



SITE INFORMATION

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

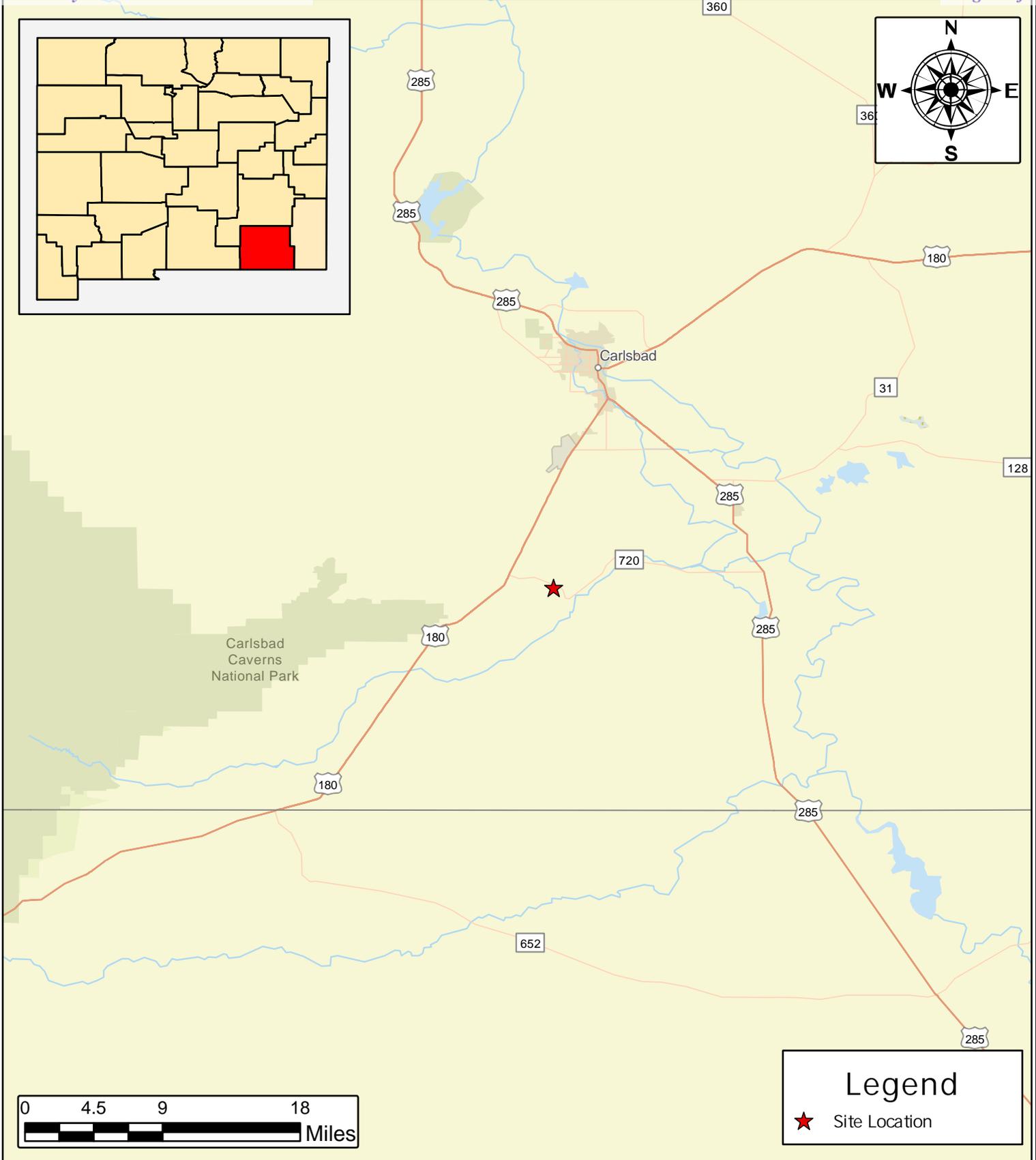
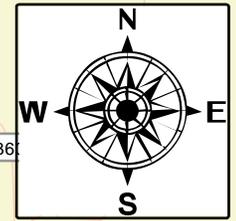
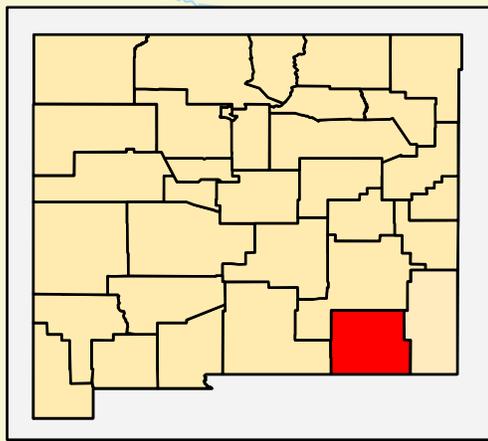
Ashton Thielke
Sr. Project Manager

Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES





Legend

★ Site Location

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

CARMONA RESOURCES 

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

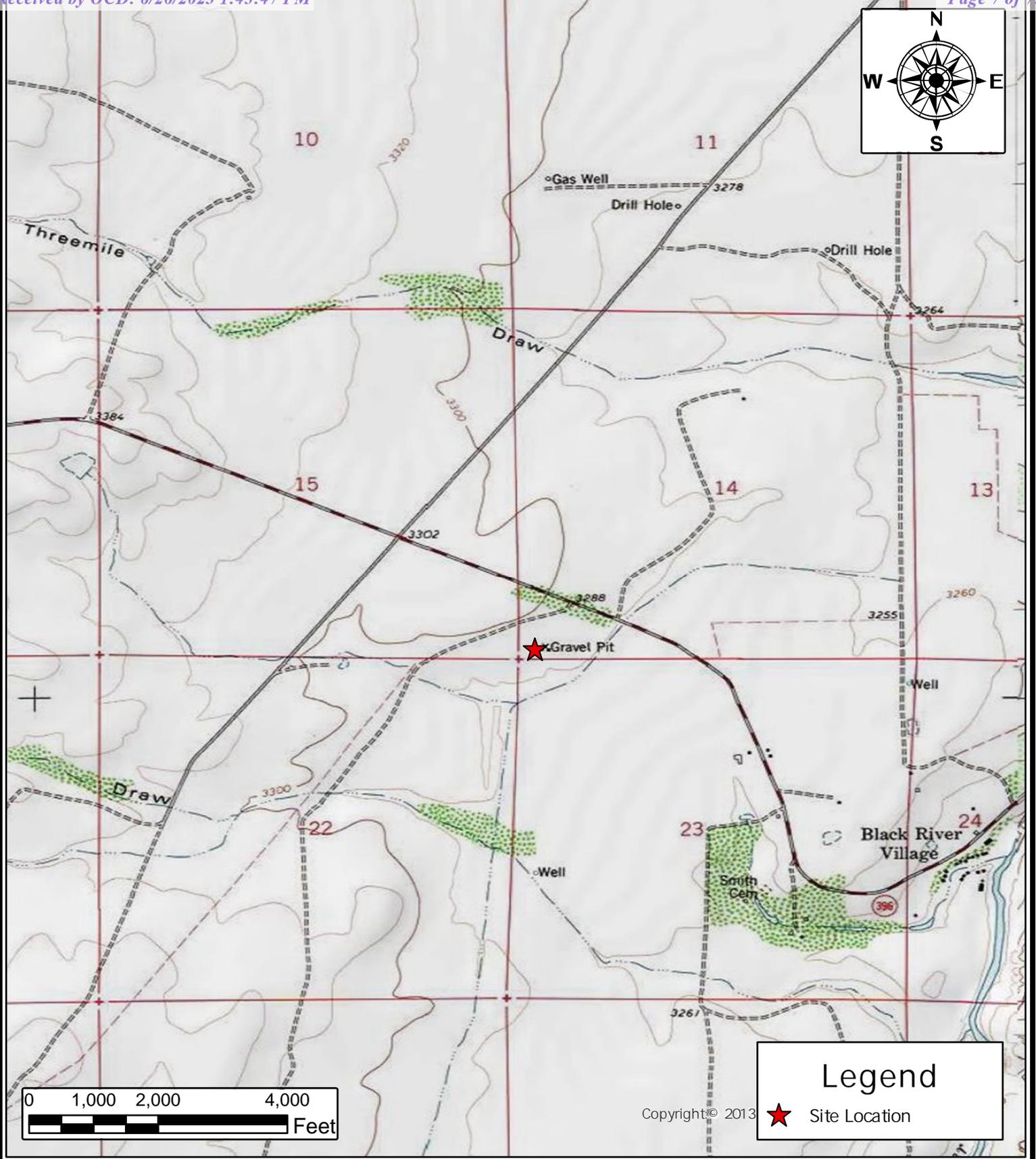
NOTES:

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

DRAWING NUMBER:
FIGURE 1

SHEET NUMBER:
 1 of 1

SCALE: As Shown Date: 5/25/2023



Legend

★ Site Location

Copyright © 2013

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

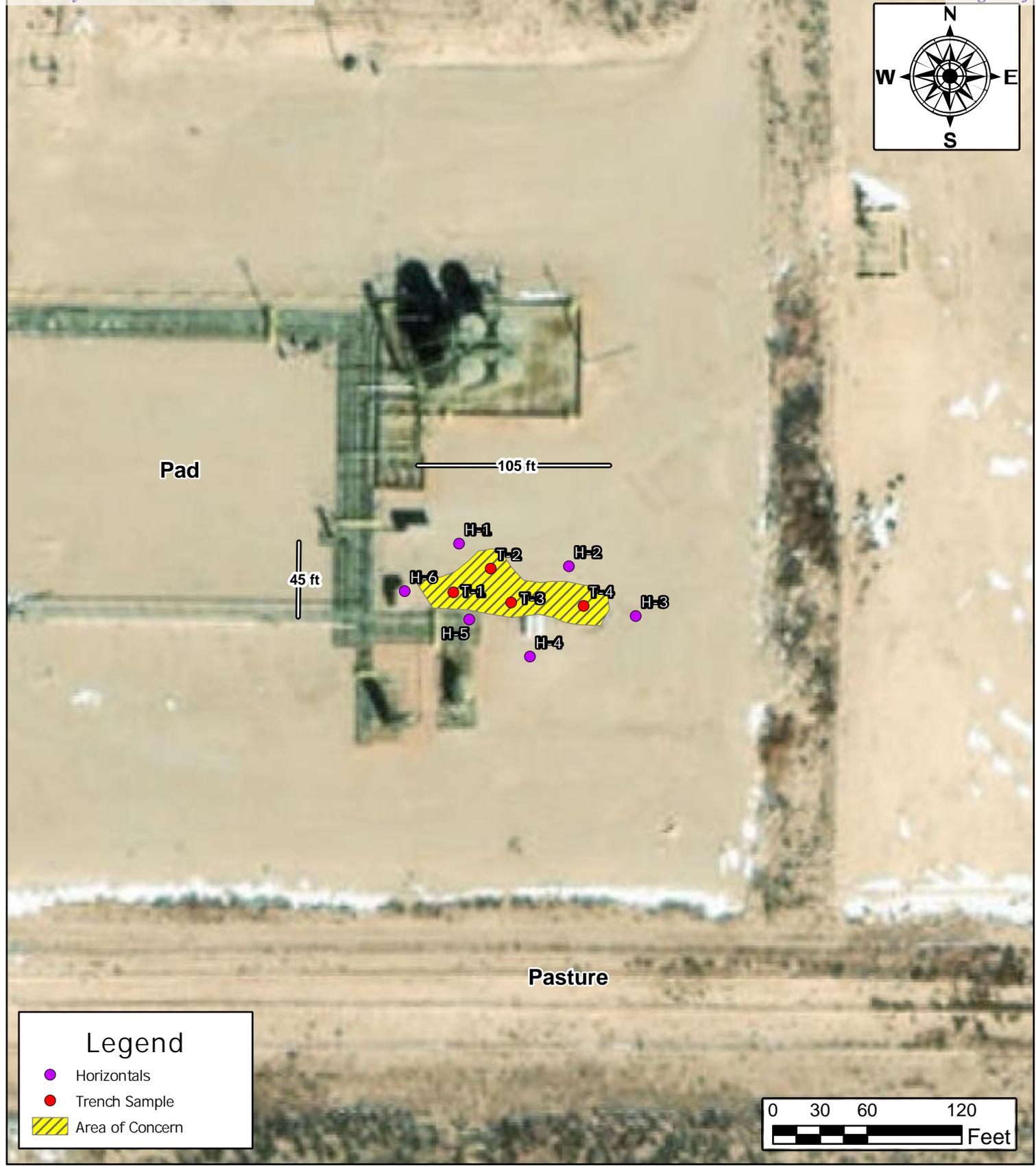
SCALE: As Shown Date: 5/25/2023


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

NOTES:

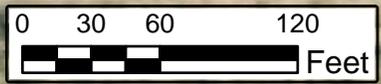
1. Base Image: ESRI Maps & Data 2023
2. Map Projection: WGS84

DRAWING NUMBER:
FIGURE 2
 SHEET NUMBER:
 1 of 1



Legend

- Horizontal
- Trench Sample
- Area of Concern



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


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:

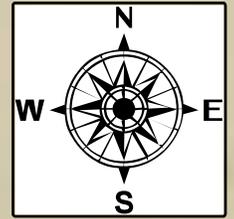
FIGURE 3

SHEET NUMBER:

1 of 1

SCALE: As Shown

Date: 5/31/2023



Pad

20 ft

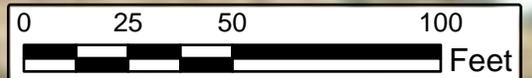
CS-1 CS-2

10 ft

Legend

● Confirmation Sample

▨ 1.5' Excavation



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



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:

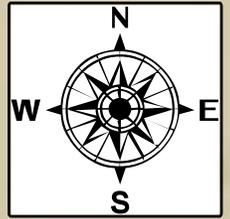
FIGURE 4A

SHEET NUMBER:

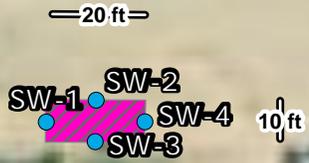
1 of 2

SCALE: As Shown

Date: 5/26/2023



Pad



Legend

- Sidewall Sample
- ▨ 1.5' Excavation



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



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

SCALE: As Shown

Date: 5/26/2023

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						
T-1	5/10/2023	0-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,960
	"	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
T-2	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
T-3	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
T-4	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
H-1	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
H-2	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
H-3	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
H-4	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
H-5	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
H-6	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
<i>Regulatory Criteria^A</i>						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – 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 (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	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
CS-2	5/25/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-1	5/25/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
SW-2	5/25/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
SW-3	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
SW-4	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^A</i>						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – 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 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.

State of New Mexico
Oil Conservation Division

Incident ID	NRM2025344424
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
---	--

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
 By: Gloria Garza
 To: Mike Bratcher, Robert Hamlet, Victoria Venegas, Christina Eads and BLM NM CFO Spill
 By: Email

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
--

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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: Laci Luig _____ Title: Engineer Tech. _____
 Signature:  _____ Date: 9/4/2020 _____
 email: llug@cimarex.com _____ Telephone: (432) 571-7810 _____

OCD Only
 Received by: Ramona Marcus _____ Date: 9/9/2020 _____

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 not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: *[Handwritten 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: *Shelly Wells* 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
[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 25th, 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 | www.coterra.com

Coterra Energy Inc. | 6000 Deauville Blvd., Suite 300N | Midland, TX 79706

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

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APPENDIX D

CARMONA RESOURCES

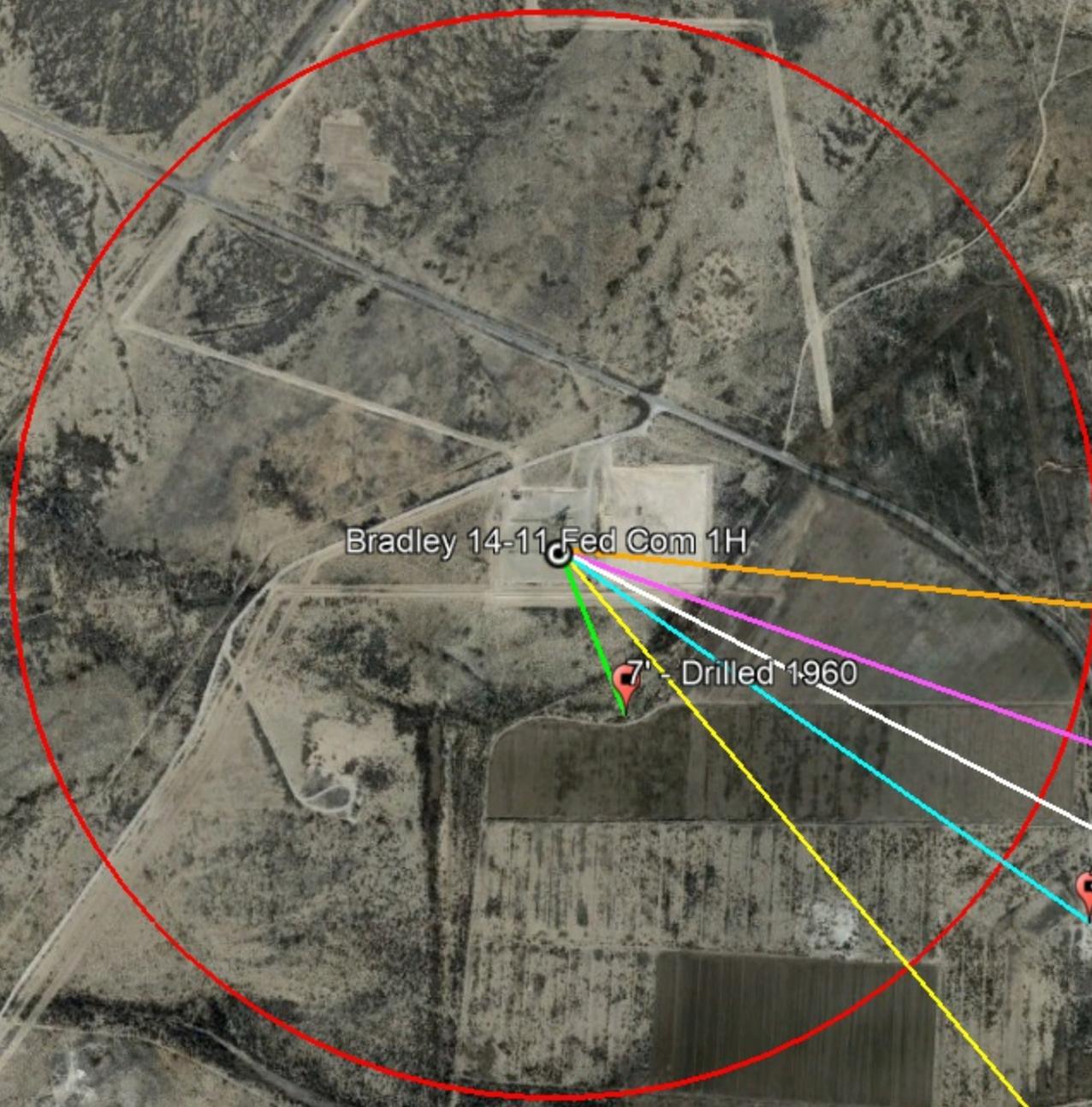


Nearest water well

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)					(NAD83 UTM in meters)			
Well Tag	POD Number	(quarters are smallest to largest)	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	00928		1	1	23	24S	26E	568806	3563757*	

Driller License: 30	Driller Company: BARRON, EMMETT	
Driller Name: BARRON, EMMETT		
Drill Start Date: 05/09/1960	Drill Finish Date: 05/11/1960	Plug Date:
Log File Date: 06/07/1960	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 8.00	Depth Well: 91 feet	Depth Water: 7 feet

Water Bearing Stratifications:	Top	Bottom	Description
	5	7	Other/Unknown

*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 2:54 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
C	00517	1	3	2	23	24S	26E	569498	3563456*		

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 Rev 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

Water Bearing Stratifications:	Top	Bottom	Description
	35	40	Sandstone/Gravel/Conglomerate
	60	70	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	55	80

*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.



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	00829	1	4	23	24S	26E	569591	3562957*	

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

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

*UTM location was derived from PLSS - see Help

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5/15/23 3:14 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	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

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5/15/23 3:16 PM

POINT OF DIVERSION SUMMARY

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

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- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 321223104150801

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

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

Table of data
Tab-separated data
Graph of data
Reselect period

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



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Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 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	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
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

5/15/23, 4:19 PM

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

Title: Groundwater for New Mexico: Water Levels

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



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

Page Last Modified: 2023-05-15 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
C 00928	C	ED		1	1	23	24S	26E		568806	3563757*	262	91	7	84
C 00369	C	CUB	ED	2	1	23	24S	26E		569207	3563757*	555			
C 04365 POD1	C	ED		4	2	4	14	24S	26E	569455	3564422	858			
C 00517	C	ED		1	3	2	23	24S	26E	569498	3563456*	959	80	31	49
C 00396	C	CUB	ED	2	2	23	24S	26E		570003	3563758*	1317	2032		
C 00829	C	ED		1	4	23	24S	26E		569591	3562957*	1366	50	19	31
C 03675	C	ED		2	2	2	23	24S	26E	570134	3563860	1433	59	38	21
C 01085	C	ED		4	2	23	24S	26E		569990	3563356*	1435	127	60	67
C 03414 POD1	C	ED		3	1	2	14	24S	26E	569513	3565188	1435	80	60	20
C 03414 POD1	R	C	ED	3	1	2	14	24S	26E	569513	3565188	1435	80	60	20
C 03414 POD2	C	ED		3	1	2	14	24S	26E	569509	3565257	1490	100	32	68
C 03110	C	ED		4	1	4	23	24S	26E	569690	3562856*	1507	35	12	23
C 00755	C	ED		4	1	15	24S	26E		567564	3564984*	1508	270		
C 00883	C	ED		3	2	4	23	24S	26E	569887	3562855*	1643	60	14	46
C 01616	C	ED		2	4	23	24S	26E		569988	3562956*	1652	84	84	0
C 01869	R	C	ED	2	3	4	23	24S	26E	569753	3562679	1684	110	30	80
C 01869 POD2	C	ED		2	3	4	23	24S	26E	569753	3562679	1684	111	50	61
C 03526 POD1	C	ED		1	4	4	23	24S	26E	569788	3562666	1716	200		
C 00692	C	ED		3	3	1	24	24S	26E	570281	3563253*	1741	50	42	8
C 00100 A	CUB	ED		1	1	3	24	24S	26E	570284	3563053	1838	51	26	25
C 00949	C	ED		1	1	3	24	24S	26E	570284	3563053*	1838	62	35	27
C 00262	R	C	ED	4	3	1	24	24S	26E	570481	3563253*	1924	50		
C 00690	C	ED		1	3	3	24	24S	26E	570288	3562653*	2076	30	10	20
C 02043	C	ED		2	1	24	24S	26E		570805	3563758*	2111	42	28	14
C 00262 POD2	C	ED		4	3	1	24	24S	26E	570234	3562337	2256	45	18	27
C 00792	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	4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 00293	C	ED	3	2	3	10	24S	26E	567445	3566100*		2450	250			
C 03777 POD1	C	ED	3	1	2	24	24S	26E	571120	3563571		2450	55	28	27	
C 03192	C	ED	1	2	1	13	24S	26E	570697	3565474*		2475	200			
C 02174	C	ED		2	10	24S	26E	568143	3566804*		2860	263	233	30		
C 04360 POD1	C	ED	3	3	3	18	24S	27E	571910	3564085		3203	72	40	32	
C 03560 POD1	C	ED	2	3	3	18	24S	27E	572009	3564150		3304	68	28	40	
C 00929	C	ED		3	3	18	24S	27E	572013	3564159*		3309	54	33	21	
C 00819	C	ED		4	4	26	24S	26E	570022	3560935*		3335	62	42	20	
C 04586 POD1	C	ED	4	1	1	35	24S	26E	568993	3560476		3535	150			
C 01169	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

UTMNAD83 Radius Search (in meters):

Easting (X): 568707.67

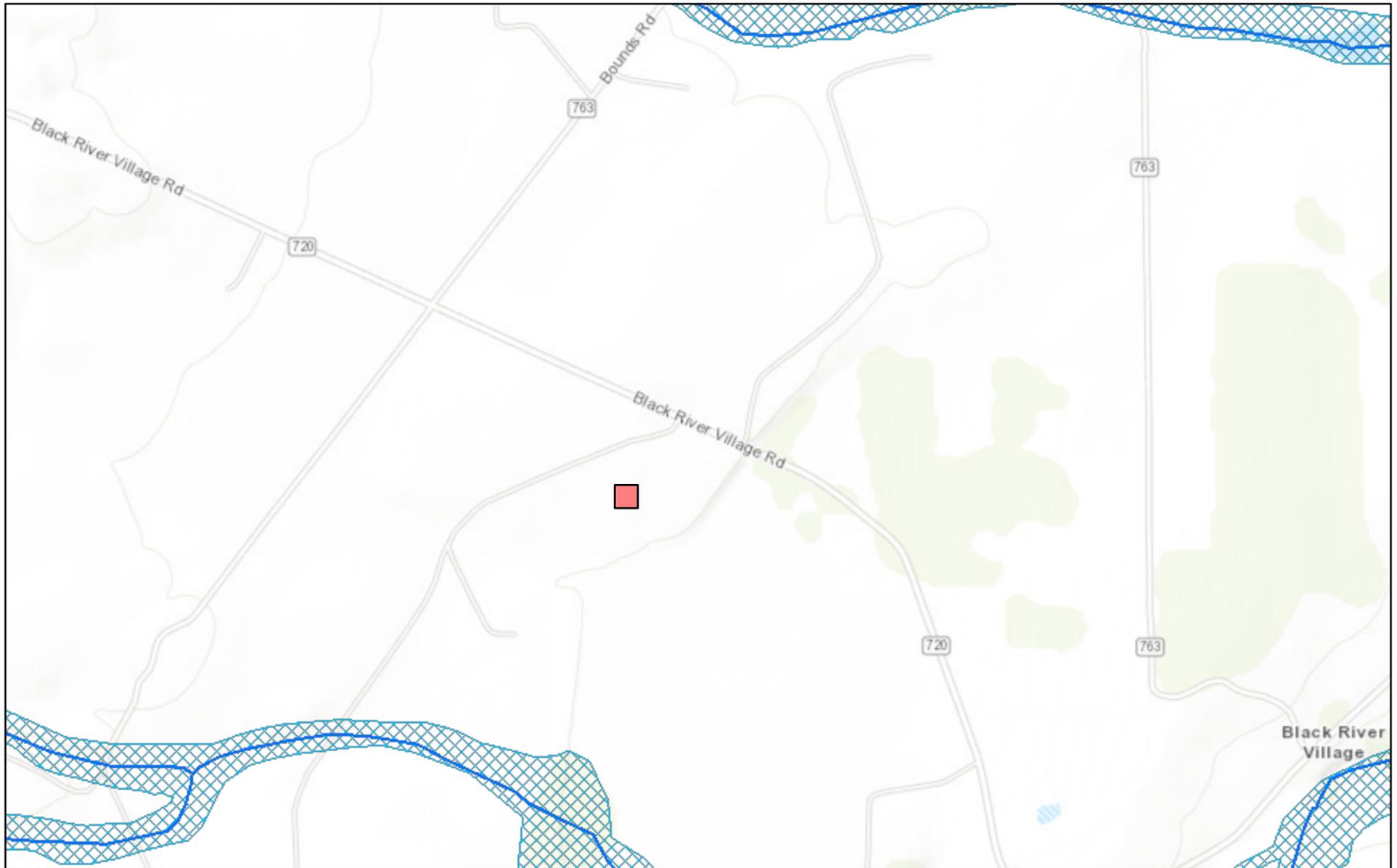
Northing (Y): 3564000.11

Radius: 4000

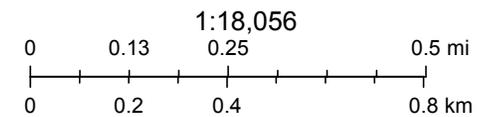
*UTM location was derived from PLSS - see Help

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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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/10/2023	Sampling Date:	05/09/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NM		

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

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	05/12/2023	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: 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

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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	Sampling Date:	05/09/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NM		

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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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	Sampling Date:	05/09/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NM		

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, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	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



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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	Sampling Date:	05/09/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NM		

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, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	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	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NM		

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, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	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	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NM		

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, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	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	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NM		

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, SM4500Cl-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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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	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NM		

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, SM4500Cl-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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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	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NM		

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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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	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NM		

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, 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 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NM		

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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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	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NM		

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	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NM		

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, 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 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: 423333

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

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

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters		ANALYSIS REQUEST	Preservative Codes	Sample Comments
							BTEX 8021B	TPH 8015M (GRO + DRO + MRO)			
T-4 (0-1')	5/10/2023		X		G	1	X	X			
T-4 (1'-1.5')	5/10/2023		X		G	1	X	X			
T-4 (1.5'-2')	5/10/2023		X		G	1	X	X			

Comments:

Relinquished by: (Signature)

[Signature]

Date/Time

5-10-23 1308

Received by: (Signature)

[Signature]

Date/Time



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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/10/2023	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NM		

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

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	05/12/2023	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	<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

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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	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NM		

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

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) 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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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	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NM		

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, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	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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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	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NM		

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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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	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NM		

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

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) 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	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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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	Sampling Date:	05/10/2023
Reported:	05/15/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO, NM		

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, 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 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
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/25/2023	Sampling Date:	05/25/2023
Reported:	05/26/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO, NM		

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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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:	05/25/2023	Sampling Date:	05/25/2023
Reported:	05/26/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO, NM		

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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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: 05/25/2023
 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)

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) 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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* = 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:	05/25/2023	Sampling Date:	05/25/2023
Reported:	05/26/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO, NM		

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, SM4500Cl-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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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:	05/25/2023	Sampling Date:	05/25/2023
Reported:	05/26/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO, NM		

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

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	05/25/2023	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) 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	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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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:	05/25/2023	Sampling Date:	05/25/2023
Reported:	05/26/2023	Sampling Type:	Soil
Project Name:	BRADLEY 14-11 FED COM 1H	Sampling Condition:	Cool & Intact
Project Number:	2019	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX - EDDY CO, NM		

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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Celey D. Keene, Lab Director/Quality Manager



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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
Samples reported on an as received basis (wet) unless otherwise noted on report

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

CONDITIONS

Action 232862

CONDITIONS

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

CONDITIONS

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