11/2015	ND	202	101	200	12.6		

Surrogate: 1-Chlorooctane 86.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.4 % 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.



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.



Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Cimatek		P.O. #:	
Project Manager: Lance Crumshaw		Company: Cimatek	
Address:		Attn: Christine Alderman	
City:		Address:	
State:		City:	
Zip:		State:	
Phone #:		Zip:	
Fax #:		Phone #:	
Project #:		Fax #:	
Project Owner:		PRESERV:	
Project Name: Goodwill job release		SAMPLING:	
Project Location:		DATE	
Sampler Name: Lance Crumshaw		TIME	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:			
H501794												
1	SP1023'	G	1	V	V	V	V	V	7-7	8:30		
2	SP2023'	G	1	V	V	V	V	V	7-7	8:45		
3	SP3023'	G	1	V	V	V	V	V	7-7	9:10		
4	SP4023'	G	1	V	V	V	V	V	7-7	9:50		
5	SP6023'	G	1	V	V	V	V	V	7-7	11:05		
6	SP7024'	G	1	V	V	V	V	V	7-7	11:35		
7	SP9023'	G	1	V	V	V	V	V	7-7	11:55		
8	SP1024'	G	1	V	V	V	V	V	7-7	1:15		
9	SP1023'	G	1	V	V	V	V	V	7-7	1:30		
10	SP12023'	G	1	V	V	V	V	V	7-7	2:10		

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: Lance Crumshaw	Date: 8/15	Time: 8:45	Received By: Scotti Shumaker
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 5:42	Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: [Signature] (Initials)	REMARKS: lcrumshaw@diversifieldsci.com phurstn@diversifieldsci.com

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CARDINAL Laboratories

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: Cimax P.O. #:
 Project Manager: Lance Crinsman Company: Cimax
 Address: Attn: Christie Alderman
 City: State: Zip: Address:
 Phone #: Fax #: City: State: Zip: Project Owner:
 Project #: Project Location: Cadwall 2nd release Phone #: Fax #:
 Project Name: Cadwall 2nd release State: Zip:
 Project Location: Phone #: Fax #:
 Sampler Name: FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H501734	SP13E3,1	G	1							7-7	2:25	CL
	SP14E3,1	G	1							7-7	2:45	BTEX
	SP15E3,1	G	1							7-7	3:00	TDH

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: Lance Crinsman Date: 7/8/15 Time: 8:45
 Relinquished By: Lance Crinsman Received By: Christie Alderman
 Date: Time: Received By:

Delivered By: (Circle One) UPS 5:42
 Sampler - UPS - Bus - Other: 5:42
 Sample Condition: Cool Intact
 Yes No Yes No
 CHECKED BY: [Signature]

REMARKS: Crinsman@divis.fsi.com
mborn@divis.fsi.com
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 #154

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 <u>Cimarex Energy</u>	Contact <u>Christine Alderman</u>
Address <u>600 N Marienfeld Ste 600 Midland TX</u>	Telephone No. <u>432-853-7059</u>
Facility Name <u>Gadwall 18 Fed Com 2H1</u>	Facility Type <u>production</u>
Surface Owner <u>Federal</u>	Mineral Owner _____ API No. <u>30-015-39141</u>

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	18	25S	27E	150	N	2310	W	Eddy

Latitude 32.13681 Longitude -104.23044

NATURE OF RELEASE

Type of Release <u>produced water</u>	Volume of Release <u>15 bbls</u>	Volume Recovered <u>0</u>
Source of Release <u>poly flowline</u>	Date and Hour of Occurrence <u>06/21/2015</u>	Date and Hour of Discovery <u>06/21/2015</u>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <u>Mike Bratcher/BLM</u>	
By Whom? <u>Christine Alderman</u>	Date and Hour <u>6/22/2015 4:00pm</u>	
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.*
Poly flowline ruptured

Describe Area Affected and Cleanup Action Taken.*
ROW area of pasture just down from where it had previously ruptured. Followed 2 tract road down ranchers water line. Diversified will assess and develop workplan.

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: <u>Christine Alderman</u>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: <u>Christine Alderman</u>	Approved by Environmental Specialist:	
Title: <u>ESH Supervisor</u>	Approval Date:	Expiration Date:
E-mail Address: <u>calderman@cimarex.com</u>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>6/26/2015</u> Phone: <u>432-853-7059</u>		

* Attach Additional Sheets If Necessary