

Cottonwood Draw 22 Fed 2H

CLOSURE REPORT

Release Date: 7/9/2015

UL/I Sec 22, T25S, R26E, Eddy County NM

API # 30-015-36757

NMOCD Case #: 2RP-3136

May 26, 2015

Prepared by:

Michael Burton, Environmental Operations Director
Environmental Department
Diversified Field Service, Inc.
206 West Snyder
Hobbs, NM 88240

Phone: (575)964-8394 Fax: (575)393-8396

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Diversified Field Service, Inc. 3412 N. Dal Paso Hobbs, NM 88240 (575) 964-8394 Cimarex Energy May 26, 2016

Cimarex Triste Draw 36 State Battery

1 Introduction

Cimarex has retained Diversified Environmental (DFSI) to address environmental issues for the site detailed herein.

The site is located west of Jal, NM, in Lea County. On December 14, 2015, the spill site resulted from a failure of a 2" check valve, allowing fluids to overfill low case and exit 1" vent lines. Approximately 20 bbls of produced water was released, with 12 bbls of recovered. The impacted area a fenced area around the compressor and treaters, the pad and a small area of the pasture. An initial C-141 was submitted to the NMOCD and approved on December 16, 2015 (Appendix I).

2 SITE ACTIVITIES

On December 18, 2015, DFSI personnel on site to obtain samples within the leak area (Appendix II). Six samples were obtained and field sampled for chloride levels, as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). Clean field samples were obtained and submitted for laboratory analysis at Cardinal Laboratories of Hobbs, NM for confirmation (Appendix III).

A work plan was submitted to NMOCD on January 4, 2016, and approved on January 6, 2016. Beginning February 2, 2016, DFSI personnel were on site to remove soil surrounding the compressor area by hand to 1' bgs. The pad and pasture area were excavated to 1' bgs, with the exception of SP-4, which was excavated to 3' bgs. Sidewall samples were collected within the 3' excavation area and submitted to a commercial laboratory for analysis (Appendix IV). The pad and compressor excavated areas were backfilled with caliche. The pasture excavated area was backfilled with native topsoil to ground surface and contoured to the surrounding area (Appendix V). Contaminated soil was properly disposed of at an NMOCD approved facility. The pasture area of the site was seeded with a mixture of blended vegetation (Appendix VI).

3 CONCLUSION

According to the ConocoPhillips depth to groundwater map, depth to groundwater in the area averages 400 ft. bgs. Based on the report and work completed, any remaining chloride and BTEX components in the vadose zone will not affect groundwater beneath this site, with vegetation expected to return to normal; therefore, DFSI, on behalf of Cimarex, submits the final C-141 (Appendix VII) and respectfully requests the closure of this regulatory file.

Diversified Field Service, Inc.

Appendix I

INITIAL C-141

District 1
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

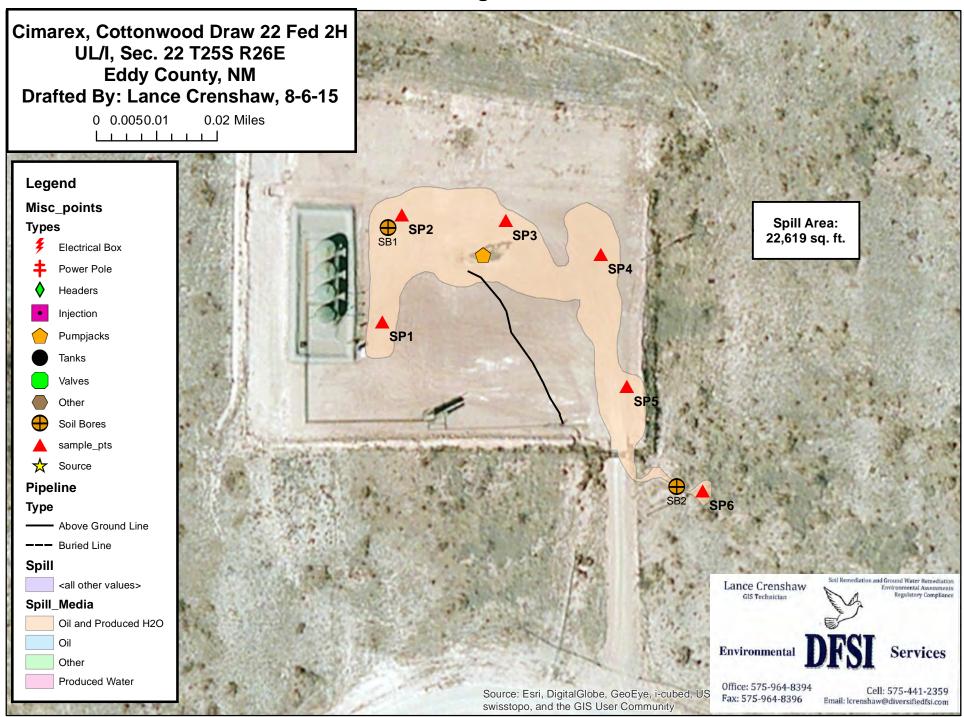
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

| | | , | Rele | ease Notific | ation | i and Co | orrective A | ction | | | | | 1 | |
|---|--|--|--|---|--|---|---|---|--------------------------------------|--|----------------------------------|-----------------------------------|----------|--|
| nABIG | 5202 | 38826 | 3 | _ | | OPERA' | ГOR | E | ⊠ Initia | al Report | | Final Repor | rt | |
| Name of Co | | | | 142483 | | | ristine Alderma | | | | | |] | |
| Address 60 | | | | | | | No. 432-853-70 | 159 | | | | |] | |
| Facility Nan | ne Cotton | wood Draw | 22 Fed 2 | <u>H</u> | | Facility Typ | e production | | | | | |] [| |
| Surface Own | ner BLM | *************************************** | | Mineral O | wner | | <u> </u> | | API No | . 30-015 | -36757 | | 7 { | |
| | | | | LOCA | TIO | N OF RE | FACE | | | | | | | |
| Unit Letter | Section | Township | Range | Feet from the | | South Line | Feet from the | East/W | est Line | County | | | 7 | |
| ĭ | 22 | 258 | 26E | 2310 | | S | 380 | | 3 | | Eddy | | | |
| | , | | | 4 | 2.1143 | | | 1 | | J | | | _ | |
| Latitude_32.11436_Longitude104.272 NATURE OF RELEASE | | | | | | | | | | | | | | |
| Type of Release oil/produced water Volume of Release 12 bbls oil Volume Recovered 4 bbls oil | | | | | | | | | | | | | | |
| 8 bbls PW 6 bbls PW | | | | | | | | | | | | | | |
| Source of Release gas regulator Date and Hour of Occurrence 07/09/15 Was Immediate Notice Given? Date and Hour of Discovery 07/09/15 If YES, To Whom? | | | | | | | | | | | | | | |
| Was Immedia | te Notice C | | Ves C | No Not Re | ouired | | | , | | | | | | |
| By Whom? | Gloria Gara | | | | quired | Mike Bratcher/Randy Pair Date and Hour 07/09/15 10:30 pm NM OIL CONSERVATION | | | | | | | | |
| Was a Watero | | | | | | | olume Impacting t | | | | | IA DISTRIC | | |
| | | | Yes 🗵 |] No | | | | | | | 11.11 | 1 6 2019 | <u>-</u> | |
| If a Watercou | rse was Im | pacted, Descr | bc Fully. | \$ | *************************************** | | | 43************************************* | | | | I U & U 1 | 7 | |
| Describe Cau The gas regul which failed t | ator on the | safcty system | of the we | II was installed in | correcti | y and rather t | han having a supp | oly of gas | it was ge | tting fluids. | The reg | gulator failed | | |
| Describe Area | Affected : | and Cleanun 4 | Action Tal | cen * | | | <u> </u> | | <u>-</u> - | | | | \dashv | |
| Location pad | and slightly | y down a cow | path into | the pasture area. | An envi | ronmental co | mpany will deline | eate and d | evelop w | ork plan. | | | į | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| regulations al public health should their o or the environ | l operators or the envir perations h unent. In a | are required to ronment. The ave failed to a ddition, NMC | o report an acceptant dequately ICD accep | e is true and comp nd/or file certain rece of a C-141 report investigate and recetance of a C-141 | elease noted the control of the cont | otifications a e NMOCD m e contaminati | nd perform correct arked as "Final R on that pose a thr | ctive action teport" do reat to gro | ns for rel cs not rel und watc | eases which ieve the ope r, surface wa | may en erator of ater, hur | danger Iiability nan health | | |
| Signature: (| Signature: Wustine alderman OIL CONSERVATION DIVISION | | | | | | | | | | | | | |
| Printed Name: Christine Alderman Approved by Environmental Specialist: | | | | | | | | | | | | | | |
| Title: ESH Supervisor Approval Date: 71115 Expiration Date: NIA | | | | | | | | | | | | | | |
| E-mail Addre | ss: caldern | nan@cimarex | com | | 123 | Conditions o | Approval: per O.C.D. R | ules & | Guidel | ines Attached | | | | |
| Date: | | | | 7059 | ~ 1 | emit Ren | NEU A LA | ROPO | PAL MC | | , | | | |
| Attach Addit | Date: Phone: 432-853-7059 Attach Additional Sheets If Necessary ATTACHED TO C. D. Hules of S. D | | | | | | | | | | | | | |

Appendix II

SITE MAP

Site Diagram



Appendix III

SOIL DELINEATION LABORATORY ANALYSIS



December 02, 2015

CHRISTINE ALDERMAN

CIMAREX

2020 W. BENDER

HOBBS, NM 88240

RE: COTTONWOOD DRAW 22 FED 2H

Enclosed are the results of analyses for samples received by the laboratory on 11/25/15 9:00.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 11/25/2015 Sampling Date: 11/24/2015

Reported: 12/02/2015 Sampling Type: Soil

Project Name: COTTONWOOD DRAW 22 FED 2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: CIMAREX

Sample ID: SAMPLE POINT 1 @ 2' (H503117-01)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|-----------------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/01/2015 | ND | 2.00 | 100 | 2.00 | 2.96 | |
| Toluene* | <0.050 | 0.050 | 12/01/2015 | ND | 2.00 | 99.8 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/01/2015 | ND | 2.06 | 103 | 2.00 | 9.79 | |
| Total Xylenes* | <0.150 | 0.150 | 12/01/2015 | ND | 6.11 | 102 | 6.00 | 2.96 | |
| Total BTEX | <0.300 | 0.300 | 12/01/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 104 % | 73.6-14 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 352 16.0 | | 12/01/2015 ND | | 416 | 104 | 400 | 3.77 | |
| 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 | 11/30/2015 | ND | 189 | 94.7 | 200 | 0.468 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/30/2015 | ND | 188 | 94.0 | 200 | 3.34 | |
| Surrogate: 1-Chlorooctane | 106 % | % 35-147 | , | | | | | | |
| Surrogate: 1-Chlorooctadecane | 115 % | 6 28-171 | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Received: 11/25/2015 Sampling Date: 11/24/2015

Reported: 12/02/2015 Sampling Type: Soil

Project Name: COTTONWOOD DRAW 22 FED 2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: CIMAREX

Sample ID: SAMPLE POINT 3 @ 2' (H503117-02)

| BTEX 8021B | mg/l | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|------------------------|-----------------|-----------------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/01/2015 | ND | 2.00 | 100 | 2.00 | 2.96 | |
| Toluene* | <0.050 | 0.050 | 12/01/2015 | ND | 2.00 | 99.8 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/01/2015 | ND | 2.06 | 103 | 2.00 | 9.79 | |
| Total Xylenes* | <0.150 | 0.150 | 12/01/2015 | ND | 6.11 | 102 | 6.00 | 2.96 | |
| Total BTEX | <0.300 | 0.300 | 12/01/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | | | | | | | | | |
| Chloride, SM4500CI-B | mg/l | kg | Analyze | d By: AP | | | | | |
| Analyte | Result Reporting Limit | | Analyzed Method Blank | | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 208 16.0 | | 12/01/2015 ND | | 416 | 104 | 400 | 3.77 | |
| 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 | 11/30/2015 | ND | 189 | 94.7 | 200 | 0.468 | |
| DRO >C10-C28 | <10.0 | 10.0 | 11/30/2015 | ND | 188 | 94.0 | 200 | 3.34 | |
| Surrogate: 1-Chlorooctane | 104 % | 6 35-147 | , | | | | | | |
| Surrogate: 1-Chlorooctadecane | 115 % | 6 28-171 | | | | | | | |

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Analytical Results For:

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

Received: 11/25/2015 Sampling Date: 11/24/2015

Reported: 12/02/2015 Sampling Type: Soil

Project Name: COTTONWOOD DRAW 22 FED 2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: CIMAREX

Sample ID: SAMPLE POINT 4 @ 2' (H503117-03)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|------------------------|----------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result Reporting Limit | | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/01/2015 | ND | 2.00 | 100 | 2.00 | 2.96 | |
| Toluene* | <0.050 | 0.050 | 12/01/2015 | ND | 2.00 | 99.8 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/01/2015 | ND | 2.06 | 103 | 2.00 | 9.79 | |
| Total Xylenes* | <0.150 | 0.150 | 12/01/2015 | ND | 6.11 | 102 | 6.00 | 2.96 | |
| Total BTEX | <0.300 0.300 | | 12/01/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | | | 40 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result Reporting Limit | | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 256 16.0 | | 12/01/2015 ND | | 416 | 104 | 400 | 3.77 | |
| 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 | 12/01/2015 | ND | 194 | 97.2 | 200 | 0.907 | |
| DRO >C10-C28 | <10.0 | 10.0 | 12/01/2015 | ND | 193 | 96.6 | 200 | 2.84 | |
| Surrogate: 1-Chlorooctane | 88.6 | % 35-147 | , | | | | | | |
| Surrogate: 1-Chlorooctadecane | 94.4 | % 28-171 | | | | | | | |

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Analytical Results For:

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

Received: 11/25/2015 Sampling Date: 11/24/2015

Reported: 12/02/2015 Sampling Type: Soil

Project Name: COTTONWOOD DRAW 22 FED 2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: CIMAREX

Sample ID: SAMPLE POINT 5 @ 2' (H503117-04)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|------------|-----------------|---------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/02/2015 | ND | 2.00 | 100 | 2.00 | 2.96 | |
| Toluene* | <0.050 | 0.050 | 12/02/2015 | ND | 2.00 | 99.8 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/02/2015 | ND | 2.06 | 103 | 2.00 | 9.79 | |
| Total Xylenes* | <0.150 | 0.150 | 12/02/2015 | ND | 6.11 | 102 | 6.00 | 2.96 | |
| Total BTEX | <0.300 | 0.300 | 12/02/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | | | | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 16.0 | | 12/01/2015 ND | | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 12/01/2015 | ND | 194 | 97.2 | 200 | 0.907 | |
| DRO >C10-C28 | <10.0 | 10.0 | 12/01/2015 | ND | 193 | 96.6 | 200 | 2.84 | |
| Surrogate: 1-Chlorooctane | 89.0 % | 6 35-147 | , | | | | | | |
| Surrogate: 1-Chlorooctadecane | 93.6 % | 6 28-171 | | | | | | | |

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Analytical Results For:

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

Received: 11/25/2015 Sampling Date: 11/24/2015

Reported: 12/02/2015 Sampling Type: Soil

Project Name: COTTONWOOD DRAW 22 FED 2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: CIMAREX

Sample ID: SOIL BORE 1 @ 2' (H503117-05)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|------------------------|-----------------|-----------------------|--------------|---------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/02/2015 | ND | 2.00 | 100 | 2.00 | 2.96 | |
| Toluene* | <0.050 0.050 | | 12/02/2015 | ND | 2.00 | 99.8 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/02/2015 | ND | ND 2.06 | | 2.00 | 9.79 | |
| Total Xylenes* | <0.150 | 0.150 | 12/02/2015 | ND | 6.11 | 102 | 6.00 | 2.96 | |
| Total BTEX | <0.300 0.300 | | 12/02/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | | | 0 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result Reporting Limit | | Analyzed Method Blank | | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 224 16.0 | | 12/01/2015 | ND | 416 | 104 | 400 | 3.77 | |
| TPH 8015M | mg/kg | | Analyze | d By: MS | | | | | |
| Analyte | Result Reporting Limit | | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 12/01/2015 | ND | 194 | 97.2 | 200 | 0.907 | |
| DRO >C10-C28 | <10.0 | 10.0 | 12/01/2015 | ND | 193 | 96.6 | 200 | 2.84 | |
| Surrogate: 1-Chlorooctane | 99.8 9 | % 35-147 | , | | | | | | |
| Surrogate: 1-Chlorooctadecane | 104 % | % 28-171 | | | | | | | |

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Analytical Results For:

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

Received: 11/25/2015 Sampling Date: 11/24/2015

Reported: 12/02/2015 Sampling Type: Soil

Project Name: COTTONWOOD DRAW 22 FED 2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: CIMAREX

Sample ID: SOIL BORE 2 @ 10' (H503117-06)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|------------------------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/02/2015 | ND | 2.00 | 100 | 2.00 | 2.96 | |
| Toluene* | <0.050 | 0.050 | 12/02/2015 | ND | 2.00 | 99.8 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/02/2015 | ND | 2.06 | 103 | 2.00 | 9.79 | |
| Total Xylenes* | <0.150 | 0.150 | 12/02/2015 | ND | 6.11 | 102 | 6.00 | 2.96 | |
| Total BTEX | <0.300 | 0.300 | 12/02/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | | | 0 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 112 16.0 | | 12/01/2015 ND | | 416 | 104 | 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 | 12/01/2015 | ND | 194 | 97.2 | 200 | 0.907 | |
| DRO >C10-C28 | 16.8 | 10.0 | 12/01/2015 | ND | 193 | 96.6 | 200 | 2.84 | |
| Surrogate: 1-Chlorooctane | 99.9 % | % 35-147 | , | | | | | | |
| Surrogate: 1-Chlorooctadecane | 106 % | 6 28-171 | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keens



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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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| Company Name: (* | | BILL TO | | ANALYSIS REQUEST |
|--|--|--|--|---------------------------------------|
| Project Manager: | | - 1 | | |
| Address: | | Company: | | |
| City: State: | Zip: | Attn: | | |
| Phone #: Fax #: | | Address: | | |
| Project #: Project Owner: | | City: | | |
| Project Name: Ci was Y-2 X | | State: Zip: | | |
| rood Draw | 22 Fed 2H | Phone #: | | |
| | | Fax #: | | |
| | MATRIX | PRESERV. SAMPLING | ING | |
| Lab I.D. Sample I.D. | (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE | OTHER: ACID/BASE: ICE / COOL OTHER: | Chloride TPH | BTEX |
| Sample 8+1 ex. | -# G V < s | A 10 | 2 | ~ (|
| 5 | 61 | , , | 1:30pm X X | X |
| 3 Sample Ptyla: | 0 | ` / | 2:00 M X Y | × |
| Sample Pt | - | | 2:30pm X X | × |
| 9 2011 Dove 11. 0 | 2 | | V X w. 405 "C | × |
| 6 So:1 Bove 20 10 | © - · | | X X x400;h | * |
| PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive nemedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and teceived 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 inhaltion, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, restricts. | clent's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the clent for the creature whatsoever shall be deemed waived unless made in writing and received by Cardinia within 30 days after completion of the a sequential damages, including without fination, business interruptions, loss of use, or loss of profits incurred by client, as subadiatives required to the contract of the con | in contract or fort, shall be limited to the amount paid by the client for the writing and received by Cardinal within 30 days after completion of the as until process, to see of use, or loss of profits incurred by client, its subsidiaries completion in the set of uses of profits incurred by client, its subsidiaries completion is traced until process of the set | id by the client for the er completion of the applicable client, its subsidiaries, | |
| Relinquished By: Ting : 0 | A | nson | Phone Result: Yes Fax Result: Yes REMARKS: | I Crow Shaw () A jupys, Fred Fs. com |
| Time: | | | | MOUSES (S |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | Sample Condition Cool Mact Tyes Tyes | ON CHECKED BY: | | 3 |
| † Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2926 | ase fax written changes to (| 575) 393-2926 | 嶄 | |

Page 9 of 9

Appendix IV

EXCAVATION BOTTOM LABORATORY ANALYSIS



February 17, 2016

CHRISTINE ALDERMAN

CIMAREX ENERGY CO.-MIDLAND

600 N. MARIENFELD ST, SUITE 600

MIDLAND, TX 79701

RE: COTTONWOOD DRAW 22 FED #2H

Enclosed are the results of analyses for samples received by the laboratory on 02/16/16 11:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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,

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: 02/16/2016 Sampling Date: 02/15/2016

Reported: 02/17/2016 Sampling Type: Soil

Project Name: COTTONWOOD DRAW 22 FED #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: NONE GIVEN

Sample ID: 7' EXCAVATION BOTTOM (H600352-01)

| 9/ | kg | Analyze | d By: MS | | | | | |
|------------------------|---|--|------------------------|-----------|------------|---------------|-------------|-----------|
| Result Reporting Limit | | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| <0.050 | 0.050 | 02/16/2016 | ND | 1.99 | 99.4 | 2.00 | 6.93 | |
| <0.050 | 0.050 | 02/16/2016 | ND | 1.96 | 97.9 | 2.00 | 6.53 | |
| <0.050 | 0.050 | 02/16/2016 | ND | 1.79 | 89.4 | 2.00 | 6.11 | |
| <0.150 | 0.150 | 02/16/2016 | ND | 5.51 | 91.9 | 6.00 | 5.87 | |
| <0.300 | 0.300 | 02/16/2016 | ND | | | | | |
| 105 % | 6 73.6-14 | 0 | | | | | | |
| mg/ | kg | Analyze | d By: AP | | | | | |
| Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| 304 16.0 | | 02/17/2016 ND | | 416 | 104 | 400 | 2 02 | |
| mg/kg | | 02, 17, 2010 | | 110 | 101 | 100 | 3.52 | |
| | | | d By: MS | 110 | 101 | 100 | 3.92 | |
| | | | | BS | % Recovery | True Value QC | RPD | Qualifier |
| mg/ | kg | Analyze | d By: MS | | | | | Qualifier |
| mg/ Result | kg Reporting Limit | Analyze Analyzed | d By: MS Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| mg/ Result <10.0 | Reporting Limit 10.0 10.0 | Analyzed Analyzed 02/16/2016 02/16/2016 | Method Blank | BS 208 | % Recovery | True Value QC | RPD 1.10 | Qualifier |
| | <0.050 <0.050 <0.050 <0.150 <0.300 105 % mg/ | <0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300 105 % 73.6-14 mg/kg Result Reporting Limit | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |

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Celey D. Keine



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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Celeg D. Freene

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

ft

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

| Delivered By: (Circle One) | Rélinquished By: | Relinquished By: | PLEASE NOTE: Liability and analyses. All claims including the property of the | | | | | 10 0 | 1600352 | Lab I.D. | FOR LAB USE ONLY | Project Location. | | mo. | Project #: | Phone #: | City: | Address: | Project Manager: (Wrts Hue | Company Name: Cimarex | (5 |
|---|------------------|------------------------------|---|---|---|---|---|---------------------|---------|-------------------------------------|------------------|-------------------|-------------|-------------|----------------|----------|--------|----------|-----------------------------|-----------------------|-----------------------------------|
| (Circle One) | | Relinquished By: | PLEASE NOTE: Lability 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 applicable analyses. All claims including those for negligence and any other cause whatspewer shall be deemed waived unless made in writing and received by Cardinal within 100 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatspewer shall be deemed waived unless on the shall be calcinated in normal by client, its subsidiaries. In or worst ball Cardinal be liable for incidental of consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries. | | | | | 4 excavation Bottom | | Sample I.D. | | | Cha and Day | A. Marie X | Pro | Fax #: | St | | brishup Alderman | imarex | (575) 393-2326 FAX (575) 393-24/6 |
| | Time: | Date: 2-16-2016 | xclusive remedy for a whatsoever shall be al damages, including | | | | | ofton | | | | 100 | no Fod | | Project Owner: | * | State: | | 5 | | 393-24/0 |
| Sample Condition Cool Intact Cytes Gyes | Received By: | Date: Received By: | ny claim arising whether based in co deemed waived unless made in writin without limitation, business interrupt | | | | | 61 / | # C | L | MATRIX | | 416 7 | | | | Zip: | | | | |
| ndition CHECKED BY: ct (Initials) | MAN | | ntract or tort, shall be limited to the grand received by Cardinal within long, loss of use, or loss of profits ong, loss of use, or loss of profits | | | | | 1, 2, | O' | UDGE THER: CID/BASE: E / COOL THER: | PRESERV. | Fax #: | Phone #: | State: Zip: | City: | Address: | Attn: | Company: | P.O. #: | BILL 10 | |
| s) | @Mail | Phone Result: Fax Result: | e amount paid by the client 30 days after completion of incurred by client, its subsects of other | | | | | 2/15/2016 4:20 PM | DAIE | | SAMPLING | | | | | | | | | 10 | 45 |
| | | 177 | for the if the applicable diaries, wise. | | Ī | | | × | ┰ | Chloride | | | | | | | | | | 1 | |
| - | 8 0 | ☐ Yes | | | | + | - | × | † | TPH | _ | _ | _ | | | | _ | _ | _ | 1 | ١ |
| Cflor | Maly | No No | | H | | | | × | 1 | BTEX | _ | - | _ | | | | | | | 1 | |
| cflores (| 3 3 6 | Add'l | | H | | | | | 1 | | | | | | | | | | | | ANALYSIS |
| | dis | Add'l Phone #: Add'l Fax #: | | | | | | | - | | _ | _ | | | | | | _ | _ | | |
| | monthron (2) | , | | | | | | | | | | | | | | | | | | | REQUEST |
| | | | | | | | | | | | | | | | | | | | | | |

Appendix V

SITE PHOTOS



Cottonwood Draw 22 Fed 2H

PHOTO PAGE



Site prior, facing southwest

11/24/2015



Collecting samples, facing west

11/24/2015



Site prior, facing northeast

11/24/2015



Collecting samples, facing northwest

11/24/2015



Excavating site, facing east

2/15/2016



Excavating site, facing west

2/15/2016



Exporting soil, facing south

2/15/2016



Excavating site, facing southeast

2/15/2016



Completed 1' excavation, facing southeast

2/15/2016



Completed 1' excavation, facing

southeast

2/15/2016







Seeding site 3/26/2016



Seeding site 3/26/2016



Seeding site 3/26/2016



Site completed 3/26/2016



Site completed 3/26/2016

Appendix VI

SEEDING REPORT

DIVERSIFIED FIELD SERVICES, INC.

96.^{DD8/6}

39.00%

Total Bulk Pounds;

Project: cottonwood of Fed 2tt

Seed and lbs used: Leave of 13 th

Date Started: 7/70

Date Completed:_

Supervisor

Appendix VII

FINAL C-141

<u>District I</u> 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 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

| | | | Rele | ease Notific | ation | on and Corrective Action | | | | | | | | | |
|--|---|---|---|---|-------------------------------------|--|--|-----------------------------------|--|--|---------------------------------|---------------------------------------|--|--|--|
| | | | | | | OPERATOR ☐ Initial Report ☐ Final Report ☐ Contact: Christine Alderman | | | | | | | | | |
| | | Cimarex Ene | | nd TV | | | ristine Alderma No. 432-853-705 | | | | | | | | |
| | | wood Draw | | | | | e: Production | 19 | | | | | | | |
| Surface Ow | | | | Mineral C |)wner: | 7 71 | | | API No | . 30-015-30 | 5757 | | | | |
| Burrace Ow | iler. BEN | 1 | | | | I OE DEI | EACE | | 7111110 | . 50 015 50 | 3737 | | | | |
| Unit Letter I | Section 22 | Township 25S | Range 26E | Feet from the 2310 | | OF REI | Feet from 380 | East/V E | Vest Line | County Eddy | | | | | |
| | | | | Latitude: 3 | 2.11436 | 51 Longitu | de: -104.272 | | | | | | | | |
| | | | | NAT | URE (| OF REL | EASE | | | | | | | | |
| | | roduced Water | | | | 8 bbls PW | Release: 12 bbls | | 6 bbls PW | | | | | | |
| Source of Re | | | | | | 07/09/15 | Iour of Occurrence | e | Date and 1 07/09/15 | Hour of Dise | covery | , | | | |
| Was Immedia | ate Notice (| | Yes | No Not Re | equired | If YES, To Mike Brate | Whom? her/Randy Pair | | | | | | | | |
| By Whom? | | | | | | Date and Hour: 07/09/15 10:30 PM If YES, Volume Impacting the Watercourse. | | | | | | | | | |
| Was a Water | course Read | | Yes 🗵 |] No | | If YES, Volume Impacting the Watercourse. | | | | | | | | | |
| | | pacted, Descri | | | | | | | | | | | | | |
| The gas regul | ator on the | | of the we | | | | han having a supp ture area. | ly of ga | s it was get | tting fluids. | The re | egulator failed | | | |
| On December well as BTEX | r 18, 2015, K. The BTI | EX samples we | el on site ere perfor | to obtain samples | Rae Pho | | | | | | | | | | |
| to remove soi was excavate and compress | Il surroundi d to 3' bgs. sor excavate the surroun | ng the compre Sidewall samed areas were ding area. Co | ssor area ples were backfilled | by hand to 1' bgs. collected within t with caliche. The | The pache 3' except pasture | ved on January 6, 2016. Beginning February 2, 2016, DFSI personnel were on site pad and pasture area were excavated to 1' bgs, with the exception of SP-4, which excavation area and submitted to a commercial laboratory for analysis. The pad ture excavated area was backfilled with native topsoil to ground surface and posed of at an NMOCD approved facility. The pasture area of the site was seeded | | | | | | | | | |
| regulations al public health should their or or the environ | I operators or the envir operations hament. In a | are required to ronment. The ave failed to a | report ar acceptand dequately CD accep | nd/or file certain rece of a C-141 report investigate and re | elease no ort by the emediate | otifications as NMOCD m contaminati | knowledge and used perform correct arked as "Final Roon that pose a three the operator of rectangled the contract of the contr | tive act eport" d eat to gr | ions for rele loes not reli ound water | eases which eve the oper r, surface wa | may entage at or of the ter, hu | ndanger f liability ıman health | | | |
| | | | | | | | OIL CONS | SERV | ATION | DIVISIO |)N | | | | |
| Signature: | | | | | | | | | | | | | | | |
| Printed Name | e: Christine | Alderman | | | A | Approved by | Environmental Sp | pecialist | : | | | | | | |
| Title: ESH St | pervisor | | | | A | Approval Date: Ex | | | Expiration 1 | Date: | | | | | |
| E-mail Addre | ess: <u>calderm</u> | nan@cimarex. | <u>com</u> | | | Conditions of Approval: | | | | Attached | | | | | |
| Date: 5-2 | 6-2016 | Phone: 432-8 | 53-7059 | | | | | | | | | | | | |

^{*} Attach Additional Sheets If Necessary

Received by OCD: 10/13/2022 9:20:35 AM State of New Mexico
Page 6 Oil Conservation Division

Incident ID
District RP
Facility ID
Application ID

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

| Closure Report Attachment Checklist: Each of the following | g items must be included in the closure report. |
|--|---|
| A scaled site and sampling diagram as described in 19.15.29 | 0.11 NMAC |
| Photographs of the remediated site prior to backfill or photomust be notified 2 days prior to liner inspection) | os of the liner integrity if applicable (Note: appropriate OCD District office |
| Laboratory analyses of final sampling (Note: appropriate OI | OC District office must be notified 2 days prior to final sampling) |
| Description of remediation activities | |
| | |
| and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regulatore, reclaim, and re-vegetate the impacted surface area to the caccordance with 19.15.29.13 NMAC including notification to the | plations. The responsible party acknowledges they must substantially conditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. |
| OCD Only | |
| Received by: | Date: |
| | ty of liability should their operations have failed to adequately investigate and e water, human health, or the environment nor does not relieve the responsible d/or regulations. |
| Closure Approved by: Hall | Date: 1/4/2023 |
| Printed Name: Brittany Hall | Title: Environmental Specialist |

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 150648

CONDITIONS

| Operator: | OGRID: |
|--------------------------------|---|
| CIMAREX ENERGY CO. OF COLORADO | 162683 |
| 600 N. Marienfeld Street | Action Number: |
| Midland, TX 79701 | 150648 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | | Condition Date |
|---------------|------|-------------------|
| bhall | None | 1/4/2023 |