



## SITE INFORMATION

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**Closure Report**  
**Hornsby 35 Federal Com #003H**  
**Incident ID: NAB1530140875**  
**Eddy County, New Mexico**  
**Unit E Sec 35 T26S R27E**  
**32.0005684°, -104.1651154°**

**Point of Release:**  
**Poly line ruptured due to pressure.**  
**Release Date: 07/26/2015**  
**Volume Released: 59 Barrels of Produced Water**  
**Volume Recovered: 55 Barrels of Produced Water**

**CARMONA RESOURCES**



**Prepared for:**  
**Cimarex Energy Co.**  
**6001 Deauville Blvd.**  
**Suite 300**  
**Midland, Texas 79706**

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

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June 16, 2023

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

**Re: Closure Report**  
**Hornsby 35 Federal Com #003H**  
**Incident ID: NAB1530140875**  
**Cimarex Energy Co.**  
**Site Location: Unit E, S35, T26S, R27E**  
**(Lat 32.0005684°, Long -104.1651154°)**  
**Eddy County, New Mexico**

Mr. Bratcher:

On behalf of Cimarex Energy Co. (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for the Hornsby 35 Federal Com #003H. The site is located at 32.0005684°, -104.1651154° within Unit E, S35, T26S, R27E, 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 release was discovered on July 26, 2015, caused by an over pressured poly line that failed. It resulted in approximately fifty-nine (59) barrels of produced water, and fifty-five (55) barrels of produced water 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 high 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 1.64 miles Northwest of the site in S22, T26S, R27E and was drilled in 2002. The well has a reported depth to groundwater of 50' 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 April 4, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, six (6) soil samples and five (5) 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 May 15, 2023, and May 17, 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 May 11, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 was excavated to a depth of 1.5' bgs. The area of S-3 was excavated to a depth of 2.0' bgs. A total of six (6) confirmation floor samples (CS-1 through CS-6) and eight (8) sidewall samples (SW-1 through SW-8) 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 65 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**

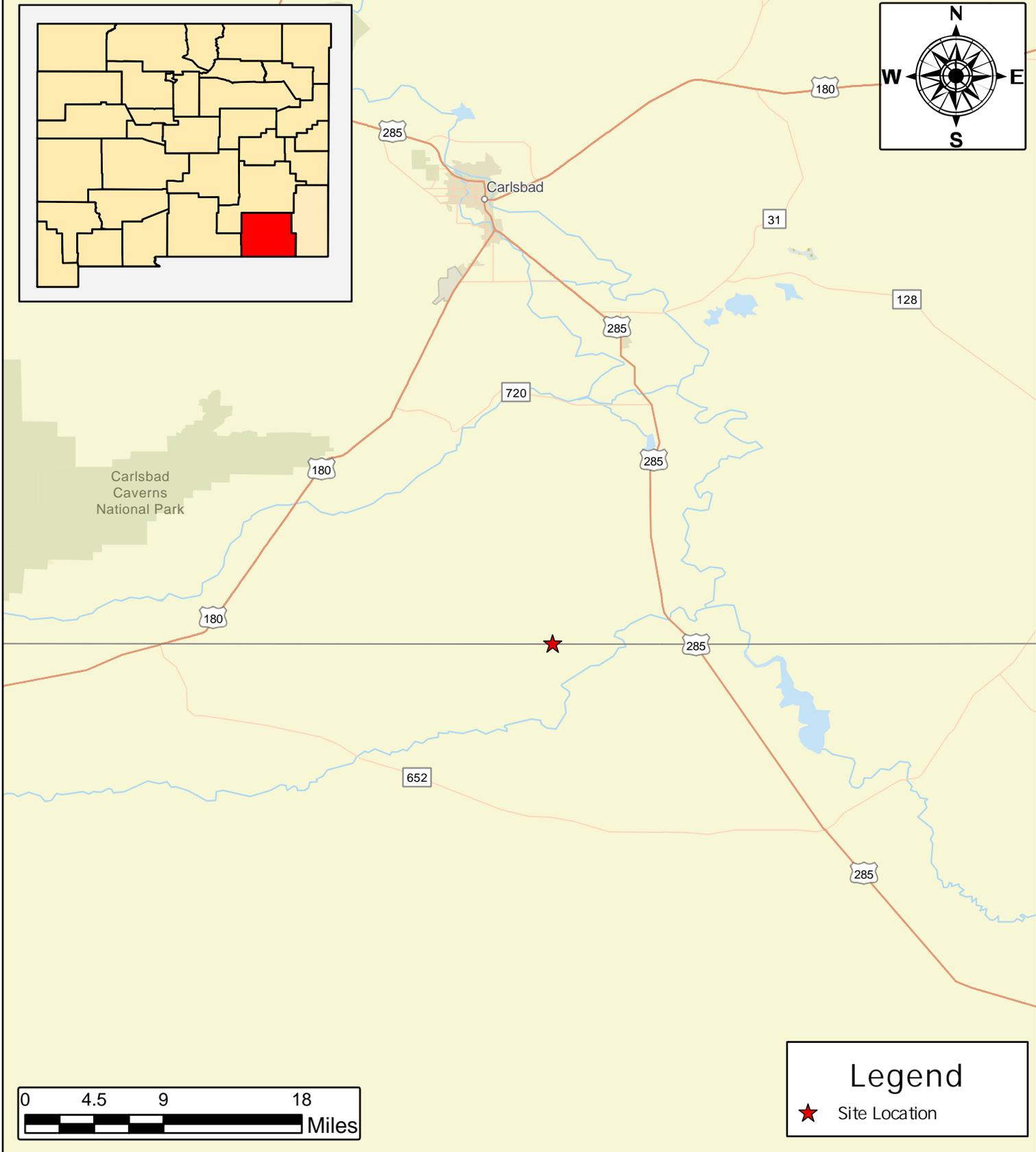
Ashton Thielke  
Sr. Project Manager

Conner Moehring  
Sr. Project Manager

# FIGURES

CARMONA RESOURCES





**Legend**

★ Site Location

**OVERVIEW MAP**  
**CIMAREX ENERGY CO.**  
 HORNSBY 35 FEDERAL COM #003H  
 EDDY COUNTY, NEW MEXICO  
 32.0005684,-104.1651154

SCALE: As Shown      Date: 5/25/2023

CARMONA RESOURCES 

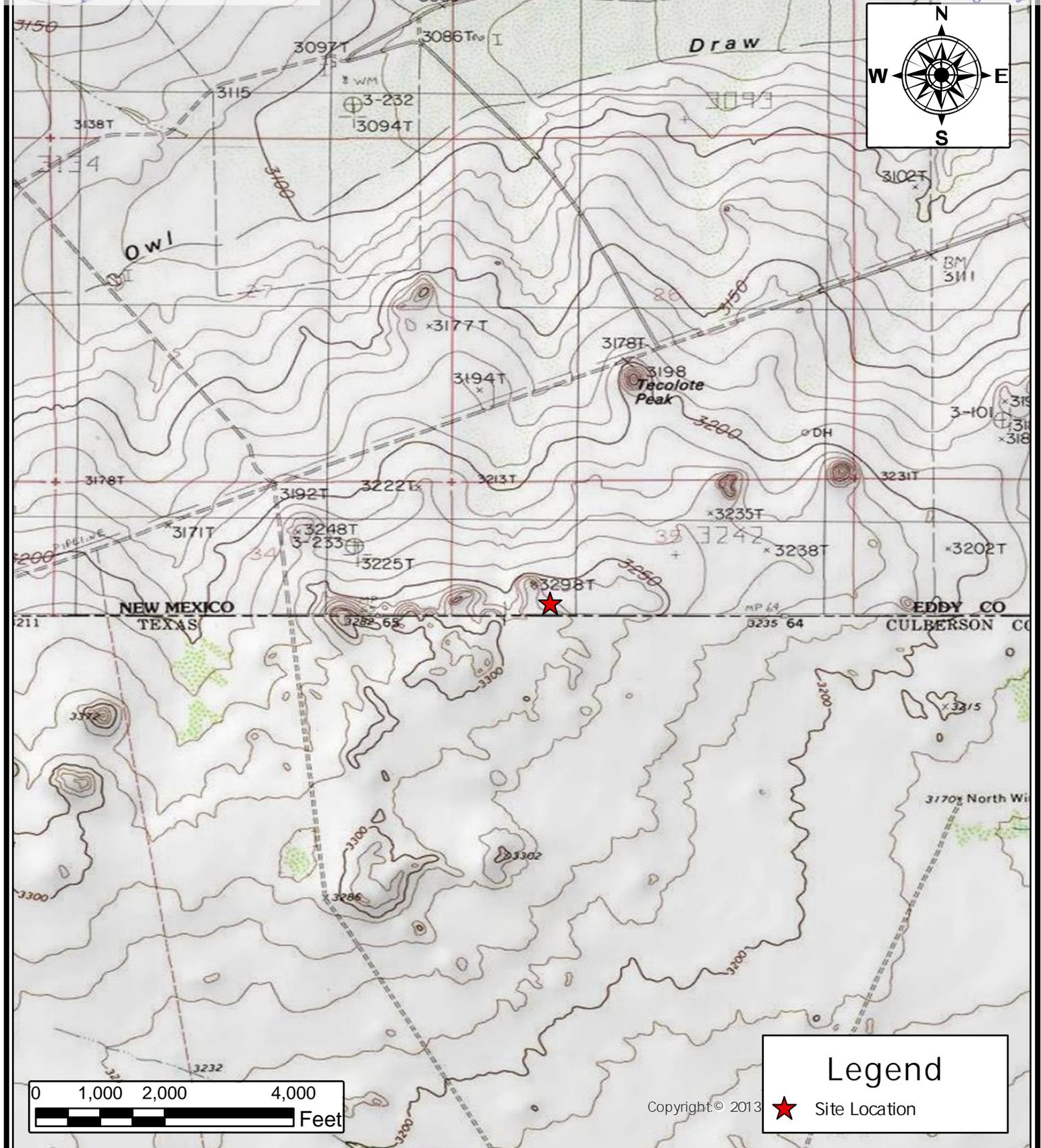
**Carmona Resources**  
 310 West Wall Street, Suite 500  
 Midland, Texas 79701

**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.**  
 HORNSBY 35 FEDERAL COM #003H  
 EDDY COUNTY, NEW MEXICO  
 32.0005684,-104.1651154

SCALE: As Shown      Date: 5/25/2023

CARMONA RESOURCES 

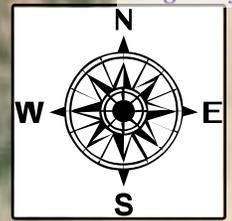
**Carmona Resources**  
 310 West Wall Street, Suite 500  
 Midland, Texas 79701

**NOTES:**

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

DRAWING NUMBER:  
**FIGURE 2**

SHEET NUMBER:  
 1 of 1



Pasture

195.ft

20 ft



Pad

Lease Road

### Legend

- Horizontals
- Sample Point
- Buried Electric Line
- - - Buried FlowLine
- Buried Water Line
- Surface Steel Line
- ▨ Area of Concern
- ▭ Riser



**SAMPLE LOCATION MAP**  
**CIMAREX ENERGY CO.**  
 HORNSBY 35 FEDERAL COM #003H  
 EDDY COUNTY, NEW MEXICO  
 32.0005684,-104.1651154

SCALE: As Shown

Date: 5/25/2023



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

### NOTES:

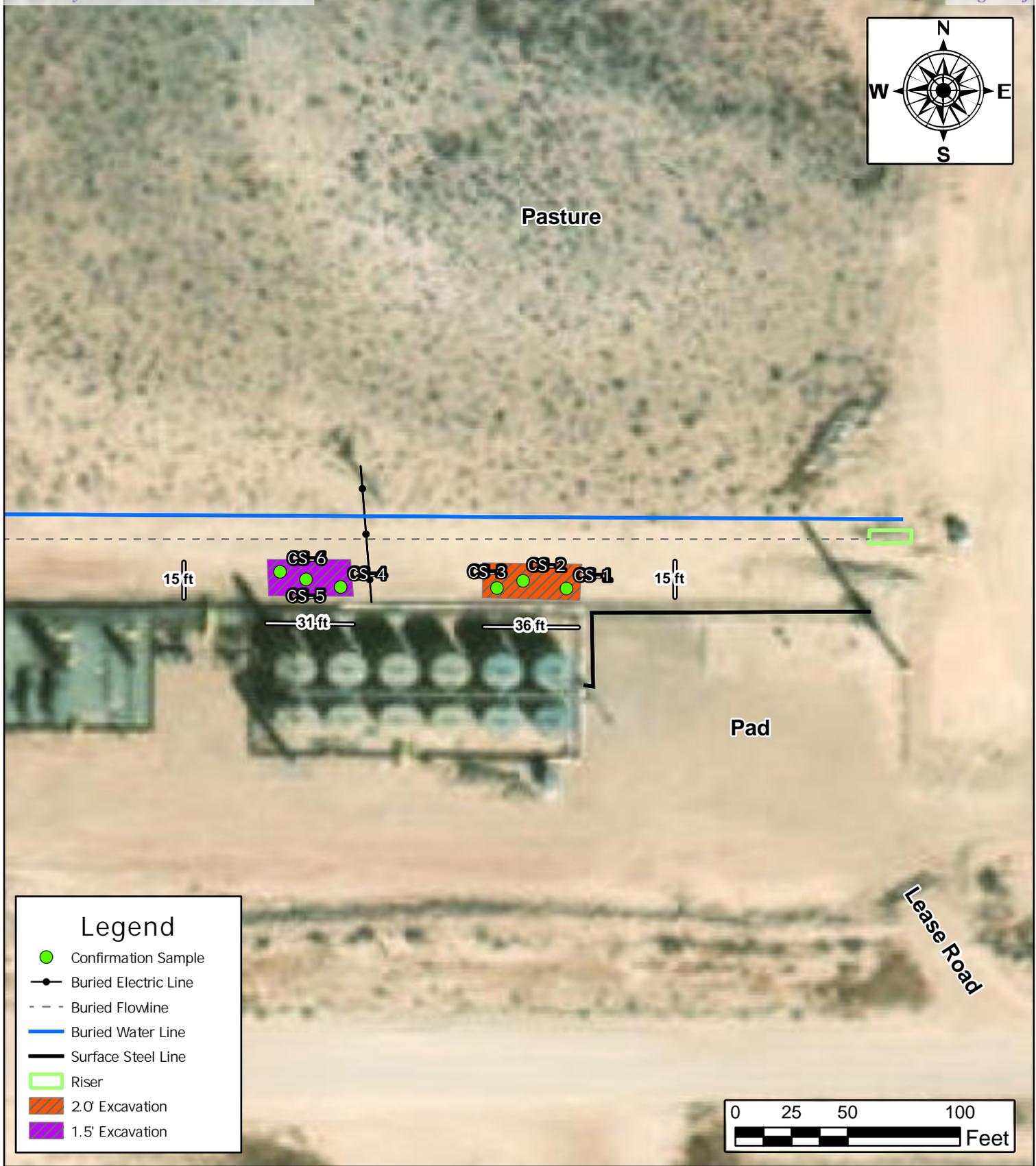
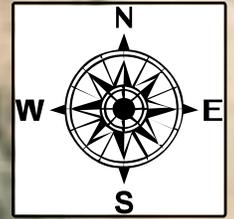
1. Base Image: ESRI Maps & Data 2023
2. Map Projection: WGS84

DRAWING NUMBER:

**FIGURE 3**

SHEET NUMBER:

1 of 1



**Legend**

- Confirmation Sample
- Buried Electric Line
- Buried Flowline
- Buried Water Line
- Surface Steel Line
- Riser
- 2.0' Excavation
- 1.5' Excavation



**EXCAVATION DEPTH MAP**  
**CIMAREX ENERGY CO.**  
 HORNSBY 35 FEDERAL COM #003H  
 EDDY COUNTY, NEW MEXICO  
 32.0005684,-104.1651154

SCALE: As Shown      Date: 5/25/2023

CARMONA RESOURCES

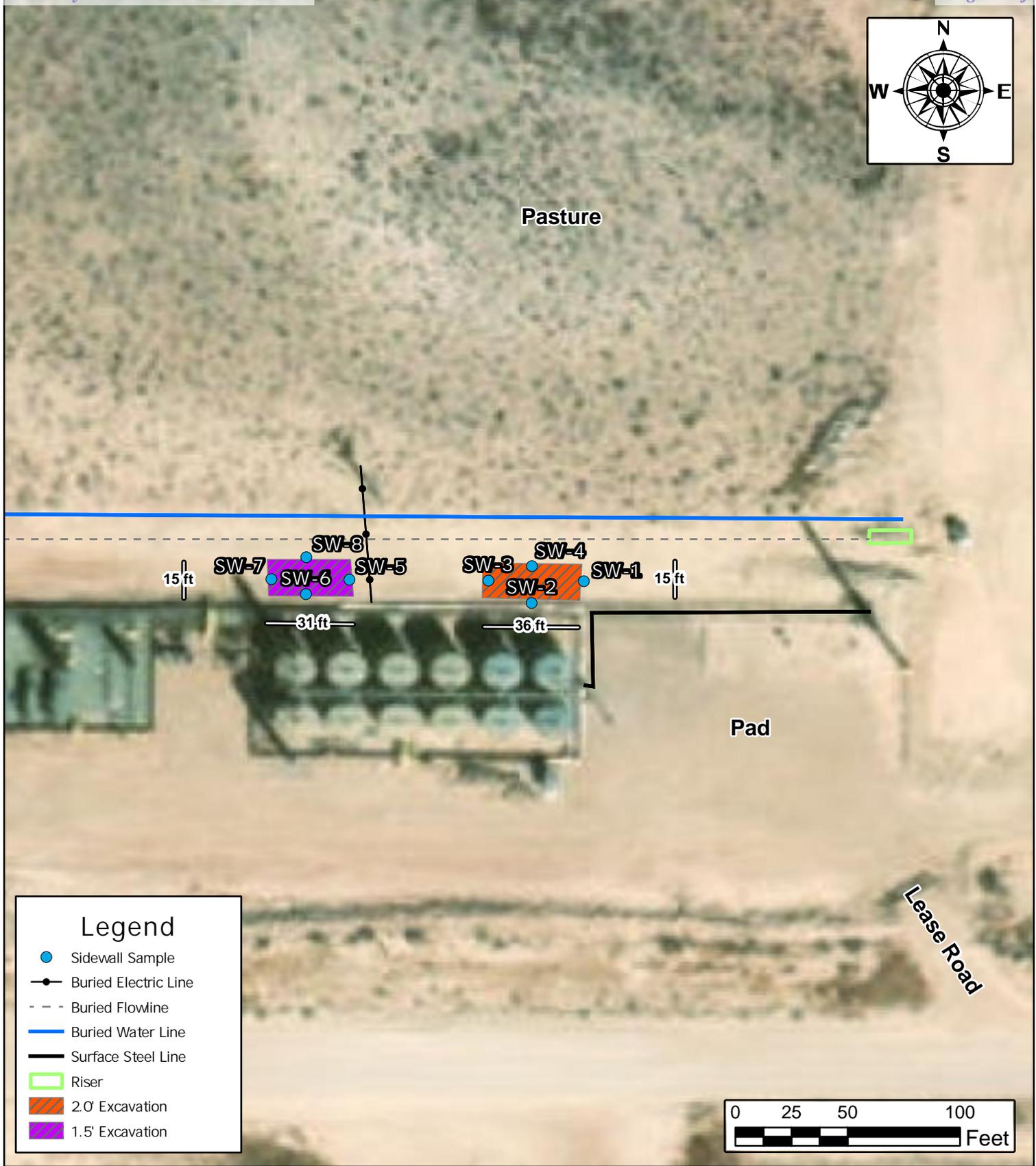
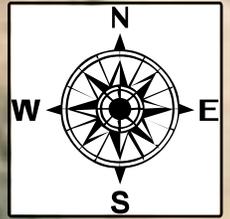
**Carmona Resources**  
 310 West Wall Street, Suite 500  
 Midland, Texas 79701

**NOTES:**

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

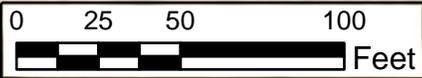
DRAWING NUMBER:  
**FIGURE 4A**

SHEET NUMBER:  
 1 of 2



**Legend**

- Sidewall Sample
- Buried Electric Line
- Buried Flowline
- Buried Water Line
- Surface Steel Line
- Riser
- 2.0' Excavation
- 1.5' Excavation



**EXCAVATION DEPTH MAP**  
**CIMAREX ENERGY CO.**  
 HORNSBY 35 FEDERAL COM #003H  
 EDDY COUNTY, NEW MEXICO  
 32.0005684,-104.1651154

SCALE: As Shown      Date: 5/25/2023

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 4B**

SHEET NUMBER:  
 2 of 2

# APPENDIX A

CARMONA RESOURCES



**Table 1**  
**Cimarex**  
**Hornsby 35 Federal Com #003H**  
**Eddy County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,540
	"	0.5-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	640
	"	1.0-1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	304
S-2	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
	"	0.5-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
S-3	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	912
	"	0.5-1.0	<10.0	44.4	<10.0	44.4	<0.050	<0.050	<0.050	<0.150	<0.300	1,460
	"	1.0-1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	880
	"	1.5-2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	400
S-4	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
	"	0.5-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
S-5	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
	"	0.5-1.0	<10.0	15.2	<10.0	15.2	<0.050	<0.050	<0.050	<0.150	<0.300	320
S-6	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	0.5-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
H-1	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
H-2	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
H-3	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
H-4	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
H-5	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
<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>

(-) 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

Removed

**Table 2**  
**Cimarex**  
**Hornsby 35 Federal Com #003H**  
**Eddy County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	5/16/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	464
CS-2	5/16/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
CS-3	5/16/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	384
CS-4	5/16/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	544
CS-5	5/16/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
CS-6	5/16/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
SW-1	5/16/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368
SW-2	5/16/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	608
	5/17/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
SW-3	5/16/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
SW-4	5/16/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-5	5/16/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	544
SW-6	5/16/2023	1.5	<10.0	11.5	<10.0	11.5	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-7	5/16/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368
SW-8	5/16/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	576
<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>

(-) Not Analyzed

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

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Floor Sample

(SW) Sidewall Sample

 Removed

## APPENDIX B

CARMONA RESOURCES



# PHOTOGRAPHIC LOG

Cimarex Energy Co.

## Photograph No. 1

**Facility:** Hornsby 35 Federal Com #003H

**County:** Eddy County, New Mexico

**Description:**

View Northeast, area of CS-1 through CS-3.



## Photograph No. 2

**Facility:** Hornsby 35 Federal Com #003H

**County:** Eddy County, New Mexico

**Description:**

View Southwest, area of CS-1 through CS-3.



## Photograph No. 3

**Facility:** Hornsby 35 Federal Com #003H

**County:** Eddy County, New Mexico

**Description:**

View Southeast, area of CS-4 through CS-6.



## 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

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**  Initial Report  Final Report

*NA B1530140875*

Name of Company Cimarex Energy <i>215029</i>	Contact Christine Alderman
Address 600 N Marienfeld Ste 600 Midland TX	Telephone No. 432-853-7059
Facility Name Hornsby 35 Fed 3H	Facility Type production
Surface Owner Federal	Mineral Owner
API No. 30-015-42208	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	35	26S	27E	210	S	1310	W	Eddy

Latitude 32.0005684 Longitude -104.1651154

**NATURE OF RELEASE**

Type of Release Produced water	Volume of Release 59 bbls	Volume Recovered 55 bbls
Source of Release 4" poly flow line	Date and Hour of Occurrence 7/26/15	Date and Hour of Discovery 7/26/15
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/Shelly Tucker	
By Whom? Christine Alderman	Date and Hour 7/27/15 1:33 pm	
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.* NA		
Describe Cause of Problem and Remedial Action Taken.* Poly line ruptured due to pressure. 45 bbls were contained within a lined containment and were recovered. 14 bbls were on location pad just outside of containment and 10 bbls were recovered.		
Describe Area Affected and Cleanup Action Taken.* Environmental consulting company (Diversified) will be on location to sample and develop work plan.		

**NM OIL CONSERVATION**  
ARTESIA DISTRICT  
OCT 27 2015

RECEIVED

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:	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Christine Alderman	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: ESH Supervisor	Approval Date: 10/28/15	Expiration Date: N/A
E-mail Address: calderman@cimarex.com	Conditions of Approval: <b>REMEDIAL PROPOSAL</b> Attached <input type="checkbox"/>	
Date: 7/30/15 Phone: 432-853-7059	<b>SUBMIT REMEDIATION PROPOSAL NO</b> LATER THAN: 11/20/15	

\* Attach Additional Sheets If Necessary

2RP-3359

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

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:     *dac. Lj*     Date: \_\_\_\_\_

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

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	
Facility ID	
Application ID	

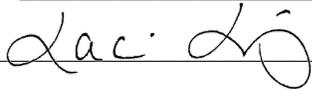
## Closure

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

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: 8/4/2023  
 Printed Name: Brittany Hall Title: Environmental Specialist

**Ashton Thielke**

---

**From:** Enviro, OCD, EMNRD <OCD.Enviro@emnrn.nm.gov>  
**Sent:** Thursday, May 11, 2023 11:55 AM  
**To:** Ashton Thielke  
**Cc:** Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD  
**Subject:** RE: [EXTERNAL] NAB1530140875 - HORNSBY 35 FEDERAL COM #003H (07.26.2015) - Confirmation Sampling Notificaiton

**WARNING:** This email originated from outside of Coterra Energy. Do not click links or open attachments unless you recognize the sender, are expecting the content and know it is safe.

Ashton,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JH

**Jocelyn Harimon** • Environmental Specialist  
Environmental Bureau  
EMNRD - Oil Conservation Division  
1220 South St. Francis Drive | Santa Fe, NM 87505  
(505)469-2821 | [Jocelyn.Harimon@emnrn.nm.gov](mailto:Jocelyn.Harimon@emnrn.nm.gov)  
[http:// www.emnrn.nm.gov](http://www.emnrn.nm.gov)



---

**From:** Ashton Thielke <Ashton.Thielke@coterra.com>  
**Sent:** Thursday, May 11, 2023 9:39 AM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrn.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrn.nm.gov>  
**Cc:** Laci Luig <Laci.Luig@coterra.com>  
**Subject:** [EXTERNAL] NAB1530140875 - HORNSBY 35 FEDERAL COM #003H (07.26.2015) - Confirmation Sampling Notificaiton

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

This new email serves as 48+ hour notification for confirmation sampling on the HORNSBY 35 FEDERAL COM #003H. Sampling is scheduled to begin as early as 11:00am (MST) Monday, May 15<sup>th</sup>, weather and soil conditions permitting. Carmona Resources will be on site to collect the confirmation samples.

Incident ID: NAB1530140875  
Coordinates: 32.000470, -104.163724

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

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## APPENDIX D

CARMONA RESOURCES

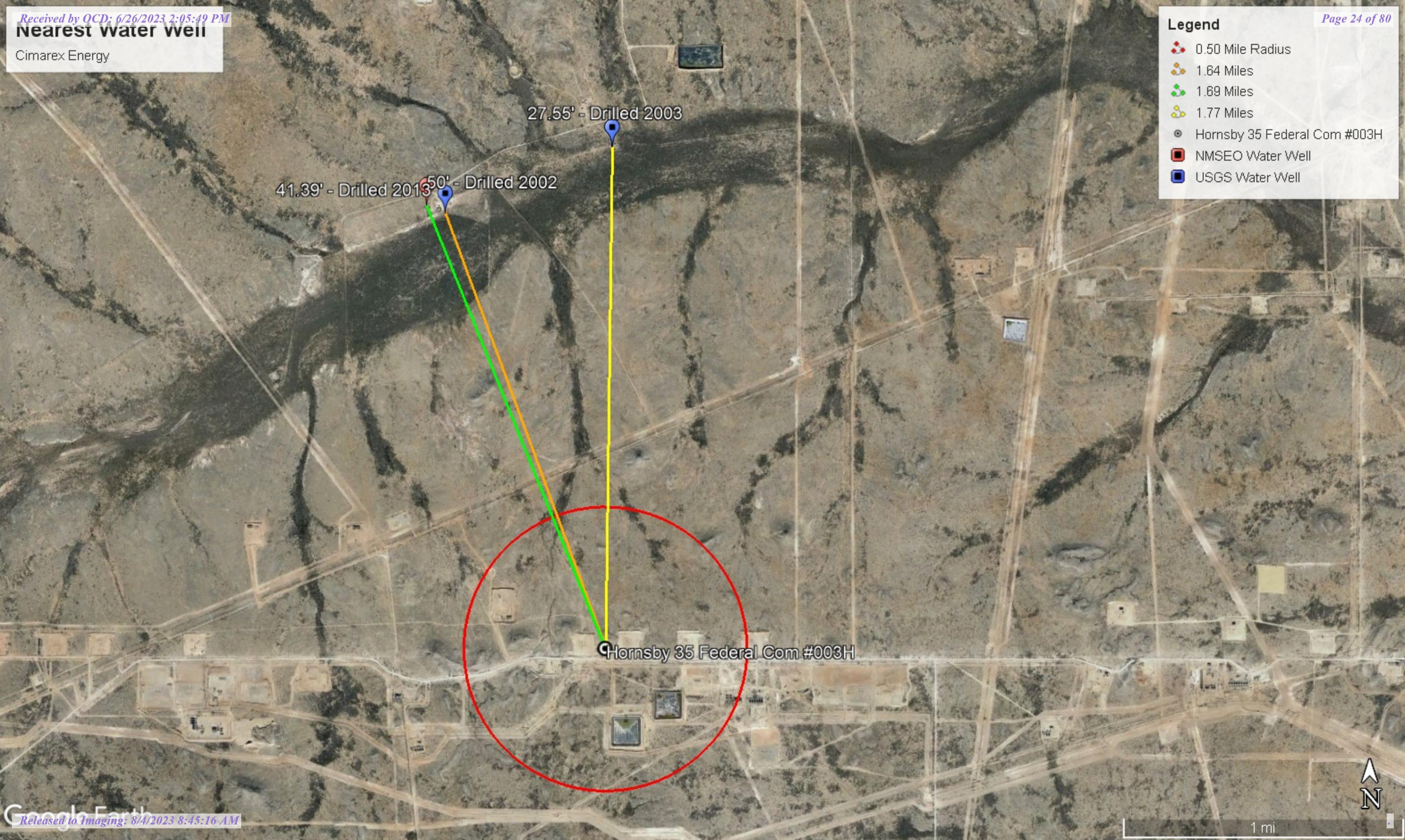


### Nearest water well

Cimarex Energy

#### Legend

- 0.50 Mile Radius
- 1.64 Miles
- 1.69 Miles
- 1.77 Miles
- Hornsby 35 Federal Com #003H
- NMSEO Water Well
- USGS Water Well



Hornsby 35 Federal Com #003H

27.55' - Drilled 2003

41.39' - Drilled 2013

50' - Drilled 2002



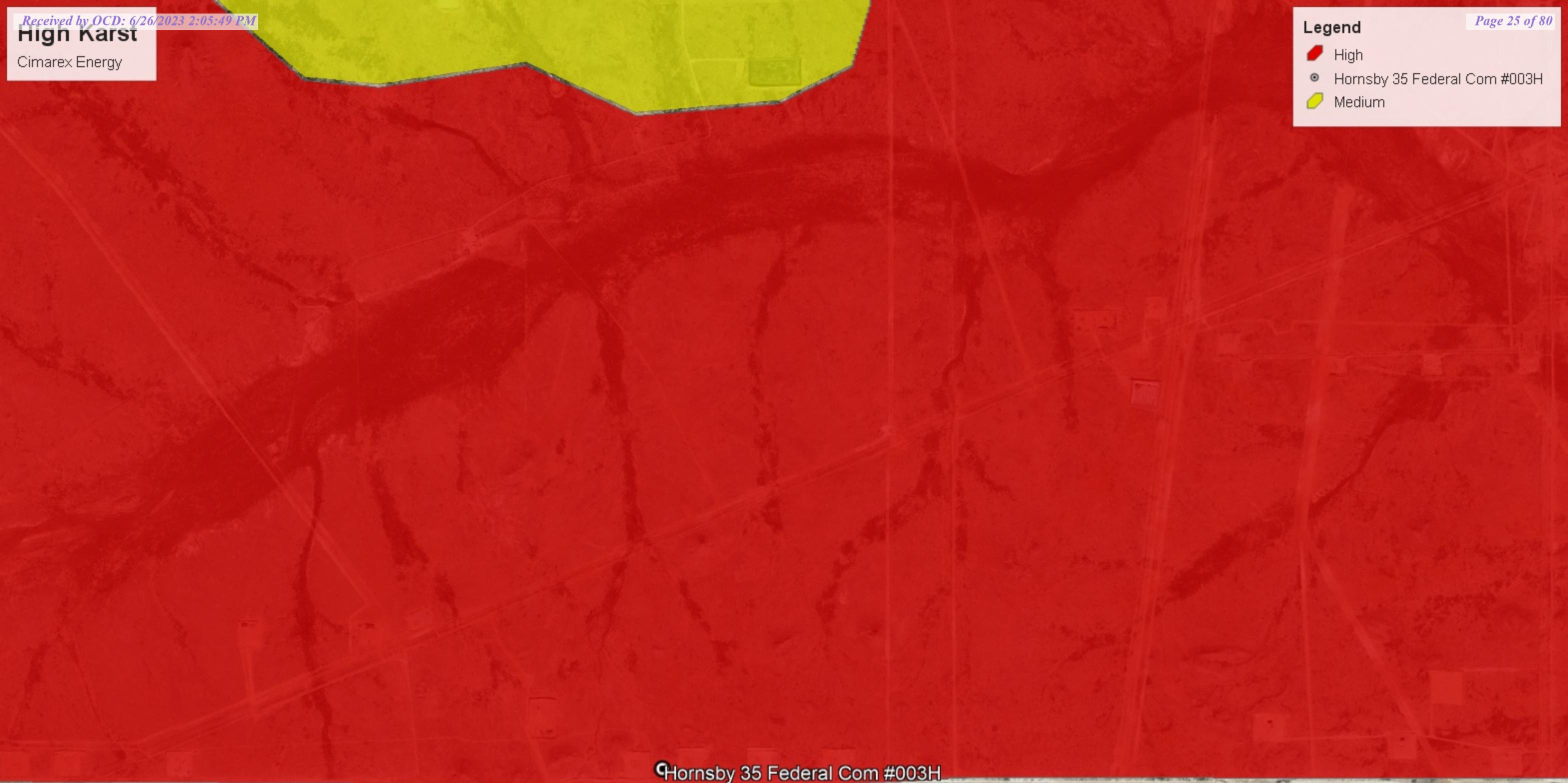
1 mi

# High Karst

Cimarex Energy

**Legend**

-  High
-  Hornsby 35 Federal Com #003H
-  Medium



Hornsby 35 Federal Com #003H



1 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="#">C 02930</a>	C	ED		2	3	4	22	26S	27E	577938	3543284*	2706	100	50	50
<a href="#">C 02476</a>	CUB	ED		4	1	24	26S	27E	580653	3544032*	3640	150			

Average Depth to Water: **50 feet**

Minimum Depth: **50 feet**

Maximum Depth: **50 feet**

**Record Count: 2**

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 578994

**Northing (Y):** 3540792

**Radius:** 4000

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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	? S
------	------	-------------------------------------	---------------------	--------------------------------------	---	---------------------------	--------

Groundwater    New Mexico    GO

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Groundwater levels for New Mexico

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

### Search Results -- 1 sites found

**Agency code** = usgs  
**site\_no list** = 

- 320124104110601

**Minimum number of levels** = 1  
[Save file of selected sites](#) to local disk for future upload

### USGS 320124104110601 26S.27E.22.43242

Eddy County, New Mexico  
 Latitude 32°01'21.8", Longitude 104°10'24.4" NAD83  
 Land-surface elevation 3,095 feet above NGVD29  
 The depth of the well is 56 feet below land surface.  
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
 This well is completed in the Castile Formation (312CSTL) 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
1987-10-13			D 62610		3082.58	NGVD29	P		S	
1987-10-13			D 62611		3084.21	NAVD88	P		S	
1987-10-13			D 72019	12.42			P		S	
1992-11-04			D 62610		3076.22	NGVD29	1		S	USGS
1992-11-04			D 62611		3077.85	NAVD88	1		S	USGS
1992-11-04			D 72019	18.78			1		S	USGS
1992-11-18			D 62610		3076.52	NGVD29	1		S	USGS
1992-11-18			D 62611		3078.15	NAVD88	1		S	USGS
1992-11-18			D 72019	18.48			1		S	USGS
1998-01-13			D 62610		3070.48	NGVD29	1		S	USGS
1998-01-13			D 62611		3072.11	NAVD88	1		S	USGS
1998-01-13			D 72019	24.52			1		S	USGS
2003-01-29			D 62610		3064.65	NGVD29	1		S	USGS
2003-01-29			D 62611		3066.28	NAVD88	1		S	USGS

Date	Time	?	?	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	?
		Water-level date-time accuracy	Parameter code				S
2003-01-29		D	72019	30.35			USGS
2013-01-09	21:20 UTC	m	62610		3053.61	NGVD29	USGS
2013-01-09	21:20 UTC	m	62611		3055.24	NAVD88	USGS
2013-01-09	21:20 UTC	m	72019	41.39			USGS

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
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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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?>



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

Page Last Modified: 2023-04-03 10:57:31 EDT

0.28 0.25 nadww01



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)					(NAD83 UTM in meters)
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
		(quarters are smallest to largest)					
C	02930	2 3 4	22	26S	27E	577938	3543284*

<b>Driller License:</b> 1227	<b>Driller Company:</b> B & H DRILLING	
<b>Driller Name:</b>		
<b>Drill Start Date:</b> 09/06/2002	<b>Drill Finish Date:</b> 09/12/2002	<b>Plug Date:</b>
<b>Log File Date:</b> 12/19/2002	<b>PCW Rev Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 120 GPM
<b>Casing Size:</b> 6.00	<b>Depth Well:</b> 100 feet	<b>Depth Water:</b> 50 feet

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	50	62	Sandstone/Gravel/Conglomerate
	80	100	Limestone/Dolomite/Chalk

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	50	100

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/3/23 8:53 AM

POINT OF DIVERSION SUMMARY



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

Search Results -- 1 sites found

Agency code = usgs  
site\_no list = 

- 320134104094801

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 320134104094801 26S.27E.23.321431

Eddy County, New Mexico  
Latitude 32°01'34", Longitude 104°09'48" NAD27  
Land-surface elevation 3,065 feet above NGVD29  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Bell Canyon Formation (313BLCN) 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 of measurement
1992-11-04			D 62610		3045.35	NGVD29	1	S		
1992-11-04			D 62611		3046.97	NAVD88	1	S		
1992-11-04			D 72019	19.65			1	S		
1998-01-13			D 62610		3039.38	NGVD29	1	S		
1998-01-13			D 62611		3041.00	NAVD88	1	S		
1998-01-13			D 72019	25.62			1	S		
2003-01-29			D 62610		3037.45	NGVD29	1	S		USGS
2003-01-29			D 62611		3039.07	NAVD88	1	S		USGS
2003-01-29			D 72019	27.55			1	S		USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day

4/31/23, 9:36 AM

Section	Code	Description
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.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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

**URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**

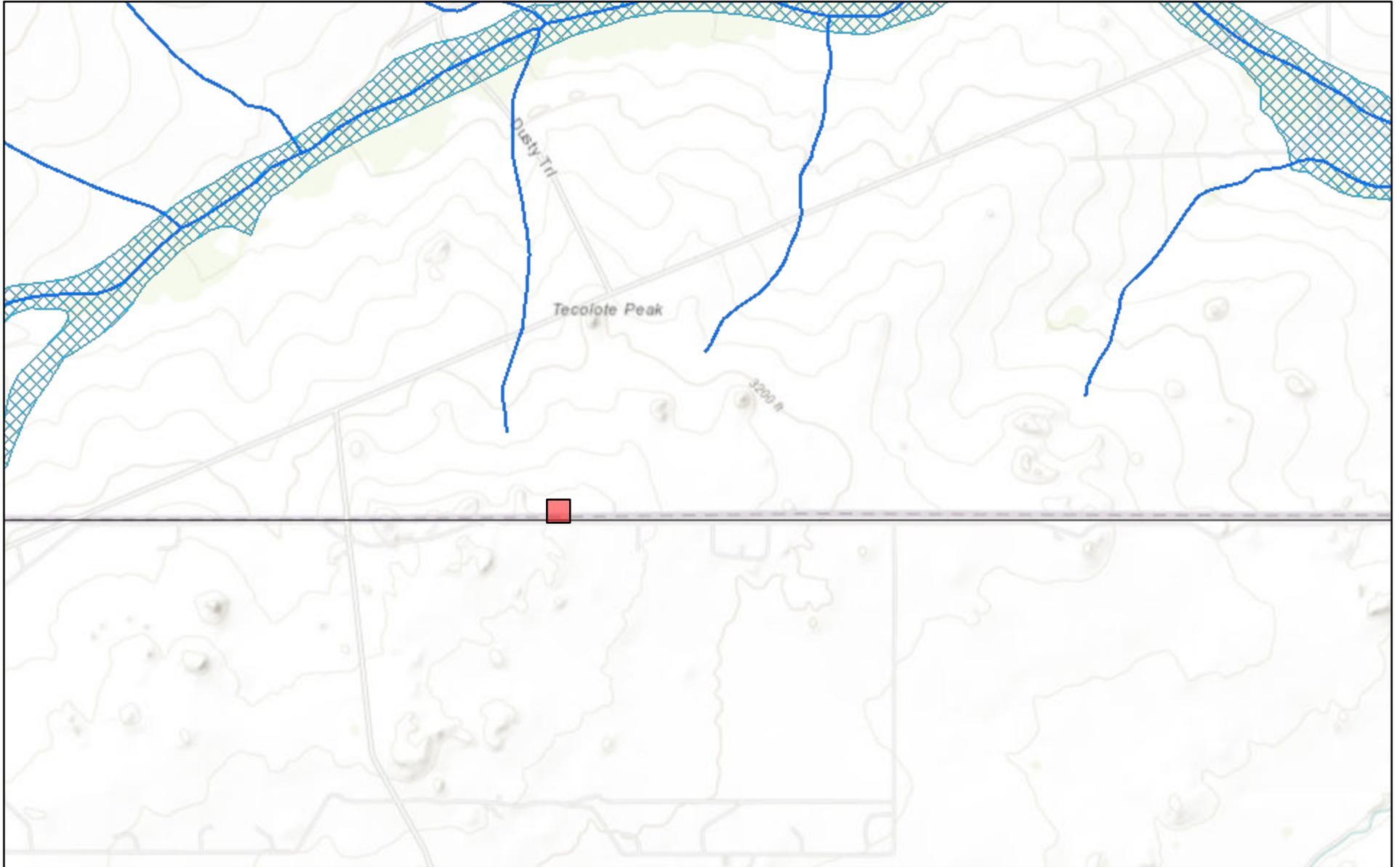


Page Contact Information: [New Mexico Water Data Maintainer](#)

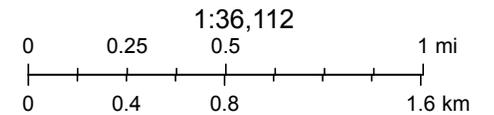
Page Last Modified: 2023-04-03 10:56:08 EDT

0.3 0.25 nadww01

# 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,

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# APPENDIX E

CARMONA RESOURCES





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

---

April 11, 2023

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

RE: HORNSBY 35 FEDERAL COM #003

Enclosed are the results of analyses for samples received by the laboratory on 04/05/23 13:30.

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, flowing "C" at the beginning.

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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 1 (0-0.5') (H231587-01)**

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	04/06/2023	ND	2.01	100	2.00	1.07	
Toluene*	<0.050	0.050	04/06/2023	ND	2.03	102	2.00	0.903	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	0.958	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.28	105	6.00	0.272	
Total BTEX	<0.300	0.300	04/06/2023	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	1540	16.0	04/06/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	166	83.0	200	1.68	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	189	94.7	200	0.477	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 1 (0.5'-1.0') (H231587-02)**

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	04/06/2023	ND	2.01	100	2.00	1.07	
Toluene*	<0.050	0.050	04/06/2023	ND	2.03	102	2.00	0.903	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	0.958	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.28	105	6.00	0.272	
Total BTEX	<0.300	0.300	04/06/2023	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	640	16.0	04/06/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	166	83.0	200	1.68	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	189	94.7	200	0.477	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					

Surrogate: 1-Chlorooctane 81.5 % 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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 1 (1.0'-1.5') (H231587-03)**

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	04/06/2023	ND	2.01	100	2.00	1.07	
Toluene*	<0.050	0.050	04/06/2023	ND	2.03	102	2.00	0.903	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	0.958	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.28	105	6.00	0.272	
Total BTEX	<0.300	0.300	04/06/2023	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	304	16.0	04/06/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	166	83.0	200	1.68	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	189	94.7	200	0.477	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 2 (0-0.5') (H231587-04)**

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	04/06/2023	ND	2.01	100	2.00	1.07		
Toluene*	<0.050	0.050	04/06/2023	ND	2.03	102	2.00	0.903		
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	0.958		
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.28	105	6.00	0.272		
Total BTEX	<0.300	0.300	04/06/2023	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	176	16.0	04/06/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	166	83.0	200	1.68		
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	189	94.7	200	0.477		
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND						

Surrogate: 1-Chlorooctane 80.2 % 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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 2 (0.5'-1.0') (H231587-05)**

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	04/06/2023	ND	2.01	100	2.00	1.07		
Toluene*	<0.050	0.050	04/06/2023	ND	2.03	102	2.00	0.903		
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	0.958		
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.28	105	6.00	0.272		
Total BTEX	<0.300	0.300	04/06/2023	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	224	16.0	04/06/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	166	83.0	200	1.68		
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	189	94.7	200	0.477		
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND						

Surrogate: 1-Chlorooctane 78.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 3 (0-0.5') (H231587-06)**

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	04/06/2023	ND	2.01	100	2.00	1.07		
Toluene*	<0.050	0.050	04/06/2023	ND	2.03	102	2.00	0.903		
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	0.958		
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.28	105	6.00	0.272		
Total BTEX	<0.300	0.300	04/06/2023	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	912	16.0	04/06/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42		
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37		
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND						

Surrogate: 1-Chlorooctane 69.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.1 % 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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 3 (0.5'-1.0') (H231587-07)**

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	04/06/2023	ND	2.01	100	2.00	1.07	
Toluene*	<0.050	0.050	04/06/2023	ND	2.03	102	2.00	0.903	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	0.958	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.28	105	6.00	0.272	
Total BTEX	<0.300	0.300	04/06/2023	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
<b>Chloride</b>	<b>1460</b>	16.0	04/06/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
<b>DRO &gt;C10-C28*</b>	<b>44.4</b>	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 3 (1.0'-1.5') (H231587-08)**

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	04/06/2023	ND	2.01	100	2.00	1.07		
Toluene*	<0.050	0.050	04/06/2023	ND	2.03	102	2.00	0.903		
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	0.958		
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.28	105	6.00	0.272		
Total BTEX	<0.300	0.300	04/06/2023	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	880	16.0	04/06/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42		
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37		
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND						

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 3 (1.5'-2.0') (H231587-09)**

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	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	400	16.0	04/06/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 4 (0-0.5') (H231587-10)**

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	04/07/2023	ND	1.96	98.0	2.00	2.25		
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160		
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822		
Total BTEX	<0.300	0.300	04/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	160	16.0	04/06/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42		
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37		
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND						

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 4 (0.5'-1.0') (H231587-11)**

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	04/07/2023	ND	1.96	98.0	2.00	2.25		
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160		
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822		
Total BTEX	<0.300	0.300	04/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	240	16.0	04/06/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42		
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37		
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND						

Surrogate: 1-Chlorooctane 72.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 5 (0-0.5') (H231587-12)**

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	04/07/2023	ND	1.96	98.0	2.00	2.25		
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04		
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160		
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822		
Total BTEX	<0.300	0.300	04/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	336	16.0	04/06/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42		
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37		
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND						

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 5 (0.5'-1.0') (H231587-13)**

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	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 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
<b>Chloride</b>	<b>320</b>	16.0	04/06/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
<b>DRO &gt;C10-C28*</b>	<b>15.2</b>	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					

Surrogate: 1-Chlorooctane 77.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 6 (0-0.5') (H231587-14)**

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	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	04/06/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: S - 6 (0.5'-1.0') (H231587-15)**

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	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	96.0	16.0	04/06/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: H - 1 (0-0.5') (H231587-16)**

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	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	560	16.0	04/06/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					

Surrogate: 1-Chlorooctane 69.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.3 % 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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: H - 2 (0-0.5') (H231587-17)**

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	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	48.0	16.0	04/06/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					

Surrogate: 1-Chlorooctane 66.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.5 % 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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: H - 3 (0-0.5') (H231587-18)**

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	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	04/06/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					

Surrogate: 1-Chlorooctane 70.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: H - 4 (0-0.5') (H231587-19)**

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	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	112	16.0	04/06/2023	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	04/07/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/07/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/07/2023	ND					

Surrogate: 1-Chlorooctane 69.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.5 % 49.1-148

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\*=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:	04/05/2023	Sampling Date:	04/04/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: H - 5 (0-0.5') (H231587-20)**

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	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	04/06/2023	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	04/07/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/07/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/07/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 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 LCS/D 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager







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May 17, 2023

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

RE: HORNSBY 35 FEDERAL COM #003

Enclosed are the results of analyses for samples received by the laboratory on 05/16/23 13:45.

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".

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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: CS - 1 (2.0') (H232450-01)**

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	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	464	16.0	05/17/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/16/2023	ND	161	80.4	200	2.08		
DRO >C10-C28*	<10.0	10.0	05/16/2023	ND	184	92.0	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND						

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 151 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: CS - 2 (2.0') (H232450-02)**

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	05/16/2023	ND	2.08	104	2.00	4.54		
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80		
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81		
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72		
Total BTEX	<0.300	0.300	05/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	320	16.0	05/17/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<10.0	10.0	05/16/2023	ND	161	80.4	200	2.08			
DRO >C10-C28*	<10.0	10.0	05/16/2023	ND	184	92.0	200	1.05			
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND							

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 155 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: CS - 3 (2.0') (H232450-03)**

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	05/16/2023	ND	2.08	104	2.00	4.54		
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80		
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81		
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72		
Total BTEX	<0.300	0.300	05/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	384	16.0	05/17/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<10.0	10.0	05/16/2023	ND	161	80.4	200	2.08			
DRO >C10-C28*	<10.0	10.0	05/16/2023	ND	184	92.0	200	1.05			
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND							

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 149 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: CS - 4 (1.5') (H232450-04)**

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	05/16/2023	ND	2.08	104	2.00	4.54		
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80		
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81		
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72		
Total BTEX	<0.300	0.300	05/16/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	544	16.0	05/17/2023	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	05/16/2023	ND	161	80.4	200	2.08		
DRO >C10-C28*	<10.0	10.0	05/16/2023	ND	184	92.0	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND						

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 146 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: CS - 5 (1.5') (H232450-05)**

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	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	560	16.0	05/17/2023	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	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: CS - 6 (1.5') (H232450-06)**

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	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	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	352	16.0	05/17/2023	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	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 1 (2.0') (H232450-07)**

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	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	368	16.0	05/17/2023	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	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 2 (2.0') (H232450-08)**

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	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	608	16.0	05/17/2023	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	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 3 (2.0') (H232450-09)**

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	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	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	288	16.0	05/17/2023	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	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 4 (2.0') (H232450-10)**

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	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	96.0	16.0	05/17/2023	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	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 5 (1.5') (H232450-11)**

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	05/16/2023	ND	2.08	104	2.00	4.54		
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80		
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81		
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72		
Total BTEX	<0.300	0.300	05/16/2023	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	544	16.0	05/17/2023	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	05/17/2023	ND	161	80.4	200	2.08		
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05		
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 6 (1.5') (H232450-12)**

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	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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
<b>Chloride</b>	<b>80.0</b>	16.0	05/17/2023	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	05/17/2023	ND	161	80.4	200	2.08	
<b>DRO &gt;C10-C28*</b>	<b>11.5</b>	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 7 (1.5') (H232450-13)**

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	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	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	368	16.0	05/17/2023	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	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 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:	05/16/2023	Sampling Date:	05/16/2023
Reported:	05/17/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 8 (1.5') (H232450-14)**

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	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	576	16.0	05/17/2023	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	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

*Celey D. Keene*

Celey D. Keene, Lab Director/Quality Manager







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

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May 18, 2023

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

RE: HORNSBY 35 FEDERAL COM #003

Enclosed are the results of analyses for samples received by the laboratory on 05/17/23 15:15.

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".

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:	05/17/2023	Sampling Date:	05/17/2023
Reported:	05/18/2023	Sampling Type:	Soil
Project Name:	HORNSBY 35 FEDERAL COM #003	Sampling Condition:	Cool & Intact
Project Number:	2006	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO NM		

**Sample ID: SW - 2 (2.0') (H232481-01)**

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	05/17/2023	ND	2.21	111	2.00	16.2		
Toluene*	<0.050	0.050	05/17/2023	ND	2.24	112	2.00	14.6		
Ethylbenzene*	<0.050	0.050	05/17/2023	ND	2.15	108	2.00	13.7		
Total Xylenes*	<0.150	0.150	05/17/2023	ND	6.71	112	6.00	13.7		
Total BTEX	<0.300	0.300	05/17/2023	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	256	16.0	05/18/2023	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	175	87.5	200	4.95		
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	183	91.6	200	6.65		
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND						

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
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
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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CONDITIONS

Action 232897

**CONDITIONS**

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 232897
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
bhall	Closure approved. Site will need to meet all the requirements of 19.15.29.13 NMAC when the site is not reasonably needed for production operations or for subsequent drilling operations.	8/4/2023