



## SITE INFORMATION

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**Closure Report**  
**Bradley 14-11 Federal Com 1H**  
**Incident ID: NRM2025344424**  
**Eddy County, New Mexico**  
**Unit M Sec 14 T24S R26E**  
**32.210488°, -104.270929°**

**Point of Release:**  
**Leak on the 10" trunk line between separator and water tank**  
**Release Date: 09/01/2020**  
**Volume Released: 10 Barrels of Produced Water**  
**Volume Recovered: 1 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 1, 2023

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

**Re: Closure Report**  
**Bradley 14-11 Federal Com 1H**  
**Incident ID: NRM2025344424**  
**Cimarex Energy Co.**  
**Site Location: Unit M, S14, T24S, R26E**  
**(Lat 32.210488°, Long -104.270929°)**  
**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 Bradley 14-11 Federal Com 1H. The site is located at 32.210488°, -104.270929° within Unit M, S14, T24S, R26E, in Eddy County, New Mexico (Figures 1 and 2).

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

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on September 1, 2020, caused by internal corrosion of a 10" trunk line between the separator and water tank. It resulted in approximately ten (10) barrels of produced water, and one (1) barrel of produced water was 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, one known water source is within a 0.50-mile radius of the location. The nearest identified well is approximately 0.16 miles Southeast of the site in S23, T24S, R26E and was drilled in 1960. The well has a reported depth to groundwater of 7' 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 May 10, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, four (4) trenches and six (6) horizontal sample points were advanced to depths ranging from the surface to 3.0' 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**

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 23, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of T-1 was excavated to a depth of 1.5' bgs. A total of two (2) confirmation floor samples (CS-1 through CS-2) and four (4) sidewall samples (SW-1 through SW-4) were collected every 100 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 20 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 contact us at 432-813-1992.

Sincerely,

**Carmona Resources, LLC**

Ashton Thielke  
Sr. Project Manager

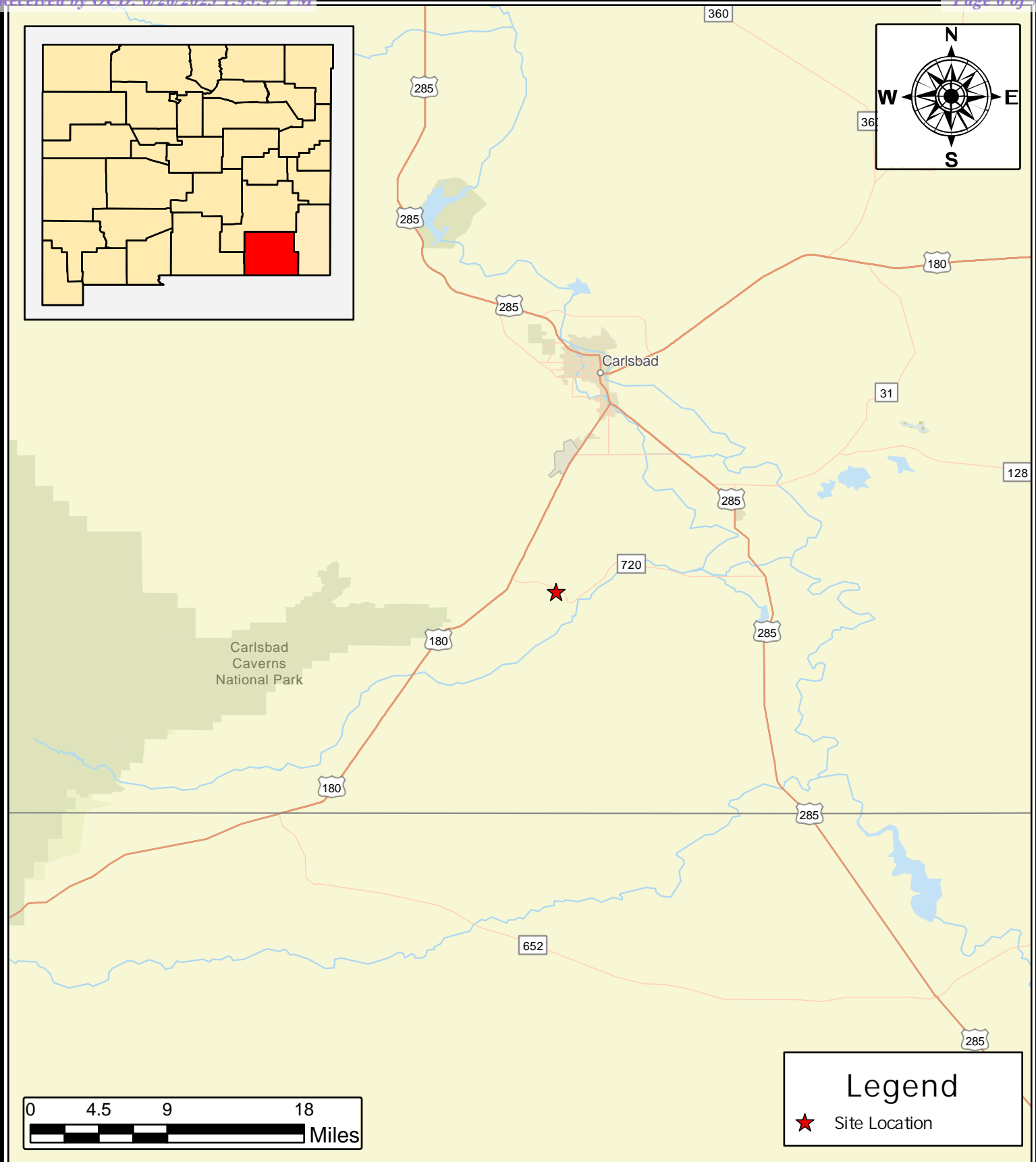
Conner Moehring  
Sr. Project Manager




## FIGURES

CARMONA RESOURCES



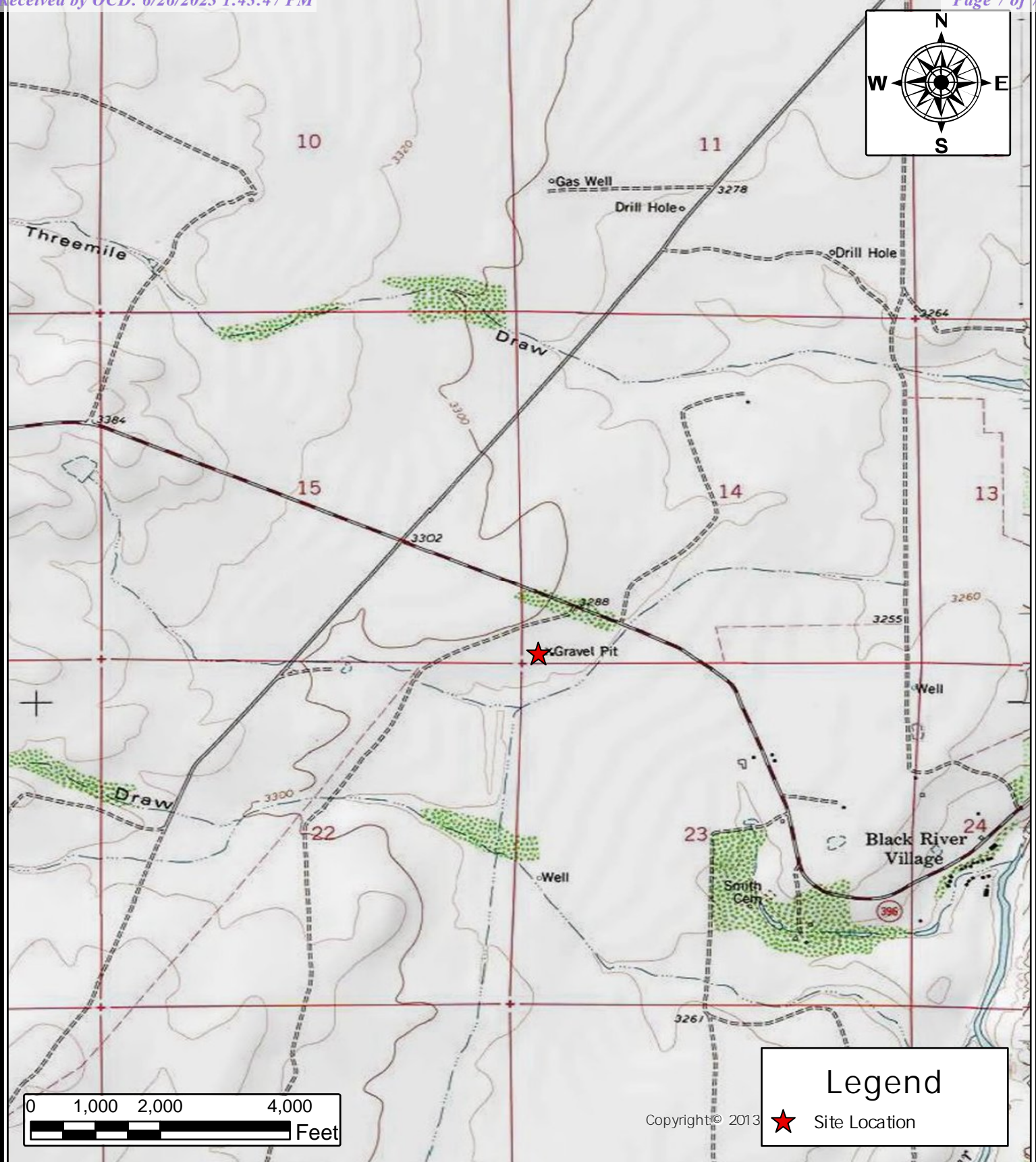


|   |                 |
|---|-----------------|
| <b>OVERVIEW MAP</b><br><b>CIMAREX ENERGY CO.</b><br>BRADLEY 14-11 FEDERAL COM 1H<br>EDDY COUNTY, NEW MEXICO<br>32.210488, -104.270929 |                 |
| SCALE: As Shown   | Date: 5/25/2023 |

|  |
|--|
| <br><b>Carmona Resources</b><br>310 West Wall Street, Suite 500<br>Midland, Texas 79701 |
|--|

|   |
|---|
| <b>NOTES:</b><br>1. Base Image: ESRI Maps & Data 2023<br>2. Map Projection: WGS84 |
|---|

|                 |
|-----------------|
| DRAWING NUMBER: |
| <b>FIGURE 1</b> |
| SHEET NUMBER:   |
| 1 of 1          |



**TOPOGRAPHIC MAP**  
**CIMAREX ENERGY CO.**  
BRADLEY 14-11 FEDERAL COM 1H  
EDDY COUNTY, NEW MEXICO  
32.210488, -104.270929

SCALE: As Shown      Date: 5/25/2023

CARMONA RESOURCES

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

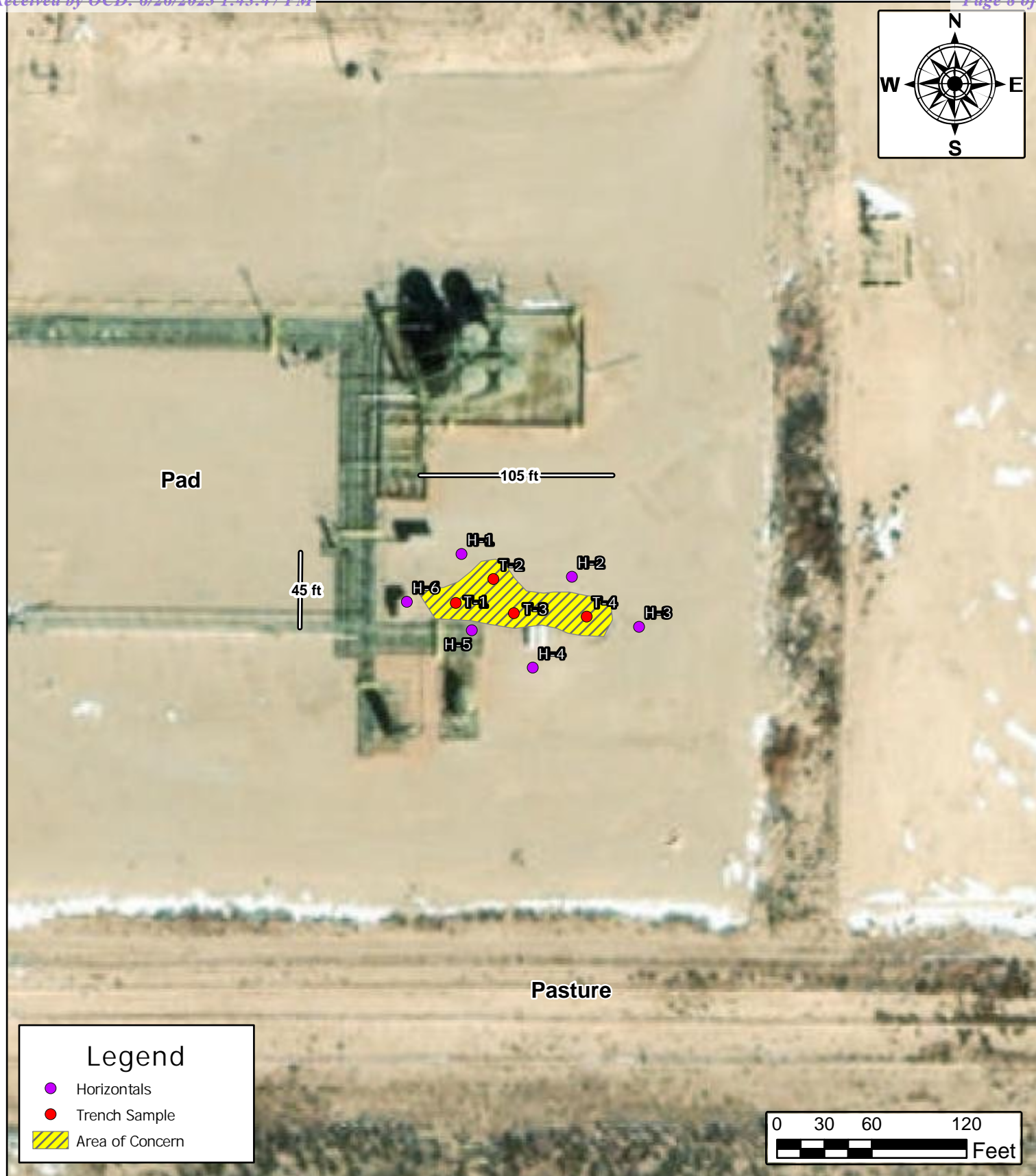
**NOTES:**

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

DRAWING NUMBER:  
**FIGURE 2**

SHEET NUMBER:  
1 of 1





**SAMPLE LOCATION MAP**  
**CIMAREX ENERGY CO.**  
 BRADLEY 14-11 FEDERAL COM 1H  
 EDDY COUNTY, NEW MEXICO  
 32.210488, -104.270929

SCALE: As Shown

Date: 5/31/2023



**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



**EXCAVATION DEPTH MAP**  
**CIMAREX ENERGY CO.**  
 BRADLEY 14-11 FEDERAL COM 1H  
 EDDY COUNTY, NEW MEXICO  
 32.210488, -104.270929

SCALE: As Shown

Date: 5/26/2023



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

**NOTES:**

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

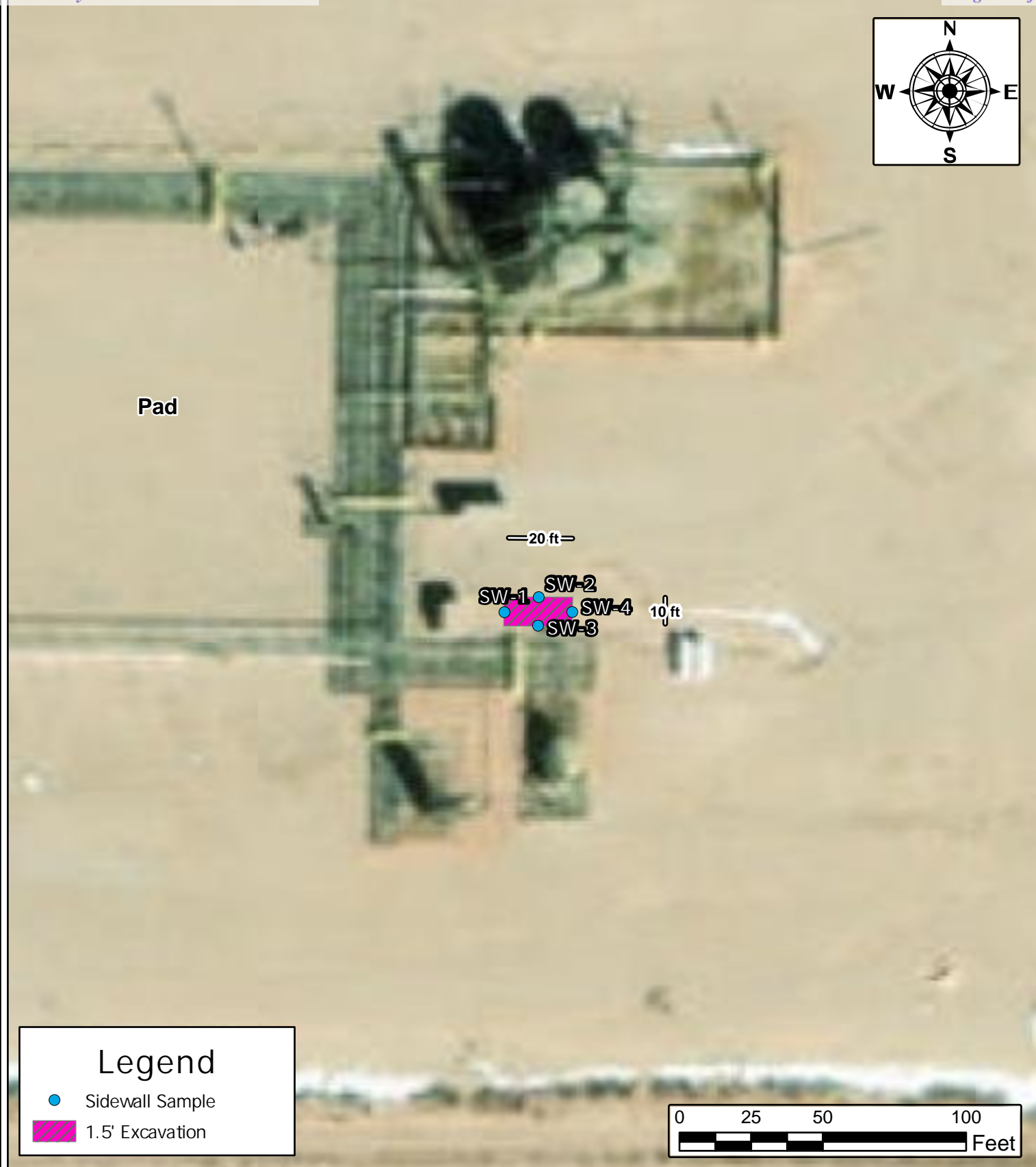
DRAWING NUMBER:

**FIGURE 4A**

SHEET NUMBER:

1 of 2





**EXCAVATION DEPTH MAP**  
**CIMAREX ENERGY CO.**  
 BRADLEY 14-11 FEDERAL COM 1H  
 EDDY COUNTY, NEW MEXICO  
 32.210488, -104.270929

SCALE: As Shown

Date: 5/26/2023



**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 4B**

SHEET NUMBER:

2 of 2

## APPENDIX A

CARMONA RESOURCES



**Table 1**  
**Cimarex Energy Co.**  
**Bradley 14-11 Fed Com 1H**  
**Eddy County, New Mexico**

| Sample ID                              | Date      | Depth (ft) | TPH (mg/kg) |       |       |       | Benzene (mg/kg)  | Toluene (mg/kg) | Ethlybenzene (mg/kg) | Xylene (mg/kg) | Total BTEX (mg/kg) | Chloride (mg/kg) |
|--|-----------|------------|-------------|-------|-------|-------|------------------|-----------------|----------------------|----------------|--------------------|------------------|
|  |           |            | GRO         | DRO   | MRO   | Total |                  |                 |                      |                |                    |                  |
| <b>T-1</b>                             | 5/10/2023 | 0-1.0      | <10.0       | <10.0 | <10.0 | <10.0 | <0.050           | <0.050          | <0.050               | <0.150         | <0.300             | <b>4,960</b>     |
|  | "         | 1.0-1.5    | <10.0       | <10.0 | <10.0 | <10.0 | <0.050           | <0.050          | <0.050               | <0.150         | <0.300             | 288              |
|  | "         | 1.5-2.0    | <10.0       | <10.0 | <10.0 | <10.0 | <0.050           | <0.050          | <0.050               | <0.150         | <0.300             | 272              |
|  | "         | 2.0-3.0    | <10.0       | <10.0 | <10.0 | <10.0 | <0.050           | <0.050          | <0.050               | <0.150         | <0.300             | 112              |
| <b>T-2</b>                             | 5/10/2023 | 0-1.0      | <10.0       | <10.0 | <10.0 | <10.0 | <0.050           | <0.050          | <0.050               | <0.150         | <0.300             | 112              |
|  | "         | 1.0-1.5    | <10.0       | <10.0 | <10.0 | <10.0 | <0.050           | <0.050          | <0.050               | <0.150         | <0.300             | 112              |
|  | "         | 1.5-2.0    | <10.0       | <10.0 | <10.0 | <10.0 | <0.050           | <0.050          | <0.050               | <0.150         | <0.300             | 64.0             |
| <b>T-3</b>                             | 5/10/2023 | 0-1.0      | <10.0       | <10.0 | <10.0 | <10.0 | <0.050           | <0.050          | <0.050               | <0.150         | <0.300             | 64.0             |
|  | "         | 1.0-1.5    | <10.0       | <10.0 | <10.0 | <10.0 | <0.050           | <0.050          | <0.050               | <0.150         | <0.300             | 16.0             |
|  | "         | 1.5-2.0    | <10.0       | <10.0 | <10.0 | <10.0 | <0.050           | <0.050          | <0.050               | <0.150         | <0.300             | <16.0            |
| <b>T-4</b>                             | 5/10/2023 | 0-1.0      | <10.0       | <10.0 | <10.0 | <10.0 | <0.050           | <0.050          | <0.050               | <0.150         | <0.300             | <16.0            |
|  | "         | 1.0-1.5    | <10.0       | <10.0 | <10.0 | <10.0 | <0.050           | <0.050          | <0.050               | <0.150         | <0.300             | <16.0            |
|  | "         | 1.5-2.0    | <10.0       | <10.0 | <10.0 | <10.0 | <0.050           | <0.050          | <0.050               | <0.150         | <0.300             | <16.0            |
| <b>H-1</b>                             | 5/10/2023 | 0-0.5      | <10.0       | <10.0 | <10.0 | <10.0 | <0.050           | <0.050          | <0.050               | <0.150         | <0.300             | <16.0            |
| <b>H-2</b>                             | 5/10/2023 | 0-0.5      | <10.0       | <10.0 | <10.0 | <10.0 | <0.050           | <0.050          | <0.050               | <0.150         | <0.300             | <16.0            |
| <b>H-3</b>                             | 5/10/2023 | 0-0.5      | <10.0       | <10.0 | <10.0 | <10.0 | <0.050           | <0.050          | <0.050               | <0.150         | <0.300             | 48.0             |
| <b>H-4</b>                             | 5/10/2023 | 0-0.5      | <10.0       | <10.0 | <10.0 | <10.0 | <0.050           | <0.050          | <0.050               | <0.150         | <0.300             | <16.0            |
| <b>H-5</b>                             | 5/10/2023 | 0-0.5      | <10.0       | <10.0 | <10.0 | <10.0 | <0.050           | <0.050          | <0.050               | <0.150         | <0.300             | <16.0            |
| <b>H-6</b>                             | 5/10/2023 | 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

(T) Trench

(H) Horizontal Sample

 Removed



**Table 2**  
**Cimarex**  
**Bradley 14-11 Fed Com 1H**  
**Eddy County, New Mexico**

| Sample ID                              | Date      | Depth (ft) | TPH (mg/kg) |       |       |       | Benzene<br>(mg/kg) | Toluene<br>(mg/kg) | Ethlybenzene<br>(mg/kg) | Xylene<br>(mg/kg) | Total BTEX<br>(mg/kg) | Chloride<br>(mg/kg) |
|--|-----------|------------|-------------|-------|-------|-------|--------------------|--------------------|-------------------------|-------------------|-----------------------|---------------------|
|  |           |            | GRO         | DRO   | MRO   | Total |                    |                    |                         |                   |                       |                     |
| <b>CS-1</b>                            | 5/25/2023 | 1.5        | <10.0       | <10.0 | <10.0 | <10.0 | <0.050             | <0.050             | <0.050                  | <0.150            | <0.300                | 96.0                |
| <b>CS-2</b>                            | 5/25/2023 | 1.5        | <10.0       | <10.0 | <10.0 | <10.0 | <0.050             | <0.050             | <0.050                  | <0.150            | <0.300                | 128                 |
| <b>SW-1</b>                            | 5/25/2023 | 1.5        | <10.0       | <10.0 | <10.0 | <10.0 | <0.050             | <0.050             | <0.050                  | <0.150            | <0.300                | 416                 |
| <b>SW-2</b>                            | 5/25/2023 | 1.5        | <10.0       | <10.0 | <10.0 | <10.0 | <0.050             | <0.050             | <0.050                  | <0.150            | <0.300                | 224                 |
| <b>SW-3</b>                            | 5/25/2023 | 1.5        | <10.0       | <10.0 | <10.0 | <10.0 | <0.050             | <0.050             | <0.050                  | <0.150            | <0.300                | 96.0                |
| <b>SW-4</b>                            | 5/25/2023 | 1.5        | <10.0       | <10.0 | <10.0 | <10.0 | <0.050             | <0.050             | <0.050                  | <0.150            | <0.300                | 128                 |
| <i>Regulatory Criteria<sup>A</sup></i> |           |            |             |       |       |       | 100 mg/kg          | 10 mg/kg           |                         |                   | 50 mg/kg              | 600 mg/kg           |

(-) Not Analyzed

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

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Sample

(SW) Sidewall Sample

## APPENDIX B

CARMONA RESOURCES



# PHOTOGRAPHIC LOG

Cimarex Energy Co.

## Photograph No. 1

**Facility:** Bradley 14-11 Federal Com 1H

**County:** Eddy County, New Mexico

**Description:**

View Southeast, area of CS-1 and CS-2.



## Photograph No. 2

**Facility:** Bradley 14-11 Federal Com 1H

**County:** Eddy County, New Mexico

**Description:**

View East, area of CS-1 and CS-2.



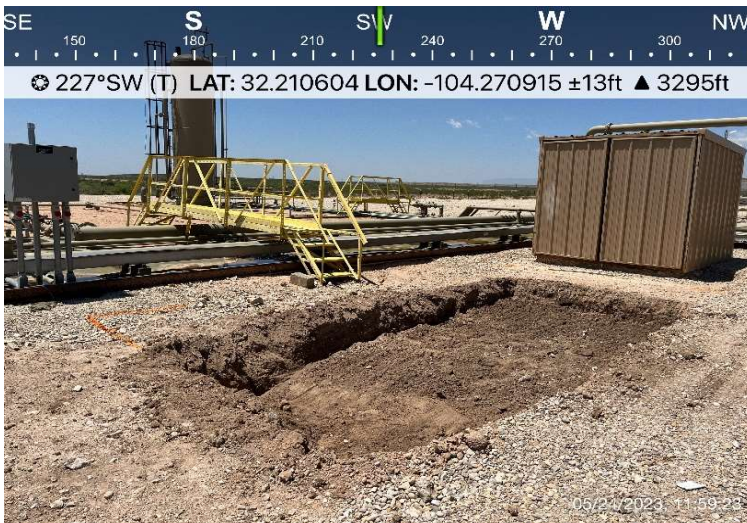
## Photograph No. 3

**Facility:** Bradley 14-11 Federal Com 1H

**County:** Eddy County, New Mexico

**Description:**

View Southwest, area of CS-1 and CS-2.



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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

|                |               |
|----------------|---------------|
| Incident ID    | NRM2025344424 |
| District RP    |               |
| Facility ID    |               |
| Application ID |               |

## Release Notification

### Responsible Party

|   |                                   |
|---|-----------------------------------|
| Responsible Party: Cimarex Energy Co.   | OGRID: 215099                     |
| Contact Name: Laci Luig   | Contact Telephone: (432) 571-7800 |
| Contact email: lluig@cimarex.com  | Incident # (assigned by OCD)      |
| Contact mailing address: 600 N Marienfeld Street, Ste. 600<br>Midland, TX 79701 |                                   |

### Location of Release Source

Latitude 32.210488 Longitude -104.270929  
(NAD 83 in decimal degrees to 5 decimal places)

|   |                      |
|---|----------------------|
| Site Name: Bradley 14-11 Federal Com 1H | Site Type: Battery   |
| Date Release Discovered: 9/1/2020       | API# (if applicable) |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| M           | 14      | 24S      | 26E   | Eddy   |

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

|  |  |  |
|--|--|--|
| <input type="checkbox"/> Crude Oil                 | Volume Released (bbls)   | Volume Recovered (bbls)                                  |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) 10  | Volume Recovered (bbls) 1                                |
|  | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="checkbox"/> Condensate                | Volume Released (bbls)   | Volume Recovered (bbls)                                  |
| <input type="checkbox"/> Natural Gas               | Volume Released (Mcf)  | Volume Recovered (Mcf)                                   |
| <input type="checkbox"/> Other (describe)          | Volume/Weight Released (provide units)   | Volume/Weight Recovered (provide units)                  |

Cause of Release: Corrosion

A leak developed on the 10" trunk line between the separator and water tank due to internal corrosion. Released 10 barrels of produced water out on the battery pad, 1 barrel was recovered. The impacted soil will be delineated to determine pathway forward.



## Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

*Released to Imaging: 12/6/2023 2:40:22 PM*

|                |  |
|----------------|--|
| 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:  Date: \_\_\_\_\_

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

**OCD Only**Received by: Shelly Wells Date: 6/26/2023



|                |  |
|----------------|--|
| Incident ID    |  |
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

## Closure

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

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

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

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

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

### OCD Only

Received by: Shelly Wells Date: 6/26/2023

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

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

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

**Ashton Thielke**

---

**From:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Sent:** Tuesday, May 23, 2023 5:26 PM  
**To:** Ashton Thielke  
**Cc:** Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD  
**Subject:** RE: [EXTERNAL] nRM2025344424 - Bradley 14-11 Federal Com 1H - Confirmation Sampling Notification

**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@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)  
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



---

**From:** Ashton Thielke <Ashton.Thielke@coterra.com>  
**Sent:** Tuesday, May 23, 2023 11:37 AM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Cc:** Laci Luig <Laci.Luig@coterra.com>  
**Subject:** [EXTERNAL] nRM2025344424 - Bradley 14-11 Federal Com 1H - Confirmation Sampling Notification

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

Good afternoon,

This email serves as 48+ hour notification for confirmation sampling on the Bradley 14-11 Federal Com 1H. Sampling is scheduled to begin as early as 12:00pm (MST) Thursday, May 25<sup>th</sup>, weather and soil conditions permitting. Carmona Resources will be on site to collect the confirmation samples.

Incident ID: nRM2025344424  
Coordinates: 32.210488, -104.270929

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)

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## APPENDIX D

CARMONA RESOURCES








# Nearest water well


Cimarex Energy


Legend


 0.16 Miles


 0.50 Mile Radius


 0.60 Miles


 0.85 Miles


 0.89 Miles

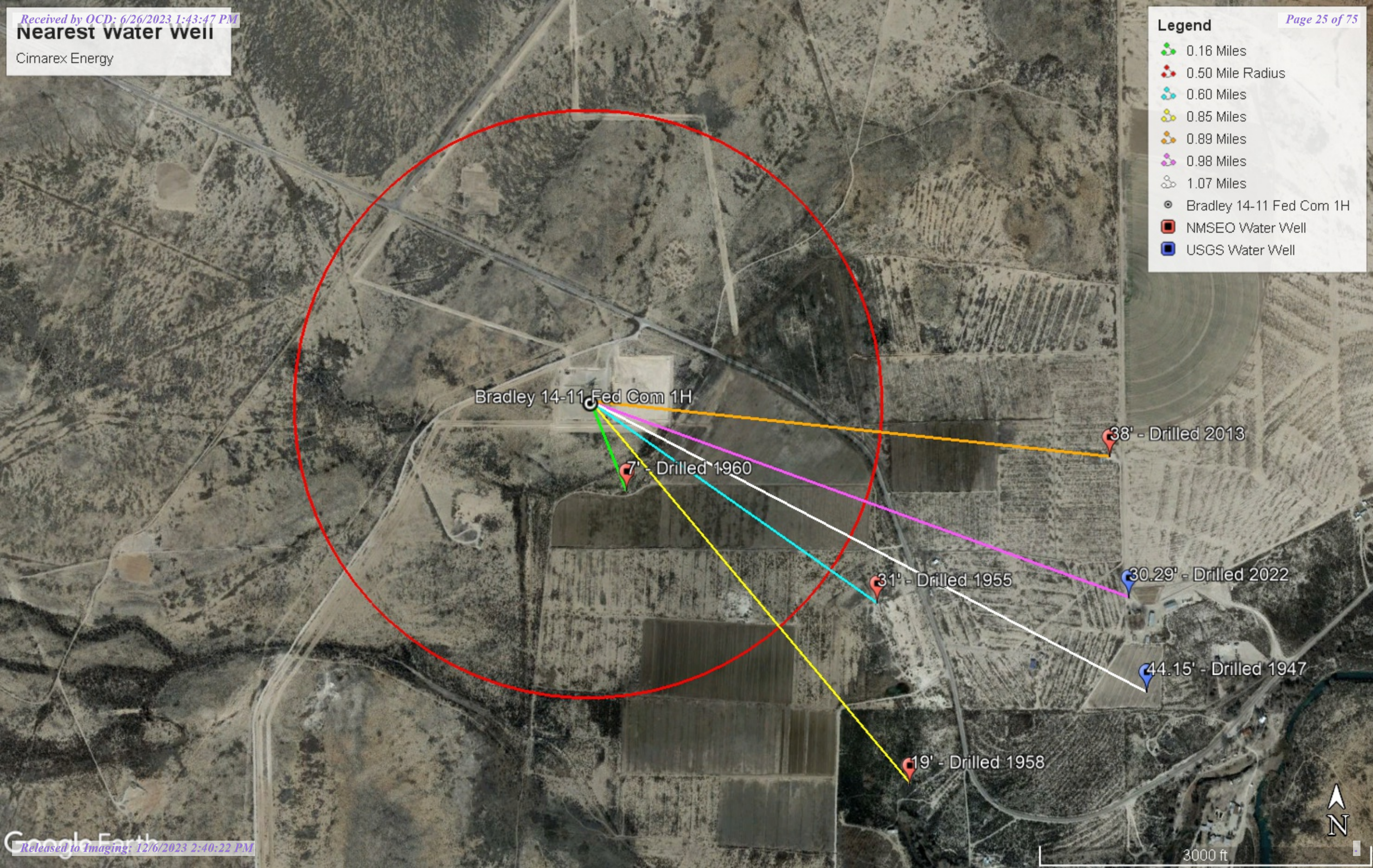
 0.98 Miles

 1.07 Miles

 Bradley 14-11 Fed Com 1H

 NMSEO Water Well

 USGS Water Well



3000 ft



# High Karst

Cimarex Energy

## Legend

- Bradley 14-11 Fed Com 1H
- High

Bradley 14-11 Fed Com 1H



3000 ft



# New Mexico Office of the State Engineer

## Point of Diversion Summary

|                                       |                   |                                    |               |                    |            |                         |            |          |          |
|---------------------------------------|-------------------|------------------------------------|---------------|--------------------|------------|-------------------------|------------|----------|----------|
|                                       |                   | (quarters are 1=NW 2=NE 3=SW 4=SE) |               |                    |            |                         |            |          |          |
|                                       |                   | (quarters are smallest to largest) |               |                    |            | (NAD83 UTM in meters)   |            |          |          |
| <b>Well Tag</b>                       | <b>POD Number</b> | <b>Q64</b>                         | <b>Q16</b>    | <b>Q4</b>          | <b>Sec</b> | <b>Tws</b>              | <b>Rng</b> | <b>X</b> | <b>Y</b> |
| C                                     | 00928             | 1                                  | 1             | 23                 | 24S        | 26E                     | 568806     | 3563757* |          |
| <hr/>                                 |                   |                                    |               |                    |            |                         |            |          |          |
| <b>Driller License:</b>               | 30                | <b>Driller Company:</b>            |               | BARRON, EMMETT     |            |                         |            |          |          |
| <b>Driller Name:</b>                  | BARRON, EMMETT    |                                    |               |                    |            |                         |            |          |          |
| <b>Drill Start Date:</b>              | 05/09/1960        | <b>Drill Finish Date:</b>          |               | 05/11/1960         |            | <b>Plug Date:</b>       |            |          |          |
| <b>Log File Date:</b>                 | 06/07/1960        | <b>PCW Rev Date:</b>               |               |                    |            | <b>Source:</b>          |            | Shallow  |          |
| <b>Pump Type:</b>                     |                   | <b>Pipe Discharge Size:</b>        |               |                    |            | <b>Estimated Yield:</b> |            |          |          |
| <b>Casing Size:</b>                   | 8.00              | <b>Depth Well:</b>                 |               | 91 feet            |            | <b>Depth Water:</b>     |            | 7 feet   |          |
| <hr/>                                 |                   |                                    |               |                    |            |                         |            |          |          |
| <b>Water Bearing Stratifications:</b> |                   | <b>Top</b>                         | <b>Bottom</b> | <b>Description</b> |            |                         |            |          |          |
|                                       |                   | 5                                  | 7             | Other/Unknown      |            |                         |            |          |          |

\*UTM location was derived from PLSS - see Help

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5/15/23 2:54 PM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

|                                |            |                                    |     |    |                      |                                    |                               |                |          |   |                      |  |  |
|--------------------------------|------------|------------------------------------|-----|----|----------------------|------------------------------------|-------------------------------|----------------|----------|---|----------------------|--|--|
|                                |            | (quarters are 1=NW 2=NE 3=SW 4=SE) |     |    |                      | (quarters are smallest to largest) |                               |                |          | (NAD83 UTM in meters)   |                      |  |  |
| Well Tag                       | POD Number | Q64                                | Q16 | Q4 | Sec                  | Tws                                | Rng                           | X              | Y        |   |                      |  |  |
| C                              | 00517      | 1                                  | 3   | 2  | 23                   | 24S                                | 26E                           | 569498         | 3563456* |  |                      |  |  |
| x                              |            |                                    |     |    |                      |                                    |                               |                |          |   |                      |  |  |
| Driller License:               |            | 30                                 |     |    | Driller Company:     |                                    |                               | BARRON, EMMETT |          |   |                      |  |  |
| Driller Name:                  |            | EMMETT BARRON                      |     |    |                      |                                    |                               |                |          |   |                      |  |  |
| Drill Start Date:              |            | 05/07/1954                         |     |    | Drill Finish Date:   |                                    |                               | 05/10/1954     |          |   | Plug Date:           |  |  |
| Log File Date:                 |            | 06/06/1955                         |     |    | PCW Rcv Date:        |                                    |                               | 06/02/1955     |          |   | Source: Shallow      |  |  |
| Pump Type:                     |            |                                    |     |    | Pipe Discharge Size: |                                    |                               |                |          |   | Estimated Yield:     |  |  |
| Casing Size:                   |            | 6.63                               |     |    | Depth Well:          |                                    |                               | 80 feet        |          |   | Depth Water: 31 feet |  |  |
| x                              |            |                                    |     |    |                      |                                    |                               |                |          |   |                      |  |  |
| Water Bearing Stratifications: |            |                                    |     |    | Top                  | Bottom                             | Description                   |                |          |   |                      |  |  |
|                                |            |                                    |     |    | 35                   | 40                                 | Sandstone/Gravel/Conglomerate |                |          |   |                      |  |  |
|                                |            |                                    |     |    | 60                   | 70                                 | Sandstone/Gravel/Conglomerate |                |          |   |                      |  |  |
| x                              |            |                                    |     |    |                      |                                    |                               |                |          |   |                      |  |  |
| Casing Perforations:           |            |                                    |     |    | Top                  | Bottom                             |                               |                |          |   |                      |  |  |
|                                |            |                                    |     |    | 55                   | 80                                 |                               |                |          |   |                      |  |  |
| x                              |            |                                    |     |    |                      |                                    |                               |                |          |   |                      |  |  |

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

|          |            |     |     |    |     |     |        |          |   |
|----------|------------|-----|-----|----|-----|-----|--------|----------|---|
| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Tws | Rng    | X        | Y |
| C        | 00829      | 1   | 4   | 23 | 24S | 26E | 569591 | 3562957* |   |

x

Driller License: 30

Driller Company: BARRON, EMMETT

Driller Name: EMMETT BARRON

Drill Start Date: 05/06/1958

Drill Finish Date: 05/09/1958

Plug Date:

Log File Date: 05/23/1958

PCW Rev Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 7.00

Depth Well: 50 feet

Depth Water: 19 feet

x

|                                |     |        |                               |
|--------------------------------|-----|--------|-------------------------------|
| Water Bearing Stratifications: | Top | Bottom | Description                   |
|                                | 36  | 50     | Sandstone/Gravel/Conglomerate |

x

\*UTM location was derived from PLSS - see Help

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nmwrrs.ose.state.nm.us/nmwrrs/ReportDispatcher?type=PODGHTML&name=PodGroundSummaryHTML.jrxml&basin=C&nbr=00829&suffix=

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# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

|          |            |     |     |    |     |     |     |        |         |
|----------|------------|-----|-----|----|-----|-----|-----|--------|---------|
| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Tws | Rng | X      | Y       |
|          | C 03675    | 2   | 2   | 2  | 23  | 24S | 26E | 570134 | 3563860 |

x

Driller License:

1348

Driller Company:

TAYLOR WATER WELL SERVICE

Driller Name:

CLINTON E TAYLOR

Drill Start Date:

10/08/2013

Drill Finish Date:

10/08/2013

Plug Date:

Log File Date:

11/08/2013

PCW Rev Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

35 GPM

Casing Size:

4.50

Depth Well:

59 feet

Depth Water:

38 feet

x

Water Bearing Stratifications:

Top

Bottom

Description

38

48

Sandstone/Gravel/Conglomerate

48

58

Sandstone/Gravel/Conglomerate

58

59

Sandstone/Gravel/Conglomerate

x

Casing Perforations:

Top

Bottom

39

59

x

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.

5/15/23 3:16 PM

POINT OF DIVERSION SUMMARY


nmwrrs.ose.state.nm.us/nmwrrs/ReportDispatcher?type=PODGHTML&name=PodGroundSummaryHTML.jrxml&basin=C&nbr=03675&suffix=

Released to Imaging: 12/6/2023 2:40:22 PM

1/1

|      |      |   |                        |   |   |                                 |        |
|------|------|---|------------------------|---|---|---------------------------------|--------|
| Date | Time | ?<br>Water-level<br>date-time<br>accuracy | ?<br>Parameter<br>code | Water<br>level,<br>feet<br>below<br>land<br>surface | Water<br>level,<br>feet<br>above<br>specific<br>vertical<br>datum | Referenced<br>vertical<br>datum | ?<br>S |
|      |      |   |                        | Groundwater   | New Mexico  | GO                              |        |

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## Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 321223104150801

Minimum number of levels = 1

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## USGS 321223104150801 24S.26E.23.242243

Eddy County, New Mexico

Latitude 32°12'20.38", Longitude 104°15'18.90" NAD83

Land-surface elevation 3,263 feet above NAVD88

The depth of the well is 55 feet below land surface.

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

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

### Output formats

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

| Date       | Time | ?<br>Water-level<br>date-time<br>accuracy | ?<br>Parameter<br>code | Water<br>level,<br>feet<br>below<br>land<br>surface | Water<br>level,<br>feet<br>above<br>specific<br>vertical<br>datum | Referenced<br>vertical<br>datum | ?<br>Status | ?<br>Method of<br>measurement | ?<br>Measuring<br>agency | ?<br>Source<br>measur |
|------------|------|---|------------------------|---|---|---------------------------------|-------------|-------------------------------|--------------------------|-----------------------|
| 1974-01-22 |      |   | D 62610                |   | 3229.75   | NGVD29                          | 1           |                               | Z                        |                       |
| 1974-01-22 |      |   | D 62611                |   | 3231.42   | NAVD88                          | 1           |                               | Z                        |                       |
| 1974-01-22 |      |   | D 72019                | 31.58   |   |                                 | 1           |                               | Z                        |                       |
| 1975-01-29 |      |   | D 62610                |   | 3236.78   | NGVD29                          | 1           |                               | Z                        |                       |
| 1975-01-29 |      |   | D 62611                |   | 3238.45   | NAVD88                          | 1           |                               | Z                        |                       |
| 1975-01-29 |      |   | D 72019                | 24.55   |   |                                 | 1           |                               | Z                        |                       |
| 1977-01-14 |      |   | D 62610                |   | 3226.40   | NGVD29                          | 1           |                               | Z                        |                       |
| 1977-01-14 |      |   | D 62611                |   | 3228.07   | NAVD88                          | 1           |                               | Z                        |                       |
| 1977-01-14 |      |   | D 72019                | 34.93   |   |                                 | 1           |                               | Z                        |                       |
| 1978-01-26 |      |   | D 62610                |   | 3234.51   | NGVD29                          | 1           |                               | Z                        |                       |
| 1978-01-26 |      |   | D 62611                |   | 3236.18   | NAVD88                          | 1           |                               | Z                        |                       |
| 1978-01-26 |      |   | D 72019                | 26.82   |   |                                 | 1           |                               | Z                        |                       |
| 1979-01-22 |      |   | D 62610                |   | 3237.43   | NGVD29                          | 1           |                               | Z                        |                       |
| 1979-01-22 |      |   | D 62611                |   | 3239.10   | NAVD88                          | 1           |                               | Z                        |                       |

| 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 |
|----------------------|------|--------------------------------|----------------|--------------------------------------|---|---------------------------|--------|
| 1979-01-22           | D    | 72019                          | 23.90          |                                      | 1   | Z                         |        |
| 1983-01-10           | D    | 62610                          | 3228.60        | NGVD29                               | 1   | Z                         |        |
| 1983-01-10           | D    | 62611                          | 3230.27        | NAVD88                               | 1   | Z                         |        |
| 1983-01-10           | D    | 72019                          | 32.73          |                                      | 1   | Z                         |        |
| 1988-02-10           | D    | 62610                          | 3237.33        | NGVD29                               | 1   | Z                         |        |
| 1988-02-10           | D    | 62611                          | 3239.00        | NAVD88                               | 1   | Z                         |        |
| 1988-02-10           | D    | 72019                          | 24.00          |                                      | 1   | Z                         |        |
| 1993-02-05           | D    | 62610                          | 3236.12        | NGVD29                               | 1   | S                         |        |
| 1993-02-05           | D    | 62611                          | 3237.79        | NAVD88                               | 1   | S                         |        |
| 1993-02-05           | D    | 72019                          | 25.21          |                                      | 1   | S                         |        |
| 1998-01-06           | D    | 62610                          | 3225.05        | NGVD29                               | 1   | S                         |        |
| 1998-01-06           | D    | 62611                          | 3226.72        | NAVD88                               | 1   | S                         |        |
| 1998-01-06           | D    | 72019                          | 36.28          |                                      | 1   | S                         |        |
| 2003-02-04           | D    | 62610                          | 3235.69        | NGVD29                               | 1   | S                         | USGS   |
| 2003-02-04           | D    | 62611                          | 3237.36        | NAVD88                               | 1   | S                         | USGS   |
| 2003-02-04           | D    | 72019                          | 25.64          |                                      | 1   | S                         | USGS   |
| 2013-01-08 23:00 UTC | m    | 62610                          | 3226.91        | NGVD29                               | 1   | S                         | USGS   |
| 2013-01-08 23:00 UTC | m    | 62611                          | 3228.58        | NAVD88                               | 1   | S                         | USGS   |
| 2013-01-08 23:00 UTC | m    | 72019                          | 34.42          |                                      | 1   | S                         | USGS   |
| 2022-01-12 17:00 UTC | m    | 62610                          | 3231.04        | NGVD29                               | 1   | S                         | USGS   |
| 2022-01-12 17:00 UTC | m    | 62611                          | 3232.71        | NAVD88                               | 1   | S                         | USGS   |
| 2022-01-12 17:00 UTC | m    | 72019                          | 30.29          |                                      | 1   | S                         | 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   |
| Method of measurement          | S      | Steel-tape measurement.                                      |
| Method of measurement          | Z      | Other.   |
| 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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| Date | Time | ?<br>Water-level<br>date-time<br>accuracy | ?<br>Parameter<br>code | Water<br>level,<br>feet<br>below<br>land<br>surface | Water<br>level,<br>feet<br>above<br>specific<br>vertical<br>datum | Referenced<br>vertical<br>datum | ?<br>S |
|------|------|---|------------------------|---|---|---------------------------------|--------|
|------|------|---|------------------------|---|---|---------------------------------|--------|



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Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 321212104151701

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

USGS 321212104151701 24S.26E.23.421212

Eddy County, New Mexico  
Latitude 32°12'12", Longitude 104°15'17" NAD27  
Land-surface elevation 3,261 feet above NAVD88  
The depth of the well is 57 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

| Date       | Time | ?<br>Water-level date-time accuracy | ?<br>Parameter code | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ?<br>Status | ?<br>Method of measurement | ?<br>Measuring agency | ?<br>Source of measurement |
|------------|------|-------------------------------------|---------------------|--------------------------------------|---|---------------------------|-------------|----------------------------|-----------------------|----------------------------|
| 1947-10-27 |      |                                     | D                   | 62610                                | 3215.18   | NGVD29                    | 1           | Z                          |                       |                            |
| 1947-10-27 |      |                                     | D                   | 62611                                | 3216.85   | NAVD88                    | 1           | Z                          |                       |                            |
| 1947-10-27 |      |                                     | D                   | 72019                                | 44.15   |                           | 1           | Z                          |                       |                            |

Explanation

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

| Section                     | Code | Description  |
|-----------------------------|------|--|
| Method of measurement       | Z    | Other.   |
| Measuring agency            |      | Not determined   |
| Source of measurement       |      | Not determined   |
| 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: 2023-05-15 17:18:29 EDT  
0.27 0.23 nadww02



# 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 00928</a>      | C            | ED    |        | 1    | 1    | 23  | 24S | 26E |     | 568806 | 3563757* | 262      | 91         | 7           | 84           |
| <a href="#">C 00369</a>      | C            | CUB   | ED     | 2    | 1    | 23  | 24S | 26E |     | 569207 | 3563757* | 555      |            |             |              |
| <a href="#">C 04365 POD1</a> | C            | ED    |        | 4    | 2    | 4   | 14  | 24S | 26E | 569455 | 3564422  | 858      |            |             |              |
| <a href="#">C 00517</a>      | C            | ED    |        | 1    | 3    | 2   | 23  | 24S | 26E | 569498 | 3563456* | 959      | 80         | 31          | 49           |
| <a href="#">C 00396</a>      | C            | CUB   | ED     | 2    | 2    | 23  | 24S | 26E |     | 570003 | 3563758* | 1317     | 2032       |             |              |
| <a href="#">C 00829</a>      | C            | ED    |        | 1    | 4    | 23  | 24S | 26E |     | 569591 | 3562957* | 1366     | 50         | 19          | 31           |
| <a href="#">C 03675</a>      | C            | ED    |        | 2    | 2    | 2   | 23  | 24S | 26E | 570134 | 3563860  | 1433     | 59         | 38          | 21           |
| <a href="#">C 01085</a>      | C            | ED    |        | 4    | 2    | 23  | 24S | 26E |     | 569990 | 3563356* | 1435     | 127        | 60          | 67           |
| <a href="#">C 03414 POD1</a> | C            | ED    |        | 3    | 1    | 2   | 14  | 24S | 26E | 569513 | 3565188  | 1435     | 80         | 60          | 20           |
| <a href="#">C 03414 POD1</a> | R            | C     | ED     | 3    | 1    | 2   | 14  | 24S | 26E | 569513 | 3565188  | 1435     | 80         | 60          | 20           |
| <a href="#">C 03414 POD2</a> | C            | ED    |        | 3    | 1    | 2   | 14  | 24S | 26E | 569509 | 3565257  | 1490     | 100        | 32          | 68           |
| <a href="#">C 03110</a>      | C            | ED    |        | 4    | 1    | 4   | 23  | 24S | 26E | 569690 | 3562856* | 1507     | 35         | 12          | 23           |
| <a href="#">C 00755</a>      | C            | ED    |        | 4    | 1    | 15  | 24S | 26E |     | 567564 | 3564984* | 1508     | 270        |             |              |
| <a href="#">C 00883</a>      | C            | ED    |        | 3    | 2    | 4   | 23  | 24S | 26E | 569887 | 3562855* | 1643     | 60         | 14          | 46           |
| <a href="#">C 01616</a>      | C            | ED    |        | 2    | 4    | 23  | 24S | 26E |     | 569988 | 3562956* | 1652     | 84         | 84          | 0            |
| <a href="#">C 01869</a>      | R            | C     | ED     | 2    | 3    | 4   | 23  | 24S | 26E | 569753 | 3562679  | 1684     | 110        | 30          | 80           |
| <a href="#">C 01869 POD2</a> | C            | ED    |        | 2    | 3    | 4   | 23  | 24S | 26E | 569753 | 3562679  | 1684     | 111        | 50          | 61           |
| <a href="#">C 03526 POD1</a> | C            | ED    |        | 1    | 4    | 4   | 23  | 24S | 26E | 569788 | 3562666  | 1716     | 200        |             |              |
| <a href="#">C 00692</a>      | C            | ED    |        | 3    | 3    | 1   | 24  | 24S | 26E | 570281 | 3563253* | 1741     | 50         | 42          | 8            |
| <a href="#">C 00100 A</a>    | CUB          | ED    |        | 1    | 1    | 3   | 24  | 24S | 26E | 570284 | 3563053  | 1838     | 51         | 26          | 25           |
| <a href="#">C 00949</a>      | C            | ED    |        | 1    | 1    | 3   | 24  | 24S | 26E | 570284 | 3563053* | 1838     | 62         | 35          | 27           |
| <a href="#">C 00262</a>      | R            | C     | ED     | 4    | 3    | 1   | 24  | 24S | 26E | 570481 | 3563253* | 1924     | 50         |             |              |
| <a href="#">C 00690</a>      | C            | ED    |        | 1    | 3    | 3   | 24  | 24S | 26E | 570288 | 3562653* | 2076     | 30         | 10          | 20           |
| <a href="#">C 02043</a>      | C            | ED    |        | 2    | 1    | 24  | 24S | 26E |     | 570805 | 3563758* | 2111     | 42         | 28          | 14           |
| <a href="#">C 00262 POD2</a> | C            | ED    |        | 4    | 3    | 1   | 24  | 24S | 26E | 570234 | 3562337  | 2256     | 45         | 18          | 27           |
| <a href="#">C 00792</a>      | C            | ED    |        | 4    | 2    | 27  | 24S | 26E |     | 568397 | 3561747* | 2274     | 70         | 30          | 40           |

\*UTM location was derived from PLSS - see Help



(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 6 | Q 4 | Q 16 | Sec | Tws | Rng | X      | Y        | Distance | Depth Well | Depth Water | Water Column |
|------------------------------|--------------|-------|--------|-----|-----|------|-----|-----|-----|--------|----------|----------|------------|-------------|--------------|
| <a href="#">C 00293</a>      | C            |       | ED     | 3   | 2   | 3    | 10  | 24S | 26E | 567445 | 3566100* | 2450     | 250        |             |              |
| <a href="#">C 03777 POD1</a> | C            |       | ED     | 3   | 1   | 2    | 24  | 24S | 26E | 571120 | 3563571  | 2450     | 55         | 28          | 27           |
| <a href="#">C 03192</a>      | C            |       | ED     | 1   | 2   | 1    | 13  | 24S | 26E | 570697 | 3565474* | 2475     | 200        |             |              |
| <a href="#">C 02174</a>      | C            |       | ED     |     |     | 2    | 10  | 24S | 26E | 568143 | 3566804* | 2860     | 263        | 233         | 30           |
| <a href="#">C 04360 POD1</a> | C            |       | ED     | 3   | 3   | 3    | 18  | 24S | 27E | 571910 | 3564085  | 3203     | 72         | 40          | 32           |
| <a href="#">C 03560 POD1</a> | C            |       | ED     | 2   | 3   | 3    | 18  | 24S | 27E | 572009 | 3564150  | 3304     | 68         | 28          | 40           |
| <a href="#">C 00929</a>      | C            |       | ED     |     | 3   | 3    | 18  | 24S | 27E | 572013 | 3564159* | 3309     | 54         | 33          | 21           |
| <a href="#">C 00819</a>      | C            |       | ED     |     | 4   | 4    | 26  | 24S | 26E | 570022 | 3560935* | 3335     | 62         | 42          | 20           |
| <a href="#">C 04586 POD1</a> | C            |       | ED     | 4   | 1   | 1    | 35  | 24S | 26E | 568993 | 3560476  | 3535     | 150        |             |              |
| <a href="#">C 01169</a>      | C            |       | ED     | 1   | 4   | 3    | 18  | 24S | 27E | 572282 | 3564261* | 3583     | 55         | 35          | 20           |

Average Depth to Water: **41 feet**

Minimum Depth: **7 feet**

Maximum Depth: **233 feet**

Record Count: 36

**UTM NAD83 Radius Search (in meters):**

**Easting (X):** 568707.67

**Northing (Y):** 3564000.11

**Radius:** 4000

\*UTM location was derived from PLSS - see Help

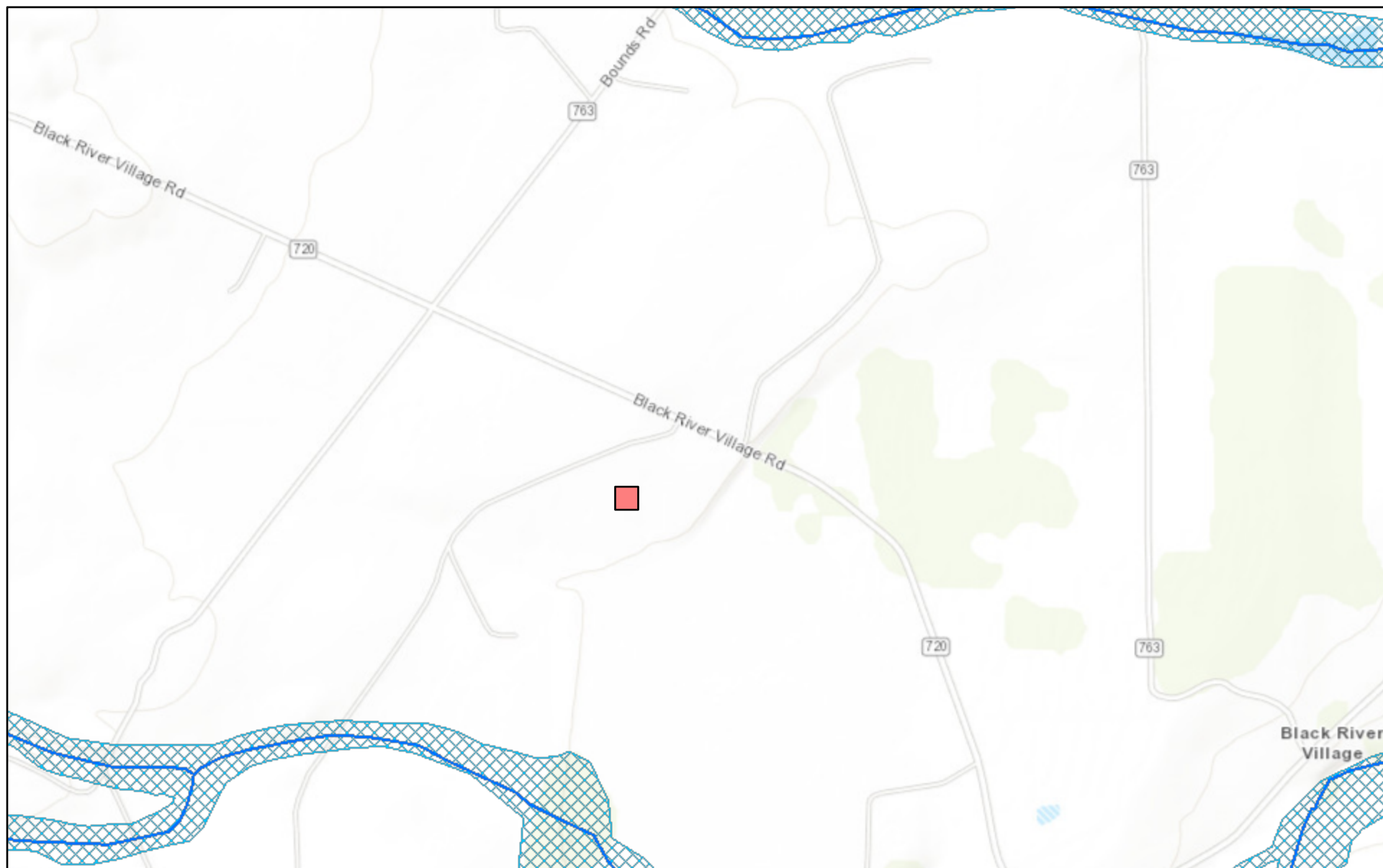
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/15/23 2:52 PM

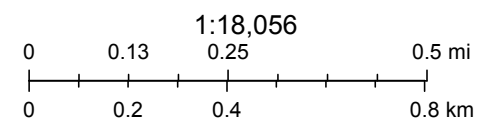
Page 2 of 2

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

# New Mexico NFHL Data



May 15, 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

May 15, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: BRADLEY 14-11 FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 05/10/23 13:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/10/2023  
 Reported: 05/15/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: T - 1 (0-1') (H232328-01)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.09 | 105        | 2.00          | 5.29 |           |
| Toluene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.15 | 108        | 2.00          | 5.08 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2023 | ND               | 2.11 | 106        | 2.00          | 6.93 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2023 | ND               | 6.61 | 110        | 6.00          | 6.42 |           |
| Total BTX      | <0.300 | 0.300           | 05/12/2023 | ND               |      |            |               |      |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 4960   | 16.0            | 05/11/2023 | ND              | 432 | 108        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 05/11/2023 | ND              | 193 | 96.6       | 200           | 0.452 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/11/2023 | ND              | 175 | 87.5       | 200           | 2.19  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/11/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/10/2023  
 Reported: 05/15/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: T - 1 (1'-1.5') (H232328-02)**

| 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           | 05/12/2023 | ND               | 2.09 | 105        | 2.00          | 5.29 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.15 | 108        | 2.00          | 5.08 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2023 | ND               | 2.11 | 106        | 2.00          | 6.93 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2023 | ND               | 6.61 | 110        | 6.00          | 6.42 |           |  |
| Total BTEX     | <0.300 | 0.300           | 05/12/2023 | 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             | 288    | 16.0            | 05/11/2023 | 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            | 05/11/2023 | ND              | 193 | 96.6       | 200           | 0.452 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/11/2023 | ND              | 175 | 87.5       | 200           | 2.19  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/11/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 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: 05/10/2023  
 Reported: 05/15/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: T - 1 (1.5'-2') (H232328-03)**

| 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           | 05/12/2023 | ND               | 2.09 | 105        | 2.00          | 5.29 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.15 | 108        | 2.00          | 5.08 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2023 | ND               | 2.11 | 106        | 2.00          | 6.93 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2023 | ND               | 6.61 | 110        | 6.00          | 6.42 |           |  |
| Total BTEx     | <0.300 | 0.300           | 05/12/2023 | ND               |      |            |               |      |           |  |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 272    | 16.0            | 05/11/2023 | ND              | 432 | 108        | 400           | 3.77 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 05/11/2023 | ND              | 193 | 96.6       | 200           | 0.452 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/11/2023 | ND              | 175 | 87.5       | 200           | 2.19  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/11/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 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: 05/10/2023  
 Reported: 05/15/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/09/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: T - 1 (2'-3') (H232328-04)**

| 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           | 05/12/2023 | ND               | 2.09 | 105        | 2.00          | 5.29 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.15 | 108        | 2.00          | 5.08 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2023 | ND               | 2.11 | 106        | 2.00          | 6.93 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2023 | ND               | 6.61 | 110        | 6.00          | 6.42 |           |  |
| Total BTEx     | <0.300 | 0.300           | 05/12/2023 | ND               |      |            |               |      |           |  |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 112    | 16.0            | 05/11/2023 | 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            | 05/11/2023 | ND              | 193 | 96.6       | 200           | 0.452 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/11/2023 | ND              | 175 | 87.5       | 200           | 2.19  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/11/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 05/10/2023  
 Reported: 05/15/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: T - 2 (0-1') (H232328-05)**

| 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           | 05/12/2023 | ND               | 2.09 | 105        | 2.00          | 5.29 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.15 | 108        | 2.00          | 5.08 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2023 | ND               | 2.11 | 106        | 2.00          | 6.93 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2023 | ND               | 6.61 | 110        | 6.00          | 6.42 |           |  |
| Total BTEx     | <0.300 | 0.300           | 05/12/2023 | ND               |      |            |               |      |           |  |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 112    | 16.0            | 05/11/2023 | 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            | 05/11/2023 | ND              | 193 | 96.6       | 200           | 0.452 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/11/2023 | ND              | 175 | 87.5       | 200           | 2.19  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/11/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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**Analytical Results For:**

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

Received: 05/10/2023  
 Reported: 05/15/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: T - 2 (1'-1.5') (H232328-06)**

| 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           | 05/12/2023 | ND               | 2.09 | 105        | 2.00          | 5.29 |           |
| Toluene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.15 | 108        | 2.00          | 5.08 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2023 | ND               | 2.11 | 106        | 2.00          | 6.93 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2023 | ND               | 6.61 | 110        | 6.00          | 6.42 |           |
| Total BTEx     | <0.300 | 0.300           | 05/12/2023 | ND               |      |            |               |      |           |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 112    | 16.0            | 05/11/2023 | 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            | 05/11/2023 | ND              | 193 | 96.6       | 200           | 0.452 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/11/2023 | ND              | 175 | 87.5       | 200           | 2.19  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/11/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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**Analytical Results For:**

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

Received: 05/10/2023  
 Reported: 05/15/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: T - 2 (1.5'-2') (H232328-07)**

| 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           | 05/12/2023 | ND               | 2.09 | 105        | 2.00          | 5.29 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.15 | 108        | 2.00          | 5.08 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2023 | ND               | 2.11 | 106        | 2.00          | 6.93 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2023 | ND               | 6.61 | 110        | 6.00          | 6.42 |           |  |
| Total BTEx     | <0.300 | 0.300           | 05/12/2023 | ND               |      |            |               |      |           |  |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 64.0   | 16.0            | 05/11/2023 | 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            | 05/11/2023 | ND              | 193 | 96.6       | 200           | 0.452 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/11/2023 | ND              | 175 | 87.5       | 200           | 2.19  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/11/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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: 05/10/2023  
 Reported: 05/15/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: T - 3 (0-1') (H232328-08)**

| 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           | 05/12/2023 | ND               | 2.09 | 105        | 2.00          | 5.29 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.15 | 108        | 2.00          | 5.08 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2023 | ND               | 2.11 | 106        | 2.00          | 6.93 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2023 | ND               | 6.61 | 110        | 6.00          | 6.42 |           |  |
| Total BTEx     | <0.300 | 0.300           | 05/12/2023 | 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             | 64.0   | 16.0            | 05/11/2023 | 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            | 05/11/2023 | ND              | 193 | 96.6       | 200           | 0.452 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/11/2023 | ND              | 175 | 87.5       | 200           | 2.19  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/11/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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**Analytical Results For:**

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

Received: 05/10/2023  
 Reported: 05/15/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: T - 3 (1'-1.5') (H232328-09)**

| 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           | 05/12/2023 | ND               | 2.09 | 105        | 2.00          | 5.29 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.15 | 108        | 2.00          | 5.08 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2023 | ND               | 2.11 | 106        | 2.00          | 6.93 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2023 | ND               | 6.61 | 110        | 6.00          | 6.42 |           |  |
| Total BTEX     | <0.300 | 0.300           | 05/12/2023 | ND               |      |            |               |      |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 16.0   | 16.0            | 05/11/2023 | 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            | 05/11/2023 | ND              | 193 | 96.6       | 200           | 0.452 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/11/2023 | ND              | 175 | 87.5       | 200           | 2.19  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/11/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148

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**Analytical Results For:**

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

Received: 05/10/2023  
 Reported: 05/15/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: T - 3 (1.5'-2') (H232328-10)**

| 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           | 05/12/2023 | ND               | 2.09 | 105        | 2.00          | 5.29 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.15 | 108        | 2.00          | 5.08 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2023 | ND               | 2.11 | 106        | 2.00          | 6.93 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2023 | ND               | 6.61 | 110        | 6.00          | 6.42 |           |  |
| Total BTEx     | <0.300 | 0.300           | 05/12/2023 | ND               |      |            |               |      |           |  |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | <16.0  | 16.0            | 05/11/2023 | 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            | 05/11/2023 | ND              | 193 | 96.6       | 200           | 0.452 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/11/2023 | ND              | 175 | 87.5       | 200           | 2.19  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/11/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 108 % 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: 05/10/2023  
 Reported: 05/15/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: T - 4 (0-1') (H232328-11)**

| 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           | 05/12/2023 | ND               | 2.09 | 105        | 2.00          | 5.29 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.15 | 108        | 2.00          | 5.08 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2023 | ND               | 2.11 | 106        | 2.00          | 6.93 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2023 | ND               | 6.61 | 110        | 6.00          | 6.42 |           |  |
| Total BTEx     | <0.300 | 0.300           | 05/12/2023 | 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             | <16.0  | 16.0            | 05/11/2023 | 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            | 05/11/2023 | ND              | 193 | 96.6       | 200           | 0.452 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/11/2023 | ND              | 175 | 87.5       | 200           | 2.19  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/11/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 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: 05/10/2023  
 Reported: 05/15/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: T - 4 (1'-1.5') (H232328-12)**

| 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           | 05/12/2023 | ND               | 2.09 | 105        | 2.00          | 5.29 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.15 | 108        | 2.00          | 5.08 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2023 | ND               | 2.11 | 106        | 2.00          | 6.93 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2023 | ND               | 6.61 | 110        | 6.00          | 6.42 |           |  |
| Total BTEX     | <0.300 | 0.300           | 05/12/2023 | 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             | <16.0  | 16.0            | 05/11/2023 | 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            | 05/11/2023 | ND              | 193 | 96.6       | 200           | 0.452 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/11/2023 | ND              | 175 | 87.5       | 200           | 2.19  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/11/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.3 % 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: 05/10/2023  
 Reported: 05/15/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: T - 4 (1.5'-2') (H232328-13)**

| 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           | 05/12/2023 | ND               | 2.09 | 105        | 2.00          | 5.29 |           |
| Toluene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.15 | 108        | 2.00          | 5.08 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2023 | ND               | 2.11 | 106        | 2.00          | 6.93 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2023 | ND               | 6.61 | 110        | 6.00          | 6.42 |           |
| Total BTEX     | <0.300 | 0.300           | 05/12/2023 | ND               |      |            |               |      |           |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | <16.0  | 16.0            | 05/11/2023 | 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            | 05/11/2023 | ND              | 210 | 105        | 200           | 3.63 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/11/2023 | ND              | 204 | 102        | 200           | 5.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/11/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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### Notes and Definitions

|       |  |
|-------|--|
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.                               |
| 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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

## Chain of Custody

Work Order No.:

H232322

Page 1 of 2

Page 16 of 17



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

|                     |                                    |                                      |                                    |
|---------------------|------------------------------------|--------------------------------------|------------------------------------|
| Work Order Comments |                                    |                                      |                                    |
| Program: UST/PST    | <input type="checkbox"/> PRP       | <input type="checkbox"/> Brownfields | <input type="checkbox"/> JRC       |
| State of Project:   | <input type="checkbox"/> Level I   | <input type="checkbox"/> Level II    | <input type="checkbox"/> Level III |
| Reporting Level II  | <input type="checkbox"/> Level III | <input type="checkbox"/> ST/UST      | <input type="checkbox"/> RRP       |
| Deliverables: EDD   | <input type="checkbox"/> ADAPT     | <input type="checkbox"/> Other:      |                                    |

|                       |                          |             |   |                               |            |                  |  |  |  |  |  |  |  |  |  |   |   |
|-----------------------|--------------------------|-------------|---|-------------------------------|------------|------------------|--|--|--|--|--|--|--|--|--|---|---|
| Project Name:         | Bradley 14-11 Fed Com 1H | Turn Around | <input checked="" type="checkbox"/> Routine | <input type="checkbox"/> Rush | Pres. Code | ANALYSIS REQUEST |  |  |  |  |  |  |  |  |  | Preservative Codes                              |   |
| Project Number:       | 2019                     | Due Date:   |   | Normal                        |            |                  |  |  |  |  |  |  |  |  |  | None: NO  |   |
| Project Location:     | Eddy County, New Mexico  |             |   |                               |            |                  |  |  |  |  |  |  |  |  |  | Cool: Cool                                      |   |
| Sample's Name:        | GPI & KB                 |             |   |                               |            |                  |  |  |  |  |  |  |  |  |  | HCL: HC   |   |
| PO #:                 |                          |             |   |                               |            |                  |  |  |  |  |  |  |  |  |  | H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> |   |
| SAMPLE RECEIPT        | Temp Blank:              | Yes         | No  | Wet Ice:                      | Yes        | No               |  |  |  |  |  |  |  |  |  |   | H <sub>3</sub> PO <sub>4</sub> : HP                               |
| Received Intact:      | Yes                      | No          | Thermometer ID:                             |                               |            |                  |  |  |  |  |  |  |  |  |  |   | NaHSO <sub>4</sub> : NABIS  |
| Cooler Custody Seals: | Yes                      | No          | Correction Factor:                          |                               |            |                  |  |  |  |  |  |  |  |  |  |   | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> |
| Sample Custody Seals: | Yes                      | No          | Temperature Reading:                        |                               |            |                  |  |  |  |  |  |  |  |  |  |   | Zn Acetate+NaOH: Zn   |
| Total Containers:     |                          |             | Corrected Temperature:                      |                               |            |                  |  |  |  |  |  |  |  |  |  |   | NaOH+Ascorbic Acid: SPC   |

| Sample Identification | Date      | Time | Soil | Water | Grab/Comp | # of Cont | BTEX 8021B | TPH 8015M ( GRO + DRO + MRO) | Chloride 4500 | Hold | Sample Comments |
|-----------------------|-----------|------|------|-------|-----------|-----------|------------|------------------------------|---------------|------|-----------------|
| T-1 (0-1')            | 5/9/2023  |      | X    |       | G         | 1         | X          | X                            | X             |      |                 |
| T-1 (1'-1.5')         | 5/9/2023  |      | X    |       | G         | 1         | X          | X                            | X             |      |                 |
| T-1 (1.5'-2')         | 5/9/2023  |      | X    |       | G         | 1         | X          | X                            | X             |      |                 |
| T-1 (2'-3')           | 5/9/2023  |      | X    |       | G         | 1         | X          | X                            | X             |      |                 |
| T-2 (0-1')            | 5/10/2023 |      | X    |       | G         | 1         | X          | X                            | X             |      |                 |
| T-2 (1'-1.5')         | 5/10/2023 |      | X    |       | G         | 1         | X          | X                            | X             |      |                 |
| T-2 (1.5'-2')         | 5/10/2023 |      | X    |       | G         | 1         | X          | X                            | X             |      |                 |
| T-3 (0-1')            | 5/10/2023 |      | X    |       | G         | 1         | X          | X                            | X             |      |                 |
| T-3 (1'-1.5')         | 5/10/2023 |      | X    |       | G         | 1         | X          | X                            | X             |      |                 |
| T-3 (1.5'-2')         | 5/10/2023 |      | X    |       | G         | 1         | X          | X                            | X             |      |                 |

Comments:

|  |              |   |           |
|--|--------------|---|-----------|
| Relinquished by: (Signature)   | Date/Time    | Received by: (Signature)  | Date/Time |
|  | 5-10-23 1308 |  |           |



Chain of Custody


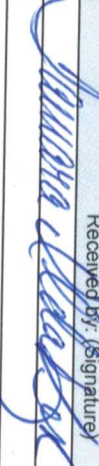
Work Order No: 423233

|                  |                       |                         |   |
|------------------|-----------------------|-------------------------|---|
| Project Manager: | Ashton Thielke        | Bill to: (if different) | Laci Luig   |
| Company Name:    | Cammona Resources     | Company Name:           | Cimarex Energy  |
| Address:         | 310 W Wall St Ste 500 | Address:                | 600 N Marlenfield St, Suite 600   |
| City, State ZIP: | Midland, TX 79701     | City, State ZIP:        | Midland, TX 79701   |
| Phone:           | 432-813-8988          | Email:                  | <a href="mailto:laci.luig@coterra.com">laci.luig@coterra.com</a> <a href="mailto:ashton.thielke@coterra.com">ashton.thielke@coterra.com</a> |

|   |  |
|---|--|
| Work Order Comments   |  |
| Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>   |  |
| State of Project:   |  |
| Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/> |  |
| Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:  |  |

|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|-------------------------------|---|---|-------------------|------------|------------------|-----------|-----------|------------------------------|--|--|--|--|--|--|--|--|--------------------|----------------------------|--|--|
| Project Name: 4-11 Fed Com 1H |   | Turn Around   |                   | Pres. Code | ANALYSIS REQUEST |           |           |                              |  |  |  |  |  |  |  |  | Preservative Codes |                            |  |  |
| Project Number: 2019          | Project Location: Eddy County, New Mexico | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Due Date: Normal  |            |                  |           |           |                              |  |  |  |  |  |  |  |  | None: NO           | DI Water: H <sub>2</sub> O |  |  |
| Sampler's Name: GPU & KB      | PO #:                                     |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  | Cool: Cool         | MeOH: Me                   |  |  |
| SAMPLE RECEIPT                |   | Temp Blank: (Yes) No  | Wet Ice: (Yes) No |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
| Received Intact: (Yes) No     |   | Thermometer ID: 113   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
| Cooler Custody Seals: Yes No  |   | Correction Factor: -0.6%  |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
| Sample Custody Seals: Yes No  |   | Temperature Reading: 6.3%   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
| Total Containers: 57          |   | Corrected Temperature: 5.7%   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
| Sample Identification         |   | Date  | Time              | Soil       | Water            | Grab/Comp | # of Cont | Parameters                   |  |  |  |  |  |  |  |  |                    |                            |  |  |
| T-4 (0-1')                    |   | 5/10/2023   |                   | X          |                  | G         | 1         | BTX 8021B                    |  |  |  |  |  |  |  |  |                    |                            |  |  |
| T-4 (1'-1.5')                 |   | 5/10/2023   |                   | X          |                  | G         | 1         | TPH 8015M ( GRO + DRO + MRO) |  |  |  |  |  |  |  |  |                    |                            |  |  |
| T-4 (1.5'-2')                 |   | 5/10/2023   |                   | X          |                  | G         | 1         | Chloride 4500                |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |
|                               |   |   |                   |            |                  |           |           |                              |  |  |  |  |  |  |  |  |                    |                            |  |  |

Comments:

|   |              |   |           |
|---|--------------|---|-----------|
| Relinquished by: (Signature)  | Date/Time    | Received by: (Signature)  | Date/Time |
|  | 5-10-23 1308 |  |           |



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

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May 15, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: BRADLEY 14-11 FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 05/10/23 13:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 05/10/2023  
 Reported: 05/15/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 1 (0-0.5') (H232329-01)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.09 | 105        | 2.00          | 5.29 |           |
| Toluene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.15 | 108        | 2.00          | 5.08 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2023 | ND               | 2.11 | 106        | 2.00          | 6.93 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2023 | ND               | 6.61 | 110        | 6.00          | 6.42 |           |
| Total BTX      | <0.300 | 0.300           | 05/12/2023 | 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             | <16.0  | 16.0            | 05/11/2023 | 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            | 05/11/2023 | ND              | 210 | 105        | 200           | 3.63 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/11/2023 | ND              | 204 | 102        | 200           | 5.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/11/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 05/10/2023  
 Reported: 05/15/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 2 (0-0.5') (H232329-02)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.09 | 105        | 2.00          | 5.29 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.15 | 108        | 2.00          | 5.08 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2023 | ND               | 2.11 | 106        | 2.00          | 6.93 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2023 | ND               | 6.61 | 110        | 6.00          | 6.42 |           |  |
| Total BTX      | <0.300 | 0.300           | 05/12/2023 | ND               |      |            |               |      |           |  |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | <16.0  | 16.0            | 05/11/2023 | 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            | 05/11/2023 | ND              | 210 | 105        | 200           | 3.63 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/11/2023 | ND              | 204 | 102        | 200           | 5.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/11/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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\*=Accredited Analyte

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**Analytical Results For:**

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

Received: 05/10/2023  
 Reported: 05/15/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 3 (0-0.5') (H232329-03)**

| 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           | 05/12/2023 | ND               | 2.09 | 105        | 2.00          | 5.29 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.15 | 108        | 2.00          | 5.08 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2023 | ND               | 2.11 | 106        | 2.00          | 6.93 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2023 | ND               | 6.61 | 110        | 6.00          | 6.42 |           |  |
| Total BTEx     | <0.300 | 0.300           | 05/12/2023 | 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             | 48.0   | 16.0            | 05/11/2023 | 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            | 05/11/2023 | ND              | 210 | 105        | 200           | 3.63 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/11/2023 | ND              | 204 | 102        | 200           | 5.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/11/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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\*=Accredited Analyte

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**Analytical Results For:**

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

Received: 05/10/2023  
 Reported: 05/15/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 4 (0-0.5') (H232329-04)**

| 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           | 05/12/2023 | ND               | 2.09 | 105        | 2.00          | 5.29 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.15 | 108        | 2.00          | 5.08 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2023 | ND               | 2.11 | 106        | 2.00          | 6.93 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2023 | ND               | 6.61 | 110        | 6.00          | 6.42 |           |  |
| Total BTEx     | <0.300 | 0.300           | 05/12/2023 | ND               |      |            |               |      |           |  |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | <16.0  | 16.0            | 05/11/2023 | 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            | 05/11/2023 | ND              | 210 | 105        | 200           | 3.63 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/11/2023 | ND              | 204 | 102        | 200           | 5.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/11/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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**Analytical Results For:**

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

Received: 05/10/2023  
 Reported: 05/15/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 5 (0-0.5') (H232329-05)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.09 | 105        | 2.00          | 5.29 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/12/2023 | ND               | 2.15 | 108        | 2.00          | 5.08 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2023 | ND               | 2.11 | 106        | 2.00          | 6.93 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2023 | ND               | 6.61 | 110        | 6.00          | 6.42 |           |  |
| Total BTX      | <0.300 | 0.300           | 05/12/2023 | ND               |      |            |               |      |           |  |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | <16.0  | 16.0            | 05/11/2023 | 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            | 05/11/2023 | ND              | 210 | 105        | 200           | 3.63 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/11/2023 | ND              | 204 | 102        | 200           | 5.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/11/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 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: 05/10/2023  
 Reported: 05/15/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/10/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 6 (0-0.5') (H232329-06)**

| 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           | 05/11/2023 | ND              | 2.14 | 107        | 2.00          | 17.4 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/11/2023 | ND              | 2.14 | 107        | 2.00          | 16.5 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/11/2023 | ND              | 2.25 | 112        | 2.00          | 16.6 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/11/2023 | ND              | 6.65 | 111        | 6.00          | 17.5 |           |  |
| Total BTEX     | <0.300 | 0.300           | 05/11/2023 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | <16.0  | 16.0            | 05/11/2023 | 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            | 05/11/2023 | ND              | 210 | 105        | 200           | 3.63 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/11/2023 | ND              | 204 | 102        | 200           | 5.00 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/11/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

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

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Celey D. Keene, Lab Director/Quality Manager

Work Order No: H23232



Page 1 of 1

Page 9 of 9

| Work Order Comments |                          |                             |   |                              |                                 |
|---------------------|--------------------------|-----------------------------|---|------------------------------|---------------------------------|
| Program:            | UST/PST                  | <input type="checkbox"/> RP | <input checked="" type="checkbox"/> Brownfields | <input type="checkbox"/> IRC | <input type="checkbox"/> Ipfund |
| State of Project:   |                          |                             |   |                              |                                 |
| Reporting Level II  | <input type="checkbox"/> | Level III                   | <input type="checkbox"/>                        | UST                          | <input type="checkbox"/> RRP    |
|                     |                          |                             |   | Level IV                     | <input type="checkbox"/>        |
| Deliverables:       | EDD                      | <input type="checkbox"/>    | ADAPT   | <input type="checkbox"/>     | Other:                          |

| ANALYSIS REQUEST      |           |  |      |  |       |            |           | Preservative Codes   |  |                            |  |  |  |
|-----------------------|-----------|--|------|--|-------|------------|-----------|--|--|----------------------------|--|--|--|
| Project Name:         |           | Bradley 14-11 Fed Com 1H   |      | Turn Around  |       | Pres. Code |           | None: NO   |  | DI Water: H <sub>2</sub> O |  |  |  |
| Project Number:       |           | 2019   |      | <input checked="" type="checkbox"/> Routine<br><input type="checkbox"/> Rush   |       |            |           | Cool: Cool   |  | MeOH: Me                   |  |  |  |
| Project Location      |           | Eddy County, New Mexico  |      | Due Date:  |       | Normal     |           | HCL: HC  |  | HNO <sub>3</sub> : HN      |  |  |  |
| Sampler's Name:       |           | GPJ & KB   |      |  |       |            |           | H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>                                |  | NaOH: Na                   |  |  |  |
| PO #:                 |           |  |      |  |       |            |           | H <sub>3</sub> PO <sub>4</sub> : HP  |  |                            |  |  |  |
| <b>SAMPLE RECEIPT</b> |           | Temp Blank:  |      | Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> |       | Wet Ice:   |           | Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> |  |                            |  |  |  |
| Received Intact:      |           | <input checked="" type="radio"/> Yes <input checked="" type="radio"/> No     |      | Thermometer ID:  |       |            |           | 113  |  |                            |  |  |  |
| Cooler Custody Seals: |           | Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> N/A |      | Correction Factor:   |       |            |           | -0.06%   |  |                            |  |  |  |
| Sample Custody Seals: |           | Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> N/A |      | Temperature Reading:   |       |            |           | 4.5%   |  |                            |  |  |  |
| Total Containers:     |           |  |      | Corrected Temperature:   |       |            |           | 5.7%   |  |                            |  |  |  |
| Sample Identification |           | Date   | Time | Soil   | Water | Grab/Comp  | # of Cont | Parameters   |  |                            |  |  |  |
| H-1 (0-0.5)           | 5/10/2023 |  |      | X  |       | G          | 1         | BTEX 8021B   |  |                            |  |  |  |
| H-2 (0-0.5)           | 5/10/2023 |  |      | X  |       | G          | 1         | TPH 8015M ( GRO + DRO + MRO)   |  |                            |  |  |  |
| H-3 (0-0.5)           | 5/10/2023 |  |      | X  |       | G          | 1         | Chloride 4500  |  |                            |  |  |  |
| H-4 (0-0.5)           | 5/10/2023 |  |      | X  |       | G          | 1         |  |  |                            |  |  |  |
| H-5 (0-0.5)           | 5/10/2023 |  |      | X  |       | G          | 1         |  |  |                            |  |  |  |
| H-6 (0-0.5)           | 5/10/2023 |  |      | X  |       | G          | 1         |  |  |                            |  |  |  |
| Sample Comments       |           |  |      |  |       |            |           | Hold   |  |                            |  |  |  |

**Comments:**

| Comments:   |                 |
|---|-----------------|
| Relinquished by: (Signature)  | Date/Time       |
|    | 5-10-23 1:38 PM |
| Received by: (Signature)  | Date/Time       |
|  |                 |
|   |                 |
|   |                 |
|   |                 |
|   |                 |



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---

May 26, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: BRADLEY 14-11 FED COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 05/25/23 8:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

|                  |                              |
|------------------|------------------------------|
| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 05/25/2023  
 Reported: 05/26/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 1 (1.5') (H232661-01)**

| 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           | 05/25/2023 | ND               | 2.07 | 104        | 2.00          | 0.915 |           |
| Toluene*       | <0.050 | 0.050           | 05/25/2023 | ND               | 2.04 | 102        | 2.00          | 2.30  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/25/2023 | ND               | 2.18 | 109        | 2.00          | 3.77  |           |
| Total Xylenes* | <0.150 | 0.150           | 05/25/2023 | ND               | 6.47 | 108        | 6.00          | 4.77  |           |
| Total BTEX     | <0.300 | 0.300           | 05/25/2023 | ND               |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 96.0   | 16.0            | 05/25/2023 | ND              | 432 | 108        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 05/25/2023 | ND              | 176 | 87.8       | 200           | 0.899 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/25/2023 | ND              | 181 | 90.3       | 200           | 0.439 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/25/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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**Analytical Results For:**

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

Received: 05/25/2023  
 Reported: 05/26/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 2 (1.5') (H232661-02)**

| 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           | 05/25/2023 | ND               | 2.07 | 104        | 2.00          | 0.915 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/25/2023 | ND               | 2.04 | 102        | 2.00          | 2.30  |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/25/2023 | ND               | 2.18 | 109        | 2.00          | 3.77  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/25/2023 | ND               | 6.47 | 108        | 6.00          | 4.77  |           |  |
| Total BTEx     | <0.300 | 0.300           | 05/25/2023 | ND               |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 128    | 16.0            | 05/25/2023 | 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            | 05/25/2023 | ND              | 176 | 87.8       | 200           | 0.899 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/25/2023 | ND              | 181 | 90.3       | 200           | 0.439 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/25/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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: 05/25/2023  
 Reported: 05/26/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 1 (1.5') (H232661-03)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |       |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/25/2023 | ND               | 2.07 | 104        | 2.00          | 0.915 |           |
| Toluene*       | <0.050 | 0.050           | 05/25/2023 | ND               | 2.04 | 102        | 2.00          | 2.30  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/25/2023 | ND               | 2.18 | 109        | 2.00          | 3.77  |           |
| Total Xylenes* | <0.150 | 0.150           | 05/25/2023 | ND               | 6.47 | 108        | 6.00          | 4.77  |           |
| Total BTX      | <0.300 | 0.300           | 05/25/2023 | ND               |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 416    | 16.0            | 05/25/2023 | 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            | 05/25/2023 | ND              | 176 | 87.8       | 200           | 0.899 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/25/2023 | ND              | 181 | 90.3       | 200           | 0.439 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/25/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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: 05/25/2023  
 Reported: 05/26/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 2 (1.5') (H232661-04)**

| 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           | 05/25/2023 | ND               | 2.07 | 104        | 2.00          | 0.915 |           |
| Toluene*       | <0.050 | 0.050           | 05/25/2023 | ND               | 2.04 | 102        | 2.00          | 2.30  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/25/2023 | ND               | 2.18 | 109        | 2.00          | 3.77  |           |
| Total Xylenes* | <0.150 | 0.150           | 05/25/2023 | ND               | 6.47 | 108        | 6.00          | 4.77  |           |
| Total BTEx     | <0.300 | 0.300           | 05/25/2023 | ND               |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 224    | 16.0            | 05/25/2023 | 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            | 05/25/2023 | ND              | 176 | 87.8       | 200           | 0.899 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/25/2023 | ND              | 181 | 90.3       | 200           | 0.439 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/25/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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: 05/25/2023  
 Reported: 05/26/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 3 (1.5') (H232661-05)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |       |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/25/2023 | ND               | 2.07 | 104        | 2.00          | 0.915 |           |
| Toluene*       | <0.050 | 0.050           | 05/25/2023 | ND               | 2.04 | 102        | 2.00          | 2.30  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/25/2023 | ND               | 2.18 | 109        | 2.00          | 3.77  |           |
| Total Xylenes* | <0.150 | 0.150           | 05/25/2023 | ND               | 6.47 | 108        | 6.00          | 4.77  |           |
| Total BTX      | <0.300 | 0.300           | 05/25/2023 | ND               |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 96.0   | 16.0            | 05/25/2023 | 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            | 05/25/2023 | ND              | 176 | 87.8       | 200           | 0.899 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/25/2023 | ND              | 181 | 90.3       | 200           | 0.439 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/25/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 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: 05/25/2023  
 Reported: 05/26/2023  
 Project Name: BRADLEY 14-11 FED COM 1H  
 Project Number: 2019  
 Project Location: CIMAREX - EDDY CO, NM

Sampling Date: 05/25/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 4 (1.5') (H232661-06)**

| 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           | 05/25/2023 | ND               | 2.07 | 104        | 2.00          | 0.915 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/25/2023 | ND               | 2.04 | 102        | 2.00          | 2.30  |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/25/2023 | ND               | 2.18 | 109        | 2.00          | 3.77  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/25/2023 | ND               | 6.47 | 108        | 6.00          | 4.77  |           |  |
| Total BTEx     | <0.300 | 0.300           | 05/25/2023 | ND               |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 128    | 16.0            | 05/25/2023 | 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            | 05/25/2023 | ND              | 176 | 87.8       | 200           | 0.899 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/25/2023 | ND              | 181 | 90.3       | 200           | 0.439 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/25/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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### Notes and Definitions

|      |  |
|------|--|
| S-06 | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.         |
| 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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

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

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Celey D. Keene, Lab Director/Quality Manager

## Chain of Custody

Work Order No: 47326061



Page 1 of 1

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

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

[illegible]

Comments:

| Relinquished by: (Signature)  | Date/Time | Received by: (Signature)  | Date/Time |
|---|-----------|---|-----------|
|  | 5/23/2015 |  |           |
|   |           |   |           |
|   |           |   |           |
|   |           |   |           |



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 232862

CONDITIONS

|   |   |
|---|---|
| Operator:<br>CIMAREX ENERGY CO.<br>6001 Deauville Blvd<br>Midland, TX 79706 | OGRID:<br>215099  |
|   | Action Number:<br>232862                                  |
|   | Action Type:<br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

|            |           |                |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| scwells    | None      | 12/6/2023      |