

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 items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: *Jac. Lj* Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: Jocelyn Harimon Date: 05/01/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: *Robert Hamlet* Date: 9/13/2023

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced



## SITE INFORMATION

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**Closure Report**  
**Crow Flats 16 State Com #002**  
**Incident ID: NAB1617627149**  
**Eddy County, New Mexico**  
**Unit M Sec 16 T16S R28E**  
**32.9171333°, -104.1882935°**

**Point of Release:**  
**Crude oil stock tank developed a hole in the bottom of it.**  
**Release Date: 06/20/2016**  
**Volume Released: 165 Barrels of Crude Oil**  
**Volume Recovered: 85 Barrels of Crude Oil**

**CARMONA RESOURCES**



**Prepared for:**  
**Cimarex Energy Co. of Colorado**  
**600 N. Marienfeld Street**  
**Suite 600**  
**Midland, Texas 79701**

**Prepared by:**  
**Carmona Resources, LLC**  
**310 West Wall Street**  
**Suite 500**  
**Midland, Texas 79701**



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April 18, 2023

Mike Bratcher  
District Supervisor  
Oil Conservation Division, District 2  
811 S. First Street  
Artesia, New Mexico 88210

**Re: Closure Report**  
**Crow Flats 16 State Com #002**  
**Incident ID: NAB1617627149**  
**Cimarex Energy Co. of Colorado**  
**Site Location: Unit M, S16, T16S, R28E**  
**(Lat 32.9171333°, Long -104.1882935°)**  
**Eddy County, New Mexico**

Mr. Bratcher:

On behalf of Cimarex Energy Co. of Colorado (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for the Crow Flats 16 State Com #002. The site is located at 32.917133°, -104.1882935° within Unit M, S16, T16S, R28E, in Eddy County, New Mexico (Figures 1 and 2).

### **1.0 Site Information and Background**

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on June 20, 2016, caused by a hole that was developed in the bottom of the crude oil stock tank. It resulted in approximately one-hundred-and-sixty-five (165) barrels of crude oil, and eighty-five (85) barrels of crude oil were recovered. The impacted area is located on the pad. Refer to Figure 3 for a spill overview. The initial C-141 form is attached in Appendix C.

### **2.0 Site Characterization and Groundwater**

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest identified well is approximately 3.31 miles Southwest of the site in S36, T16S, R27E and was drilled in 2016. The well has a reported depth to groundwater of 55' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

### **3.0 NMAC Regulatory Criteria**

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg.

### **4.0 Site Assessment Activities**

On March 28, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, six (6) soil samples and four (4) horizontal sample points were advanced to depths ranging from the surface to 2.0' below ground surface (bgs) inside the



area of concern. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. Refer to Table 1.

### **5.0 Remediation Activities**

Between April 10, 2023, and April 12, 2023, Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on April 5, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The areas of S-1 and H-4 were excavated to a depth of 1.5 - 2.0' bgs. A total of twelve (12) confirmation floor samples (CS-1 through CS-12) and four (4) sidewall samples (SW-1 through SW-4) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA Method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

All final confirmation samples were below the reclamation and regulatory requirements for TPH, BTEX, and chloride. Refer to Table 2.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 180 cubic yards of material were excavated and transported offsite for proper disposal.

### **6.0 Conclusions**

Based on the assessment results and the analytical data, no further actions are required at the site. The final C-141 is attached, and Cimarex formally requests the closure of the spill. If you have any questions regarding this report or need additional information, please get in touch with us at 432-813-1992.

Sincerely,

**Carmona Resources, LLC**

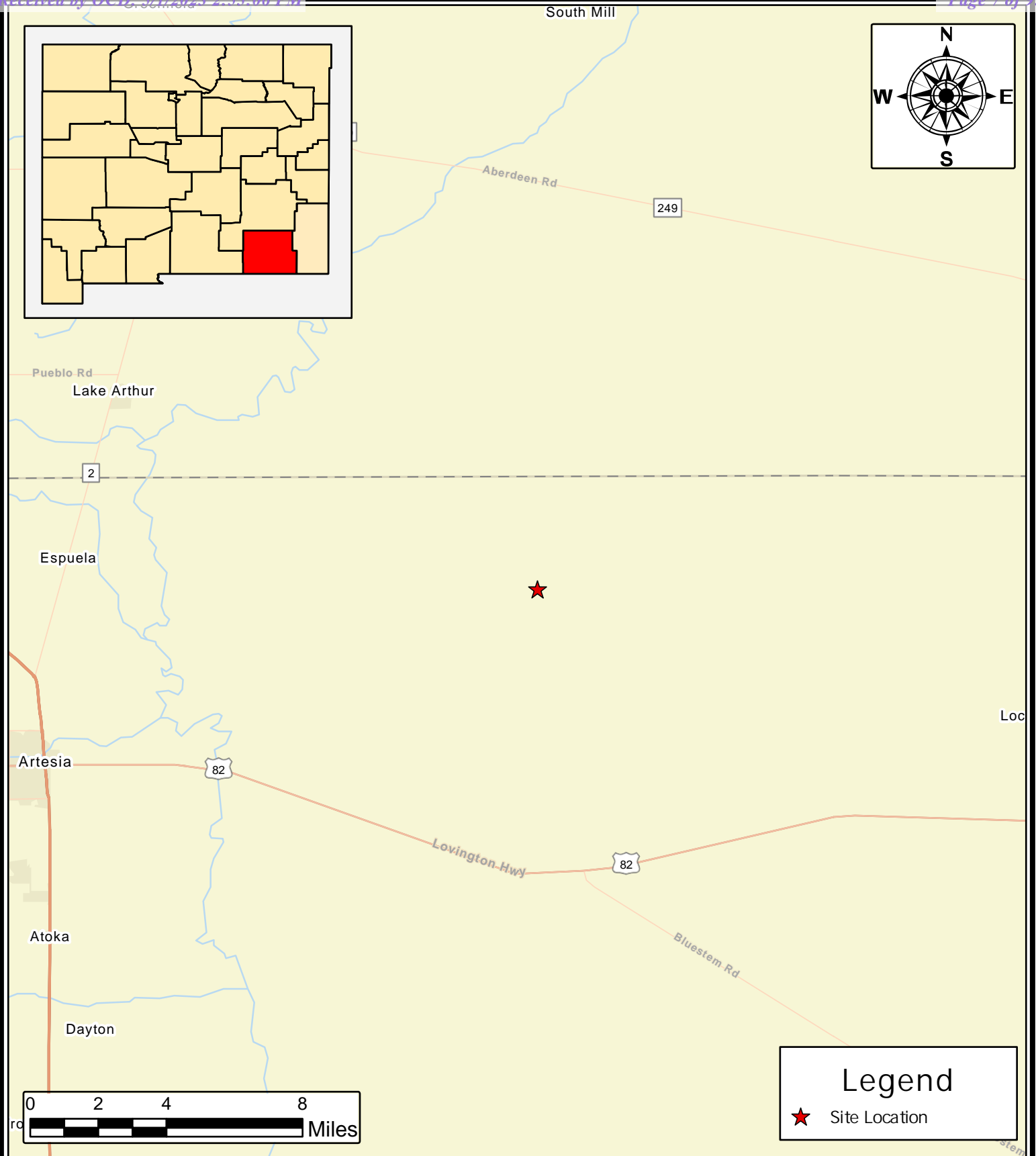
Ashton Thielke  
Sr. Project Manager

Conner Moehring  
Sr. Project Manager

## FIGURES

CARMONA RESOURCES





**Legend**

★ Site Location

**OVERVIEW MAP**  
**CIMAREX ENERGY CO. OF COLORADO**  
 CROW FLATS 16 STATE COM #002  
 EDDY COUNTY, NEW MEXICO  
 32.9171333, -104.1882935

SCALE: As Shown      Date: 4/16/2023

CARMONA RESOURCES

**Carmona Resources**  
 310 West Wall Street, Suite 500  
 Midland, Texas 79701

**NOTES:**

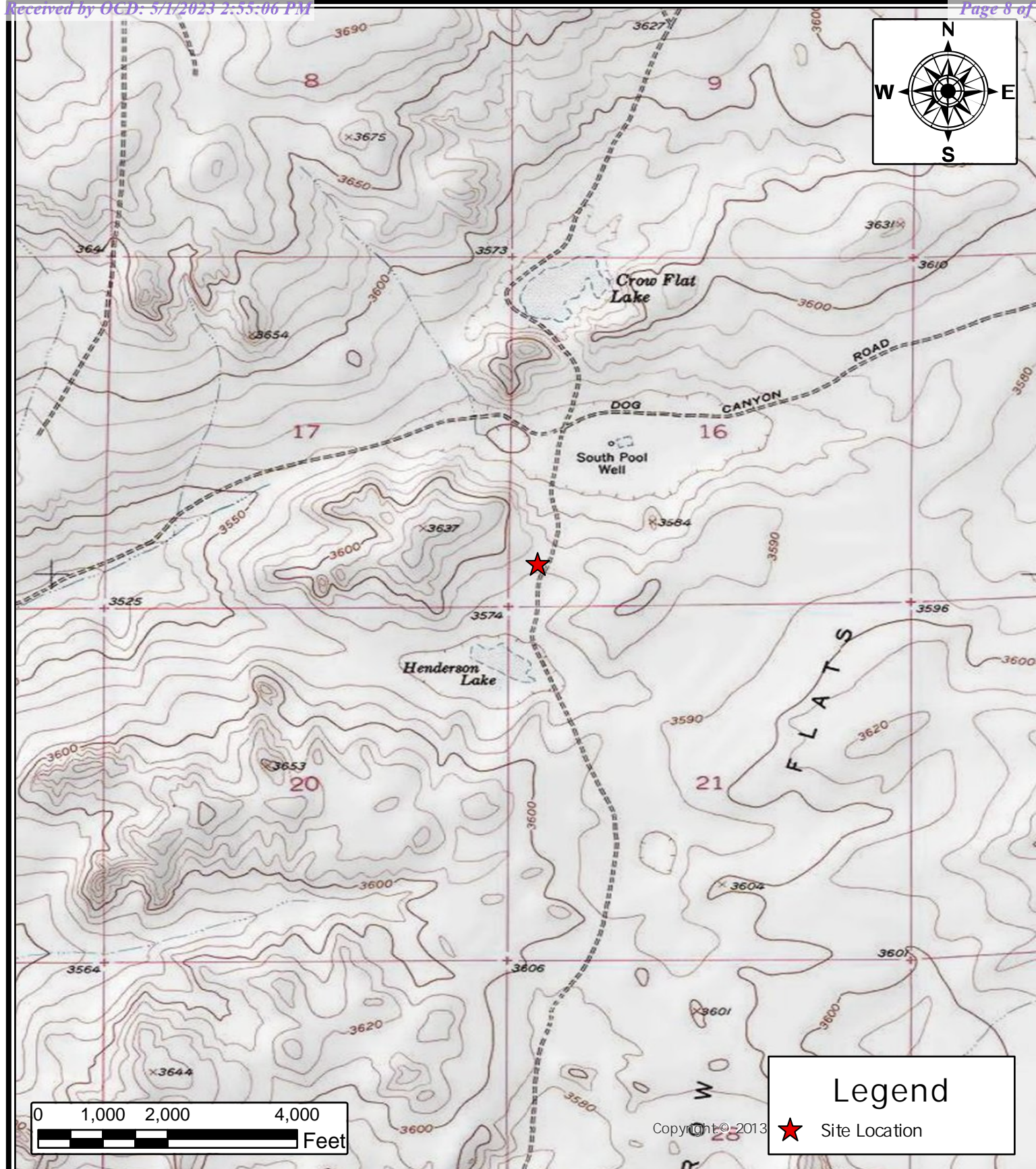
1. Base Image: ESRI Maps & Data 2023  
 2. Map Projection: WGS84

DRAWING NUMBER:

**FIGURE 1**

SHEET NUMBER:

1 of 1



**TOPOGRAPHIC MAP**  
**CIMAREX ENERGY CO. OF COLORADO**  
 CROW FLATS 16 STATE COM #002  
 EDDY COUNTY, NEW MEXICO  
 32.9171333, -104.1882935

SCALE: As Shown

Date: 4/16/2023

CARMONA RESOURCES



**Carmona Resources**  
 310 West Wall Street, Suite 500  
 Midland, Texas 79701

**NOTES:**

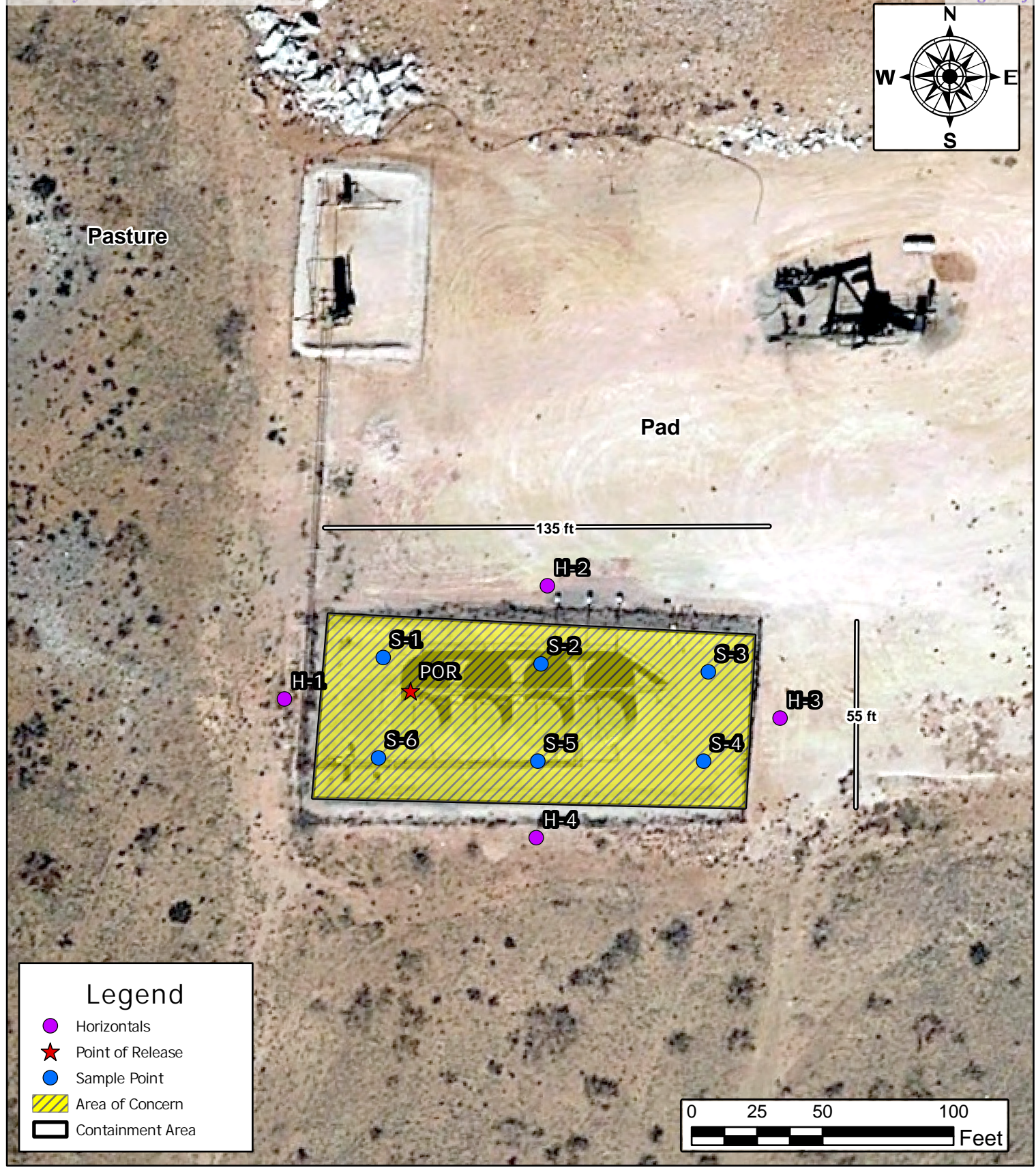
1. Base Image: ESRI Maps & Data 2023
2. Map Projection: WGS84

DRAWING NUMBER:

**FIGURE 2**

SHEET NUMBER:

1 of 1



**SAMPLE LOCATION MAP**  
**CIMAREX ENERGY CO. OF COLORADO**  
CROW FLATS 16 STATE COM #002  
EDDY COUNTY, NEW MEXICO  
32.9171333, -104.1882935

SCALE: As Shown

Date: 4/17/2023



**Carmona Resources**  
310 West Wall Street, Suite 500  
Midland, Texas 79701

**NOTES:**

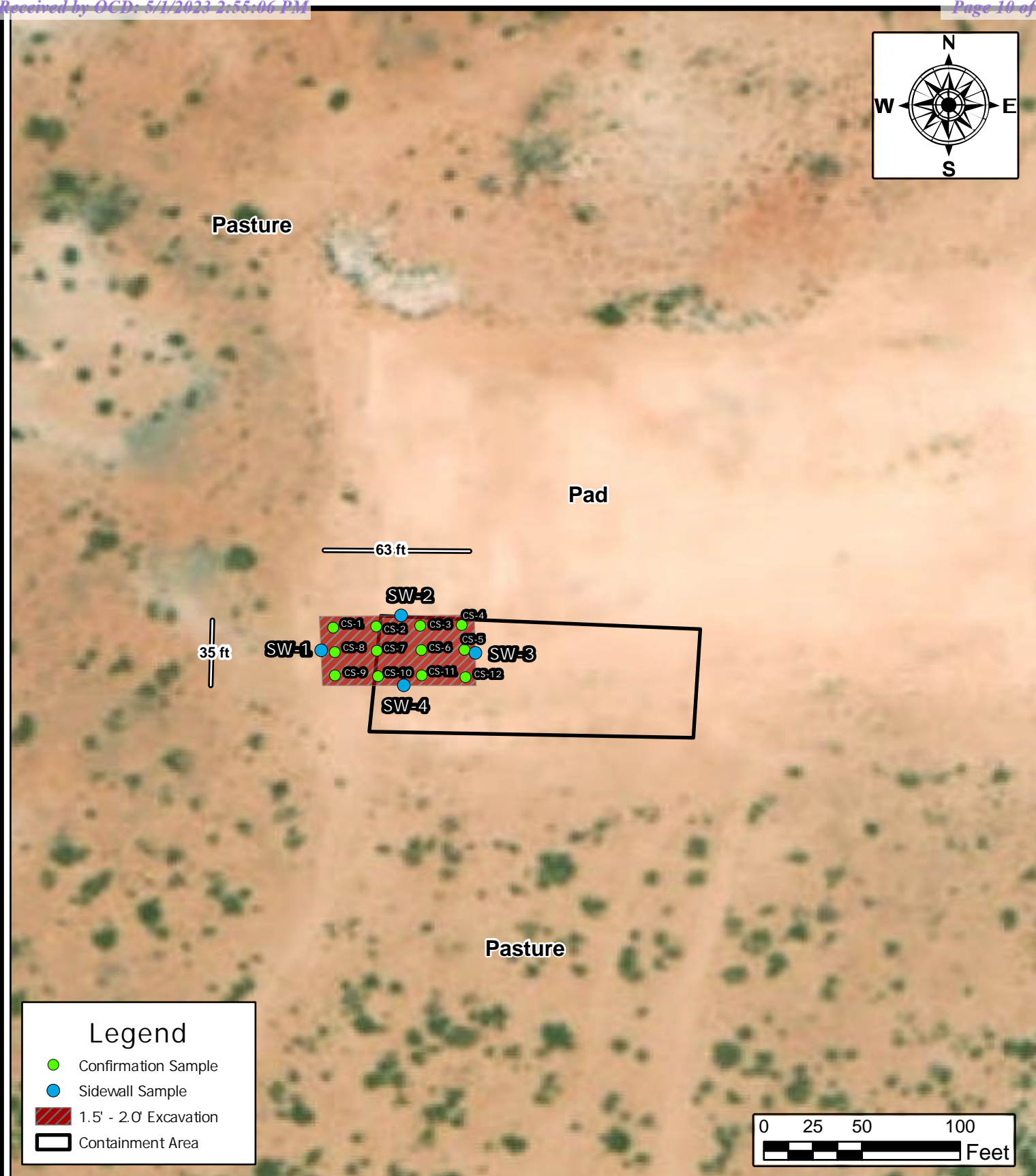
1. Base Image: Google Earth 2016
2. Map Projection: WGS84

DRAWING NUMBER:

**FIGURE 3**

SHEET NUMBER:

1 of 1



**EXCAVATION DEPTH MAP**  
**CIMAREX ENERGY CO. OF COLORADO**  
 CROW FLATS 16 STATE COM #002  
 EDDY COUNTY, NEW MEXICO  
 32.9171333, -104.1882935

SCALE: As Shown

Date: 4/17/2023



**Carmona Resources**  
 310 West Wall Street, Suite 500  
 Midland, Texas 79701

**NOTES:**

1. Base Image: ESRI Maps & Data 2023
2. Map Projection: WGS84

DRAWING NUMBER:

**FIGURE 4**

SHEET NUMBER:

1 of 1

## APPENDIX A

CARMONA RESOURCES



**Table 1**  
**Cimarex**  
**Crow Flats 16 State Com #002**  
**Eddy County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
<b>S-1</b>	3/28/2023	0-0.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	0.25'-0.5'	<10.0	<b>308</b>	<b>146</b>	<b>464</b>	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	0.5'-1.0'	<10.0	<b>997</b>	<b>381</b>	<b>1,378</b>	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.0'-1.5'	<10.0	<b>403</b>	<b>175</b>	<b>578</b>	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.5'-2.0'	<10.0	12.9	<10.0	12.9	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
<b>S-2</b>	3/28/2023	0-0.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
	"	0.25'-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	0.5'-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.0'-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
<b>S-3</b>	3/28/2023	0-0.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
	"	0.25'-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
	"	0.5'-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
	"	1.0'-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
	"	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
<b>S-4</b>	3/28/2023	0-0.25'	<10.0	18.0	<10.0	18.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	0.25'-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	0.5'-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
	"	1.0'-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
<b>S-5</b>	3/28/2023	0-0.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	0.25'-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	0.5'-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.0'-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
<b>S-6</b>	3/28/2023	0-0.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
	"	0.25'-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
	"	0.5'-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	480
	"	1.0'-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
<b>H-1</b>	3/28/2023	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
<b>H-2</b>	3/28/2023	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
<b>H-3</b>	3/28/2023	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
<b>H-4</b>	3/28/2023	0-0.5'	<10.0	<b>213</b>	67.9	<b>281</b>	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
<b>Regulatory Criteria<sup>A</sup></b>							<b>100 mg/kg</b>	<b>10 mg/kg</b>			<b>50 mg/kg</b>	<b>600 mg/kg</b>

Exceeds

(-) Not Analyzed

<sup>A</sup> – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(S) Soil Sample

(H) Horizontal Sample

**Table 2**  
**Cimarex**  
**Crow Flats 16 State Com #002**  
**Eddy County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
<b>CS-1</b>	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
<b>CS-2</b>	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
<b>CS-3</b>	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
<b>CS-4</b>	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
<b>CS-5</b>	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
<b>CS-6</b>	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
<b>CS-7</b>	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>720</b>
	4/12/2023	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
<b>CS-8</b>	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
<b>CS-9</b>	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
<b>CS-10</b>	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
<b>CS-11</b>	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	592
<b>CS-12</b>	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
<b>SW-1</b>	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
<b>SW-2</b>	4/10/2023	1.5'-2.0'	<10.0	17.4	<10.0	17.4	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
<b>SW-3</b>	4/10/2023	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
<b>Regulatory Criteria<sup>A</sup></b>							<b>100 mg/kg</b>	<b>10 mg/kg</b>			<b>50 mg/kg</b>	<b>600 mg/kg</b>

Removed

(-) Not Analyzed

<sup>A</sup> – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Sample

(SW) Sidewall Sample

## APPENDIX B

CARMONA RESOURCES



# PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado

## Photograph No. 1

**Facility:** Crow Flats 16 State Com #002

**County:** Eddy County, New Mexico

**Description:**

View Northeast, area of CS-1 through CS-12.



## Photograph No. 2

**Facility:** Crow Flats 16 State Com #002

**County:** Eddy County, New Mexico

**Description:**

View East, area of CS-1 through CS-12.



## Photograph No. 3

**Facility:** Crow Flats 16 State Com #002

**County:** Eddy County, New Mexico

**Description:**

View West, area of CS-1 through CS-12.



## APPENDIX C

CARMONA RESOURCES



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

## NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141  
Revised August 8, 2011

JUN 23 2016

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

RECEIVED

## Release Notification and Corrective Action

## OPERATOR

☒ Initial Report ☐ Final Report

Name of Company <i>Cimarex Energy</i>	Contact <i>Christine Alderman</i>
Address <i>600 N Marienfeld Ste 600 Midland TX</i>	Telephone No. <i>432-853-7059</i>
Facility Name <i>Crow Flats 16 State #2</i>	Facility Type <i>Production</i>

Surface Owner	Mineral Owner	API No. <i>30-015-35556</i>
---------------	---------------	-----------------------------

## LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	16	16S	28E	660	S	330	W	Eddy

Latitude *32.91713* Longitude *-104.18829*

## NATURE OF RELEASE

Type of Release <i>crude oil</i>	Volume of Release <i>165 bbls</i>	Volume Recovered <i>85 bbls</i>
Source of Release <i>steel tank</i>	Date and Hour of Occurrence <i>6/20/2016</i>	Date and Hour of Discovery <i>6/20/2016</i>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <i>Mike Bratcher/Heather Patterson</i>	
By Whom? <i>Christine Alderman</i>	Date and Hour <i>6/21/2016 1:08pm #via e-mail</i>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.

Describe Cause of Problem and Remedial Action Taken.

The crude oil stock tank developed a hole in the bottom of it.

Describe Area Affected and Cleanup Action Taken.

The tank battery is lined with plastic liner and thick gravel. While recovering fluids a tear was noticed in the liner.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Christine Alderman</i>	OIL CONSERVATION DIVISION	
Printed Name: <i>Christine Alderman</i>	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: <i>ESH Supervisor</i>	Approval Date: <i>6/23/16</i>	Expiration Date: <i>N/A</i>
E-mail Address: <i>calderman@cimarex.com</i>	Conditions of Approval: <b>Remediation per O.C.D. Rules &amp; Guidelines</b>	
Date: <i>6/23/2016</i> Phone: <i>432-853-7059</i>	Attached <input type="checkbox"/> <b>SUBMIT REMEDIATION PROPOSAL NO</b>	

\* Attach Additional Sheets If Necessary

LATER THAN: *7/27/16* *ARP-3755*

**Patterson, Heather, EMNRD**

---

**From:** Christine Alderman <calderman@cimarex.com>  
**Sent:** Thursday, June 23, 2016 10:57 AM  
**To:** Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD  
**Subject:** FW: Crow Flats 16 State #2 (API 30-015-35556)  
**Attachments:** 20160623105215806.pdf

Please see attached C-141.

Thank you,

Christine Alderman

Cimarex Energy Co.



ESH Supervisor – Permian Basin  
Midland TX  
Cell – 432.853.7059

---

**From:** Christine Alderman  
**Sent:** Tuesday, June 21, 2016 2:08 PM  
**To:** mike.bratcher@state.nm.us; Patterson, Heather, EMNRD (Heather.Patterson@state.nm.us)  
<Heather.Patterson@state.nm.us>  
**Cc:** Gloria Garza <ggarza@cimarex.com>  
**Subject:** Crow Flats 16 State #2 (API 30-015-35556)

Mike/Heather,

On June 20<sup>th</sup> we had a hole develop in one of our steel oil tanks at the above named location. Approximately 165 bbls were released into a plastic lined, gravel and dirt filled berm. We are still in the process of recovering fluids and I will send a C-141 and final recovery volume as soon as I have it.

Thank you!

Christine Alderman

Cimarex Energy Co.



ESH Supervisor – Permian Basin  
Midland TX  
Cell – 432.853.7059

**Patterson, Heather, EMNRD**

---

**From:** Christine Alderman <calderman@cimarex.com>  
**Sent:** Tuesday, June 21, 2016 1:08 PM  
**To:** Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD  
**Cc:** Gloria Garza  
**Subject:** Crow Flats 16 State #2 (API 30-015-35556)

Mike/Heather,

On June 20<sup>th</sup> we had a hole develop in one of our steel oil tanks at the above named location. Approximately 165 bbls were released into a plastic lined, gravel and dirt filled berm. We are still in the process of recovering fluids and I will send a C-141 and final recovery volume as soon as I have it.

Thank you!

Christine Alderman

Cimarex Energy Co.



ESH Supervisor – Permian Basin  
Midland TX  
Cell – 432.853.7059

Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature:  Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**Received by: Jocelyn Harimon Date: 05/01/2023

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 items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature:  Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: Jocelyn Harimon Date: 05/01/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

## Ashton Thielke

---

**From:** Ashton Thielke  
**Sent:** Wednesday, April 5, 2023 4:34 PM  
**To:** NMOCD Spill Notifications (OCD.Enviro@emnrd.nm.gov); OCD.Enviro@state.nm.us  
**Cc:** Laci Luig  
**Subject:** NAB1617627149 & nMLB1030934407 - Crow Flats 16 State #2 (Confirmation Sampling Notification)

This new email serves as 48 hr. notification for confirmation sampling on the above mentioned site. Sampling is scheduled to begin as early as 10:00 (MST) April 10, 2023, weather and soil conditions permitting. Incident ID: NAB1617627149 & nMLB1030934407  
Coordinates: 32.9171333,-104.1882935

Thank you,



**Ashton Thielke** | PBU - Environmental Consultant

T: 432.813.8988 | M: 281.753.5659 | [ashton.thielke@coterra.com](mailto:ashton.thielke@coterra.com) | [www.coterra.com](http://www.coterra.com)

Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

Coterra Energy Inc. is the result of the merger of Cimarex Energy Co. and Cabot Oil & Gas Corporation on October 1, 2021.

## APPENDIX D

CARMONA RESOURCES



**Nearest water well**

Cimarex Energy

**Legend**

- 0.50 Mile Radius
- 3.31 Miles
- 3.64 Miles
- 4.17 Miles
- CROW FLATS 16 STATE COM #002
- NMSEO Water Well
- USGS Water Well



Medium Karst

Cimarex Energy

Legend

- CROW FLATS 16 STATE COM #002
- High
- Low
- Medium

CROW FLATS 16 STATE COM #002



2 mi



# 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	Distance	Depth Well	Depth Water	Water Column
<a href="#">RA 12455 POD1</a>	RA	ED		2	1	2	36	16S	27E	571998	3638766	5325	200	55	145
<a href="#">RA 12299 POD1</a>	RA	ED		4	3	3	25	16S	28E	580832	3639215	5867	115	70	45

Average Depth to Water: **62 feet**

Minimum Depth: **55 feet**

Maximum Depth: **70 feet**

Record Count: 2

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 575898.42

**Northing (Y):** 3642392.2

**Radius:** 6000

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.

4/3/23 8:29 AM


Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
	RA 12455 POD1	2	1	2	36	16S	27E	571998	3638766		
<hr/>											
Driller License:		1058		Driller Company:			KEY'S DRILLING & PUMP SERVICE				
Driller Name:		KUEHN III, DONALD									
Drill Start Date:		09/12/2016		Drill Finish Date:			09/13/2016		Plug Date:		
Log File Date:		09/29/2016		PCW Rev Date:			Source:			Shallow	
Pump Type:		Pipe Discharge Size:			Estimated Yield:			17 GPM			
Casing Size:		4.50		Depth Well:			200 feet		Depth Water:		55 feet
<hr/>											
Water Bearing Stratifications:				Top	Bottom	Description					
				55	65	Sandstone/Gravel/Conglomerate					
				80	90	Other/Unknown					
				160	200	Other/Unknown					
<hr/>											
Casing Perforations:				Top	Bottom						
				160	200						

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.


4/3/23 8:29 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
RA 12299	POD1	4	3	3	25	16S	28E	580832	3639215 
<b>Driller License:</b> 1058		<b>Driller Company:</b> KEY'S DRILLING & PUMP SERVICE							
<b>Driller Name:</b> CLINTON KEY									
<b>Drill Start Date:</b> 09/21/2015		<b>Drill Finish Date:</b> 09/23/2015		<b>Plug Date:</b>					
<b>Log File Date:</b> 10/07/2015		<b>PCW Rev Date:</b>		<b>Source:</b> Shallow					
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>		<b>Estimated Yield:</b> 30 GPM					
<b>Casing Size:</b> 4.50		<b>Depth Well:</b> 115 feet		<b>Depth Water:</b> 70 feet					
<b>Water Bearing Stratifications:</b>		<b>Top</b>	<b>Bottom</b>	<b>Description</b>					
		70	80	Sandstone/Gravel/Conglomerate					
		80	90	Shale/Mudstone/Siltstone					
		105	115	Other/Unknown					
<b>Casing Perforations:</b>		<b>Top</b>	<b>Bottom</b>						
		95	115						

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.

4/3/23 8:32 AM

POINT OF DIVERSION SUMMARY



USGS Home  
Contact USGS  
Search USGS

## National Water Information System: Web Interface

USGS Water Resources

Data Category:  Geographic Area:

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

Important: [Next Generation Monitoring Location Page](#)

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 325638104072801

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

### USGS 325638104072801 16S.28E.12.22132

Eddy County, New Mexico

Latitude 32°56'38", Longitude 104°07'28" NAD27

Land-surface elevation 3,580 feet above NGVD29

The depth of the well is 54 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1994-03-09			D 62610		3532.94	NGVD29	1		Z	
1994-03-09			D 62611		3534.45	NAVD88	1		Z	
1994-03-09			D 72019	47.06			1		Z	
1999-01-25			D 62610		3531.65	NGVD29	1		S	USGS
1999-01-25			D 62611		3533.16	NAVD88	1		S	USGS
1999-01-25			D 72019	48.35			1		S	USGS
2004-02-27			D 62610		3530.52	NGVD29	1		S	USGS
2004-02-27			D 62611		3532.03	NAVD88	1		S	USGS
2004-02-27			D 72019	49.48			1		S	USGS
2006-01-26	22:05 UTC		m 62610		3531.65	NGVD29	1		S	NM001
2006-01-26	22:05 UTC		m 62611		3533.16	NAVD88	1		S	NM001
2006-01-26	22:05 UTC		m 72019	48.35			1		S	NM001
2007-02-07			D 62610		3531.28	NGVD29	1		S	NM001
2007-02-07			D 62611		3532.79	NAVD88	1		S	NM001

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
2007-02-07			D	72019	48.72			1	S	NM001
2008-01-23	21:05 UTC	m	62610		3531.66	NGVD29	1	S		NM001
2008-01-23	21:05 UTC	m	62611		3533.17	NAVD88	1	S		NM001
2008-01-23	21:05 UTC	m	72019	48.34			1	S		NM001
2009-01-13	16:45 UTC	m	62610		3530.82	NGVD29	1	S		NM001
2009-01-13	16:45 UTC	m	62611		3532.33	NAVD88	1	S		NM001
2009-01-13	16:45 UTC	m	72019	49.18			1	S		NM001

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	NM001	New Mexico State Engineers Office
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	A	Reported by another government agency (do not use "A" if reported by owner, use "O").
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)   [FOIA](#)   [Privacy](#)   [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

**Title: Groundwater for New Mexico: Water Levels**

**URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=325638104072801&agency_cd=USGS&format=html)**

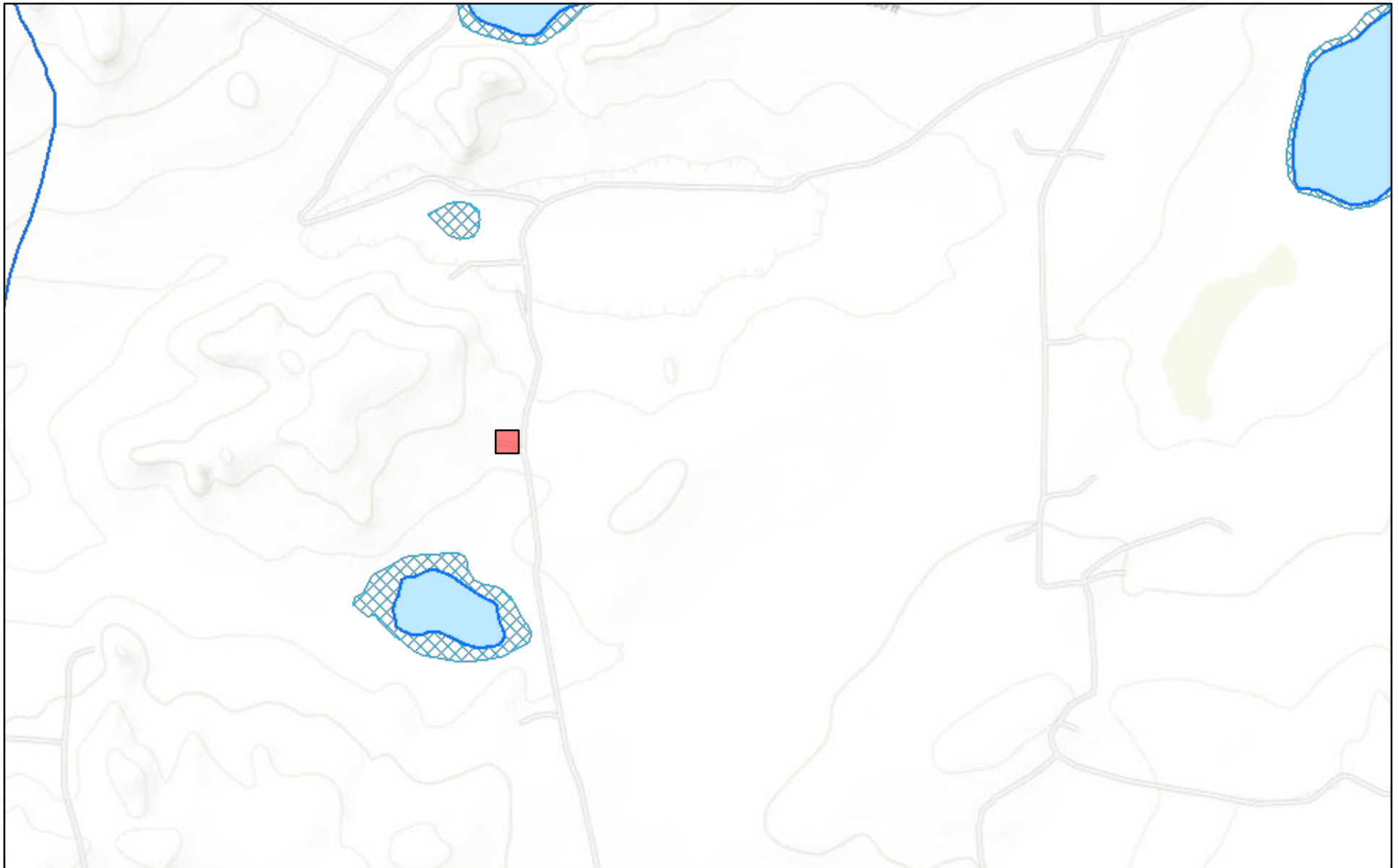
Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2023-04-03 10:35:19 EDT

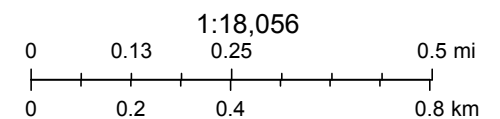
0.3 0.25 nadww02



# New Mexico NFHL Data



April 3, 2023



FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

[nmflood.org](http://nmflood.org) is made possible through a collaboration with NMDHSEM,

This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

## APPENDIX E

CARMONA RESOURCES





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

March 30, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: CROW FLATS 16 STATE COM #002

Enclosed are the results of analyses for samples received by the laboratory on 03/28/23 14:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1 (0-0.25') (H231409-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	1.88	93.9	2.00	13.4	
Toluene*	<0.050	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/29/2023	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1 (0.25'-0.5') (H231409-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2023	ND	1.88	93.9	2.00	13.4		
Toluene*	<0.050	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/29/2023	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	308	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	146	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1 (0.5'-1.0') (H231409-03)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2023	ND	1.88	93.9	2.00	13.4		
Toluene*	<0.050	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6		
Total BTX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/29/2023	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	997	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	381	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1 (1.0'-1.5') (H231409-04)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	1.88	93.9	2.00	13.4	
Toluene*	<0.050	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/29/2023	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	403	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	175	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1 (1.5'-2.0') (H231409-05)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2023	ND	1.88	93.9	2.00	13.4		
Toluene*	<0.050	0.050	03/29/2023	ND	1.93	96.5	2.00	13.2		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.89	94.7	2.00	13.2		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.98	99.6	6.00	12.6		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/29/2023	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	12.9	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2 (0-0.25') (H231409-06)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/29/2023	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2 (0.25'-0.5') (H231409-07)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31		
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/29/2023	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2 (0.5'-1.0') (H231409-08)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/29/2023	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 70.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2 (1.0'-1.5') (H231409-09)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/29/2023	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 66.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.7 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2 (1.5'-2.0') (H231409-10)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31		
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/29/2023	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 3 (0-0.25') (H231409-11)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/29/2023	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 71.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 3 (0.25'-0.5') (H231409-12)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEx	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/29/2023	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 60.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 3 (0.5'-1.0') (H231409-13)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/29/2023	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 3 (1.0'-1.5') (H231409-14)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31		
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/29/2023	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 71.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.6 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 3 (1.5'-2.0') (H231409-15)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31		
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 73.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 4 (0-0.25') (H231409-16)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEx	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	18.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 57.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.4 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 4 (0.25'-0.5') (H231409-17)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 63.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 4 (0.5'-1.0') (H231409-18)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 4 (1.0'-1.5') (H231409-19)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 67.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 5 (0-0.25') (H231409-20)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	169	84.4	200	26.2	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	181	90.7	200	21.4	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 64.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.2 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 5 (0.25'-0.5') (H231409-21)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 5 (0.5'-1.0') (H231409-22)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31		
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 5 (1.0'-1.5') (H231409-23)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 6 (0-0.25') (H231409-24)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEx	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 6 (0.25'-0.5') (H231409-25)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	3.31	
Toluene*	<0.050	0.050	03/29/2023	ND	2.01	100	2.00	0.556	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.02	101	2.00	0.650	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.13	102	6.00	0.174	
Total BTEx	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 6 (0.5'-1.0') (H231409-26)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2023	ND	1.89	94.4	2.00	3.90		
Toluene*	<0.050	0.050	03/29/2023	ND	1.86	93.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.74	87.0	2.00	2.28		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.05	84.1	6.00	1.83		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 6 (1.0'-1.5') (H231409-27)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	1.89	94.4	2.00	3.90	
Toluene*	<0.050	0.050	03/29/2023	ND	1.86	93.2	2.00	4.02	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.74	87.0	2.00	2.28	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.05	84.1	6.00	1.83	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 1 (0-0.5') (H231409-28)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	1.89	94.4	2.00	3.90	
Toluene*	<0.050	0.050	03/29/2023	ND	1.86	93.2	2.00	4.02	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.74	87.0	2.00	2.28	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.05	84.1	6.00	1.83	
Total BTEX	<0.300	0.300	03/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 2 (0-0.5') (H231409-29)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2023	ND	1.89	94.4	2.00	3.90		
Toluene*	<0.050	0.050	03/29/2023	ND	1.86	93.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.74	87.0	2.00	2.28		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.05	84.1	6.00	1.83		
Total BTEx	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 3 (0-0.5') (H231409-30)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2023	ND	1.89	94.4	2.00	3.90		
Toluene*	<0.050	0.050	03/29/2023	ND	1.86	93.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.74	87.0	2.00	2.28		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.05	84.1	6.00	1.83		
Total BTEx	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	179	89.3	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 70.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 03/28/2023  
 Reported: 03/30/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 03/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 4 (0-0.5') (H231409-31)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/29/2023	ND	1.89	94.4	2.00	3.90		
Toluene*	<0.050	0.050	03/29/2023	ND	1.86	93.2	2.00	4.02		
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	1.74	87.0	2.00	2.28		
Total Xylenes*	<0.150	0.150	03/29/2023	ND	5.05	84.1	6.00	1.83		
Total BTEX	<0.300	0.300	03/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 84.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/29/2023	ND	448	112	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	03/29/2023	ND	188	94.1	200	7.38	
DRO >C10-C28*	213	10.0	03/29/2023	ND	179	89.3	200	5.21	
EXT DRO >C28-C36	67.9	10.0	03/29/2023	ND					

Surrogate: 1-Chlorooctane 75.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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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A handwritten signature in black ink, appearing to read "C. D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager

Work Order No: HA31409

Page 1 of 4

Work Order Comments	
Program: UST/ST	RP <input type="checkbox"/> Crownfields <input type="checkbox"/> RC <input type="checkbox"/> <input type="checkbox"/> perfund <input type="checkbox"/>
State of Project:	
Reporting: Level II <input type="checkbox"/>	Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD <input type="checkbox"/>	ADAPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:		Crowd Flats 16 State Court #002		Turn Around		Pres. Code		ANALYSIS REQUEST										Preservative Codes							
Project Number:		2005		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush				None: NO		DI Water: H <sub>2</sub> O															
Project Location		Eddy County, New Mexico		Due Date:		Normal				Cool: Cool		MeOH: Me													
Sampler's Name:		GPJ								HCL: HC		HNO <sub>3</sub> : HN													
PO #:										H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>		NaOH: Na													
SAMPLE RECEIPT		Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		H <sub>3</sub> PO <sub>4</sub> : HP															
Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:				113		NaHSO <sub>4</sub> : NABIS															
Cooler Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor:				-0.6°C		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NASO <sub>3</sub>															
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:				38°C		Zn Acetate+NaOH: Zn															
Total Containers:				Corrected Temperature:				3.9°C		NaOH+Ascorbic Acid: SAPC															
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont												Sample Comments	
S-1 (0-0.25')		3/28/2023				X				G		1		X											
S-1 (0.25'-0.5')		3/28/2023				X				G		1		X											
S-1 (0.5'-1.0')		3/28/2023				X				G		1		X											
S-1 (1.0'-1.5')		3/28/2023				X				G		1		X											
S-1 (1.5'-2.0')		3/28/2023				X				G		1		X											
S-2 (0-0.25')		3/28/2023				X				G		1		X											
S-2 (0.25'-0.5')		3/28/2023				X				G		1		X											
S-2 (0.5'-1.0')		3/28/2023				X				G		1		X											
S-2 (1.0'-1.5')		3/28/2023				X				G		1		X											
S-2 (1.5'-2.0')		3/28/2023				X				G		1		X											

Comments:

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

## Chain of Custody

**Work Order No.:**

7231409

Page 2 of 4

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Crownfields ☐ RC ☐ \$perfund ☐



State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADAPT ☐ Other:

[illegible][illegible]

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	3/28/23 1447		

## Chain of Custody

Work Order No: H231409



Page 36 of 37

Project Manager:	Ashtic Thielke	Bill to: (if different)	Laci Lung
Company Name:	Carmona Resources	Company Name:	Cinatrex Energy
Address:	310 W Wall St Ste 415	Address:	600 N Martenfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.lung@coterra.com ashton.thielke@coterra.com

Work Order Comments	
Program: UST/PT	<input type="checkbox"/> PRP <input type="checkbox"/> rownfields <input type="checkbox"/> RC <input type="checkbox"/> <input type="checkbox"/> perfund
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV
Deliverables: EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	Crow Flats 16 State Com #002	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	2005	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush														None: NO	DI Water: H <sub>2</sub> O	
Project Location:	Eddy County, New Mexico	Due Date:	Normal														Cool: Cool	MeOH: Me	
Sampler's Name:	GPJ																HCL: HC	HNO <sub>3</sub> : HN	
PO #:																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na	
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H <sub>3</sub> PO <sub>4</sub> : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:																NaHSO <sub>4</sub> : NABIS	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:																Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:																Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature:																NaOH+Ascorbic Acid: S APC	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments
S-5 (0.25'-0.5')	3/28/2023		X		G	1	X	X	X										
S-5 (0.5'-1.0')	3/28/2023		X		G	1	X	X	X										
S-5 (1.0'-1.5')	3/28/2023		X		G	1	X	X	X										
S-6 (0.0-0.25')	3/28/2023		X		G	1	X	X	X										
S-6 (0.25'-0.5')	3/28/2023		X		G	1	X	X	X										
S-6 (0.5'-1.0')	3/28/2023		X		G	1	X	X	X										
S-6 (1.0'-1.5')	3/28/2023		X		G	1	X	X	X										
H-1 (0.0-0.5')	3/28/2023		X		G	1	X	X	X										
H-2 (0.0-0.5')	3/28/2023		X		G	1	X	X	X										
H-3 (0.0-0.5')	3/28/2023		X		G	1	X	X	X										

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	3/28/23 14:17		

## Chain of Custody

Work Order No: HA21407



Page 4 of 4

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luing
Company Name:	Carmoma Resources	Company Name:	Cimarax Energy
Address:	310 W Wall St Ste 415	Address:	600 N Mainfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	<a href="mailto:laci.luing@colterra.com">laci.luing@colterra.com</a> <a href="mailto:ashton.thielke@colterra.com">ashton.thielke@colterra.com</a>

Work Order Comments	
Program: UST/ST <input type="checkbox"/> RP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: <input type="checkbox"/>	

[illegible][illegible]

Comments:

Comments:			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	3/28/23 1447		



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

April 12, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: CROW FLATS 16 STATE COM #002

Enclosed are the results of analyses for samples received by the laboratory on 04/11/23 8:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 1 (1.5'-2') (H231684-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2023	ND	1.87	93.6	2.00	6.12	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72	
Total BTX	<0.300	0.300	04/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/11/2023	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 2 (1.5'-2') (H231684-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/11/2023	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 3 (1.5'-2') (H231684-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/11/2023	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 4 (1.5'-2') (H231684-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/11/2023	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 5 (1.5'-2') (H231684-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2023	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 6 (1.5'-2') (H231684-06)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2023	ND	1.87	93.6	2.00	6.12	
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95	
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88	
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72	
Total BTEX	<0.300	0.300	04/11/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/11/2023	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 7 (1.5'-2') (H231684-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 8 (1.5'-2') (H231684-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 9 (1.5'-2') (H231684-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 10 (1.5'-2') (H231684-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 11 (1.5'-2') (H231684-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 12 (1.5'-2') (H231684-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 1 (1.5'-2') (H231684-13)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 2 (1.5'-2') (H231684-14)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	17.4	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 3 (1.5'-2') (H231684-15)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTEx	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/11/2023  
 Reported: 04/12/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 4 (1.5'-2') (H231684-16)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/11/2023	ND	1.87	93.6	2.00	6.12		
Toluene*	<0.050	0.050	04/11/2023	ND	1.92	96.2	2.00	5.95		
Ethylbenzene*	<0.050	0.050	04/11/2023	ND	1.97	98.6	2.00	5.88		
Total Xylenes*	<0.150	0.150	04/11/2023	ND	6.10	102	6.00	4.72		
Total BTEX	<0.300	0.300	04/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/11/2023	ND	432	108	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	04/11/2023	ND	168	83.8	200	6.02	
DRO >C10-C28*	<10.0	10.0	04/11/2023	ND	164	81.9	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	04/11/2023	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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Celey D. Keene, Lab Director/Quality Manager

## Chain of Custody

Work Order No: 112311084

Page 19 of 20

Project Manager: Ashton Thielke		Bill to: (if different)		Laci Luig	
Company Name: Carmona Resources		Company Name:		Cimarex Energy	
Address: 310 W Wall St Ste 500		Address:		600 N Marnefield St, Suite 600	
City, State ZIP: Midland, TX 79701		City, State ZIP:		Midland, TX 79701	
Phone: 432-813-8988		Email: laci.luig@cimarex.com		ashton.thielke@cimarex.com	

Project Name: Crow Flats 16 State Com #002		Turn Around		Pres. Code	
Project Number: 2005		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			
Project Location: Eddy County, New Mexico		Due Date: 24hr			
Sampler's Name: GPJ					
PO #:					

<b>SAMPLE RECEIPT</b>		Temp Blank: Yes (No) <input checked="" type="checkbox"/>		Wet Ice: Yes (No) <input checked="" type="checkbox"/>	
Received Intact: Yes (No) <input checked="" type="checkbox"/>		Thermometer ID: 113		-0.0°C	
Cooler Custody Seals: Yes (No) <input checked="" type="checkbox"/>		Correction Factor: 4.4°C		3.8°C	
Sample Custody Seals: Yes (No) <input checked="" type="checkbox"/>		Temperature Reading: 3.8°C			
Total Containers:		Corrected Temperature:			

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	ANALYSIS REQUEST												Preservative Codes	
CS-1 (1.5'-2')	4/10/2023		X		C	1	X	X	X									None: NO	DI Water: H <sub>2</sub> O	
CS-2 (1.5'-2')	4/10/2023		X		C	1	X	X	X									Cool: Cool	MeOH: Me	
CS-3 (1.5'-2')	4/10/2023		X		C	1	X	X	X									HCL: HC	HNO <sub>3</sub> : HN	
CS-4 (1.5'-2')	4/10/2023		X		C	1	X	X	X									H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na	
CS-5 (1.5'-2')	4/10/2023		X		C	1	X	X	X									H <sub>3</sub> PO <sub>4</sub> : HP		
CS-6 (1.5'-2')	4/10/2023		X		C	1	X	X	X									NaHSO <sub>4</sub> : NABIS		
CS-7 (1.5'-2')	4/10/2023		X		C	1	X	X	X									Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>		
CS-8 (1.5'-2')	4/10/2023		X		C	1	X	X	X									Zn Acetate+NaOH: Zn		
CS-9 (1.5'-2')	4/10/2023		X		C	1	X	X	X									NaOH+Ascorbic Acid: SAPC		
CS-10 (1.5'-2')	4/10/2023		X		C	1	X	X	X											

Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
		4/11/23 0821					

Chain of Custody

Work Order No: 42311081

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarx Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marlenfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com ashton.thielke@coterra.com

Page 2 of 2	
<b>Work Order Comments</b> Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Rowfields <input type="checkbox"/> RC <input type="checkbox"/> <input type="checkbox"/> perfund <input type="checkbox"/> State of Project: <input type="checkbox"/> Reporting Level: I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: <input type="checkbox"/>	

Project Name:		Crow Flats 16 State Com #002		Turn Around		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		Due Date: 24hr Press. Code:							
Project Number:		2005													
Project Location:		Eddy County, New Mexico													
Sampler's Name:		GPJ													
PO #:															
<b>SAMPLE RECEIPT</b> Received Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Cooler Custody Seals: Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Sample Custody Seals: Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Total Containers: 382		Temp Blank: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Thermometer ID: 113 Correction Factor: -0.02 Temperature Reading: 4.42 Corrected Temperature: 382		Wet Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Parameters:											
<b>Sample Identification</b> CS-11 (1.5'-2') CS-12 (1.5'-2') SW-1 (1.5'-2') SW-2 (1.5'-2') SW-3 (1.5'-2') SW-4 (1.5'-2')		Date 4/10/2023 4/10/2023 4/10/2023 4/10/2023 4/10/2023 4/10/2023		Time X X X X X X		Soil X X X X X X		Water Grab/Comp C C C C C C		# of Cont 1 1 1 1 1 1		ANALYSIS REQUEST BTEX 8021B TPH 8015M ( GRO + DRO + MRO) Chloride 4500		Preservative Codes None: NO Cool: Cool HCL: HC H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
Comments: Relinquished by: (Signature)		Date/Time 4/11/23 08:31		Received by: (Signature) Skodisquerry		Date/Time									



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April 13, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: CROW FLATS 16 STATE COM #002

Enclosed are the results of analyses for samples received by the laboratory on 04/12/23 15:29.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

CARMONA RESOURCES  
 ASHTON THIELKE  
 310 W WALL ST SUITE 415  
 MIDLAND TX, 79701  
 Fax To:

Received: 04/12/2023  
 Reported: 04/13/2023  
 Project Name: CROW FLATS 16 STATE COM #002  
 Project Number: 2005  
 Project Location: CIMAREX - EDDY CO, NEW MEXICO

Sampling Date: 04/12/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 7 (2') (H231748-01)**

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2023	ND	1.93	96.3	2.00	9.25	QR-03
Toluene*	<0.050	0.050	04/13/2023	ND	2.04	102	2.00	8.99	QR-03
Ethylbenzene*	<0.050	0.050	04/13/2023	ND	2.14	107	2.00	8.82	QR-03
Total Xylenes*	<0.150	0.150	04/13/2023	ND	6.55	109	6.00	7.82	QR-03
Total BTX	<0.300	0.300	04/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/13/2023	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	04/13/2023	ND	202	101	200	3.53	
DRO >C10-C28*	<10.0	10.0	04/13/2023	ND	200	100	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	04/13/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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Celey D. Keene, Lab Director/Quality Manager

## Chain of Custody

Work Order No: A23174

Page 4 of 4

[illegible]

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**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  
**District IV**  
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 212309

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd, Ste 300N Midland, TX 79706	OGRID: 162683
	Action Number: 212309
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAB1617627149 CROW FLATS 16 STATE COM #002, thank you. This closure is approved.	9/13/2023