



SITE INFORMATION

Closure Report
Crawford 27-26 Fee
Incident ID: nAPP2120918798
Eddy County, New Mexico
Unit D Sec 27 T24S R26E
32.192258°, -104.2862066°

Point of Release:

½” hole developed in a 10” carbon steel line between inlet scrubbers and water tanks

Release Date: 07/27/2021

Volume Released: 17 Barrels of Produced Water

Volume Recovered: 15 Barrels of Produced Water

CARMONA RESOURCES



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

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

TABLE OF CONTENTS

1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 SITE ASSESSMENT ACTIVITIES

5.0 REMEDIATION ACTIVITIES

6.0 CONCLUSIONS

FIGURES

FIGURE 1 OVERVIEW FIGURE 2 TOPOGRAPHIC

FIGURE 3 SAMPLE LOCATION FIGURE 4 EXCAVATION

APPENDICES

APPENDIX A TABLES

APPENDIX B PHOTOS

APPENDIX C INITIAL AND FINAL C-141/NMOC D CORRESPONDENCE

APPENDIX D SITE CHARACTERIZATION AND GROUNDWATER

APPENDIX E LABORATORY REPORTS

June 20, 2023

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

Re: Closure Report
Crawford 27-26 Fee
Incident ID: nAPP2120918798
Cimarex Energy Co.
Site Location: Unit D, S27, T24S, R26E
(Lat 32.192258°, Long -104.2862066°)
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 Crawford 27-26 Fee. The site is located at 32.192258°, -104.2862066° within Unit D, S27, 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 July 27, 2021, caused by a ½” hole in the 10” carbon steel line between the inlet scrubbers and water tanks. It resulted in approximately seventeen (17) barrels of produced water, and fifteen (15) barrels of produced water were recovered. The impacted area is located on the pad. Refer to Figure 3 for a spill overview. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest identified well is approximately 0.71 miles Southeast of the site in S27, T24S, R26E and was drilled in 1957. The well has a reported depth to groundwater of 30' 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 8, 2023, and May 9, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, eleven (11) test trenches and ten (10) horizontal sample points were advanced to depths ranging from the surface to 5.0' 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 areas of T-2, T-4, T-6, T-11 & H-3 were excavated to a depth of 2.0' bgs. The area of T-3 was excavated to a depth of 3.0' bgs. The area of T-5 was excavated to a depth of 4.5' bgs. A total of twenty-four (24) confirmation floor samples (CS-1 through CS-24) and twenty-two (22) sidewall samples (SW-1 through SW-22) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA Method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 580 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

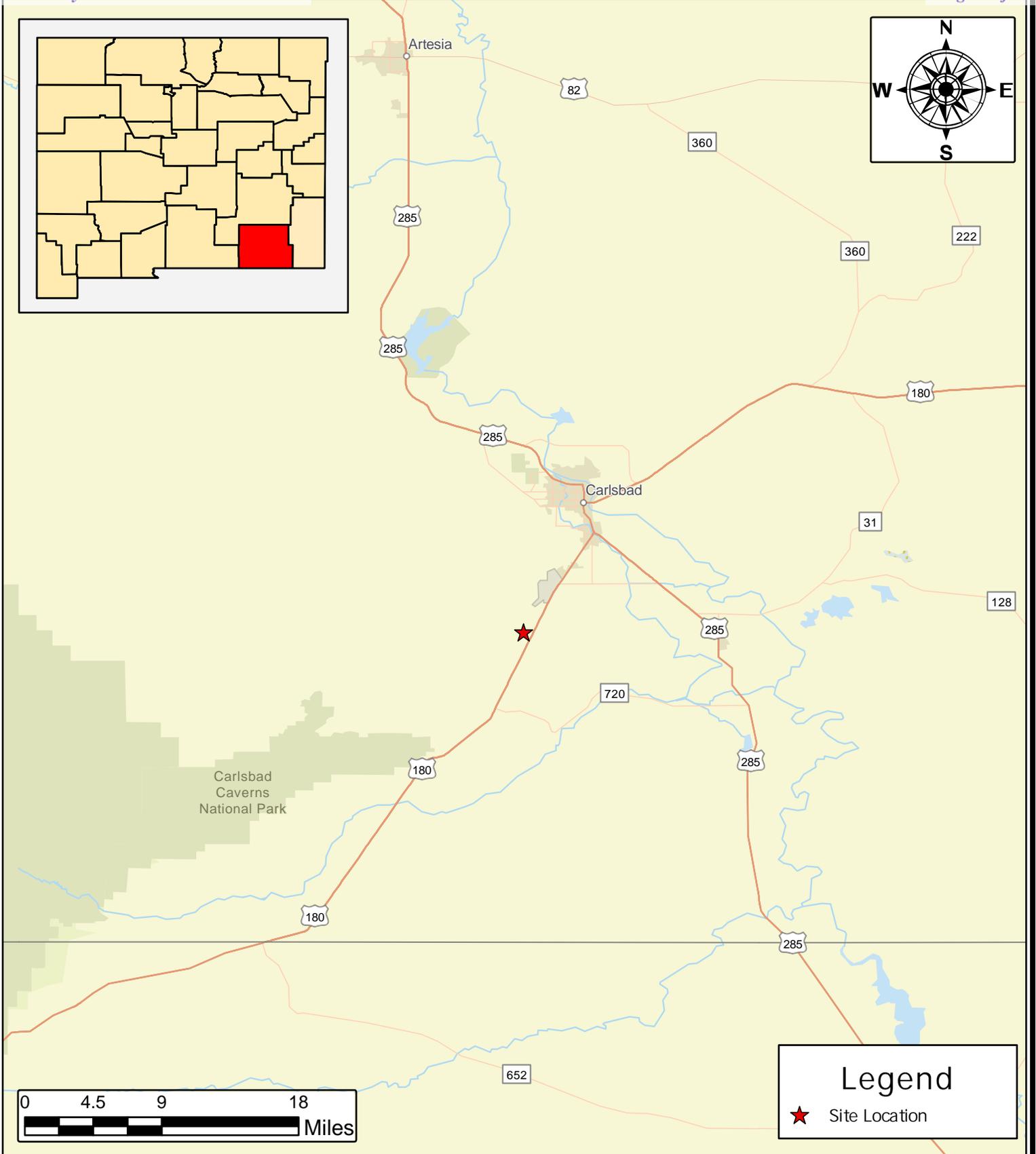
Ashton Thielke
Sr. Project Manager

Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES





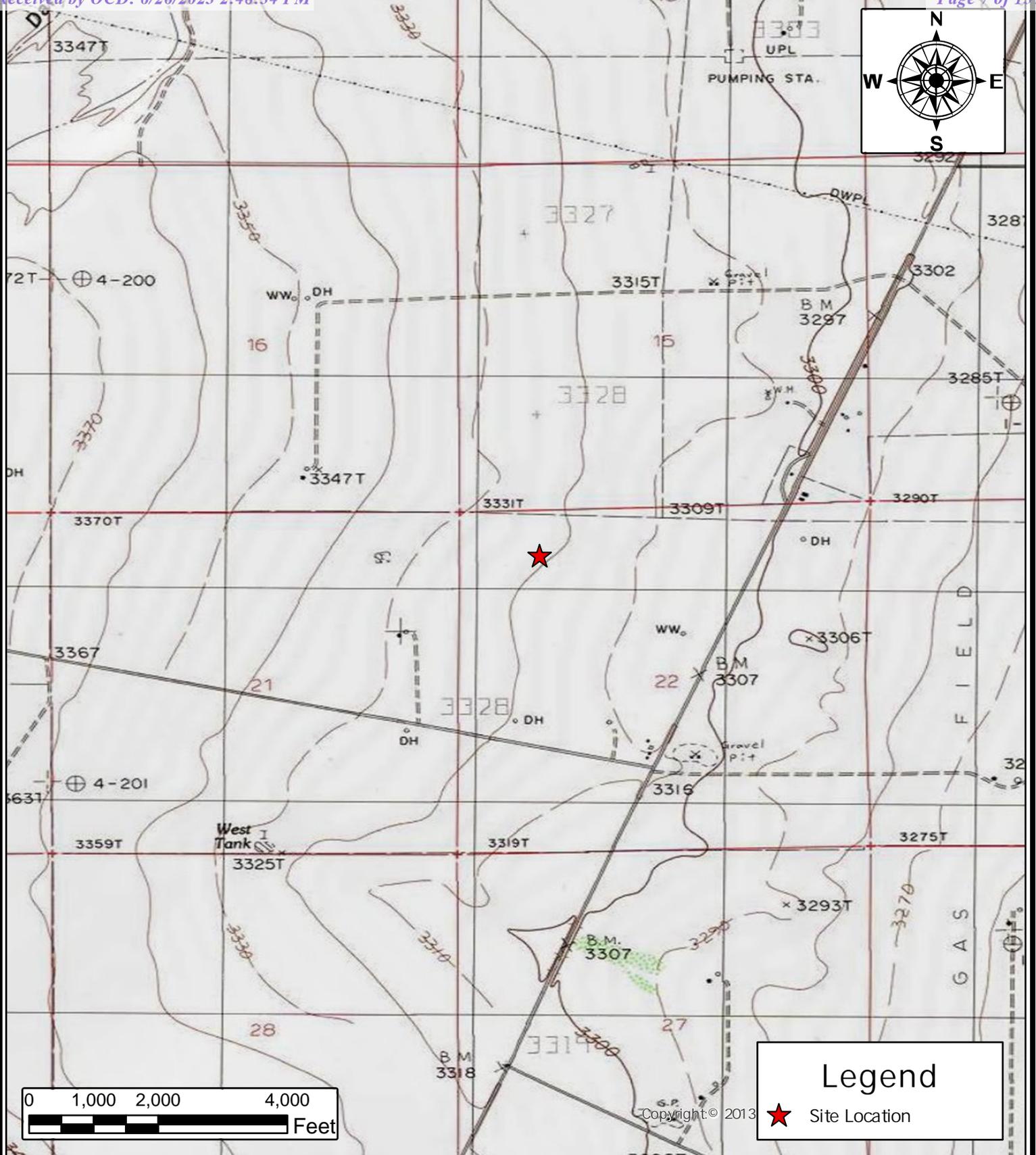
OVERVIEW MAP
CIMAREX ENERGY CO.
 CRAWFORD 27-26 FEE
 EDDY COUNTY, NEW MEXICO
 32.192258, -104.2862066

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: 6/12/2023



TOPOGRAPHIC MAP
CIMAREX ENERGY CO.
 CRAWFORD 27-26 FEE
 EDDY COUNTY, NEW MEXICO
 32.192258, -104.2862066

SCALE: As Shown Date: 6/12/2023

CARMONA RESOURCES 

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

NOTES:

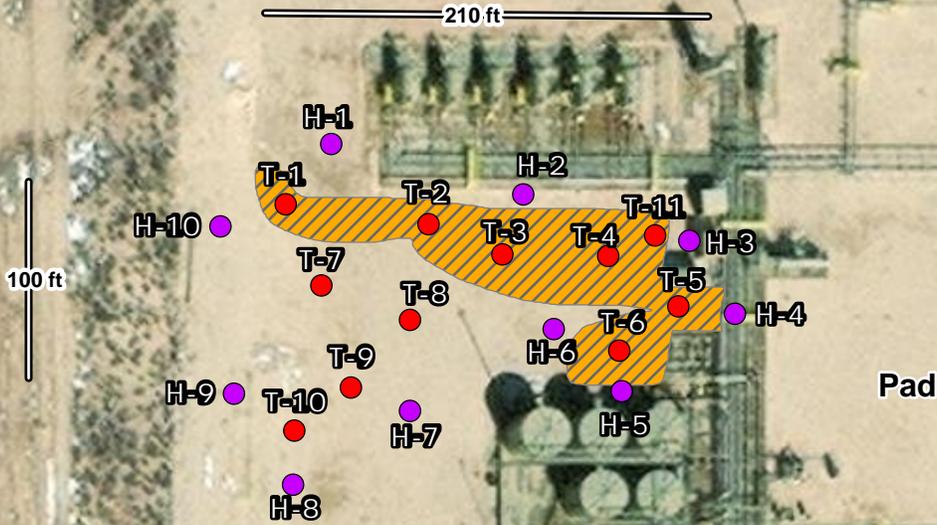
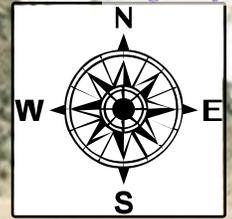
1. Base Image: ESRI Maps & Data 2023
2. Map Projection: WGS84

DRAWING NUMBER:
FIGURE 2

SHEET NUMBER:
 1 of 1

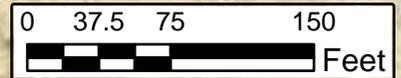
Pasture

Lease Road



Legend

- Horizontals
- Trench Sample
- Area of Concern
07.27.21



SAMPLE LOCATION MAP
CIMAREX ENERGY CO.
 CRAWFORD 27-26 FEE (07.27.2021)
 EDDY COUNTY, NEW MEXICO
 32.192258, -104.2862066

SCALE: As Shown

Date: 6/20/2023



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

NOTES:

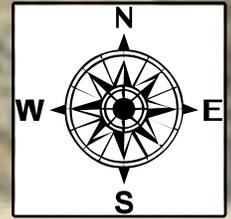
1. Base Image: ESRI Maps & Data 2023
2. Map Projection: WGS84

DRAWING NUMBER:

FIGURE 3

SHEET NUMBER:

1 of 1



Legend

- Confirmation Sample
- 2.0' Excavation
- 3.0' Excavation
- 4.5' Excavation



EXCAVATION DEPTH MAP
CIMAREX ENERGY CO.
 CRAWFORD 27-26 FEE
 EDDY COUNTY, NEW MEXICO
 32.192258, -104.2862066


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

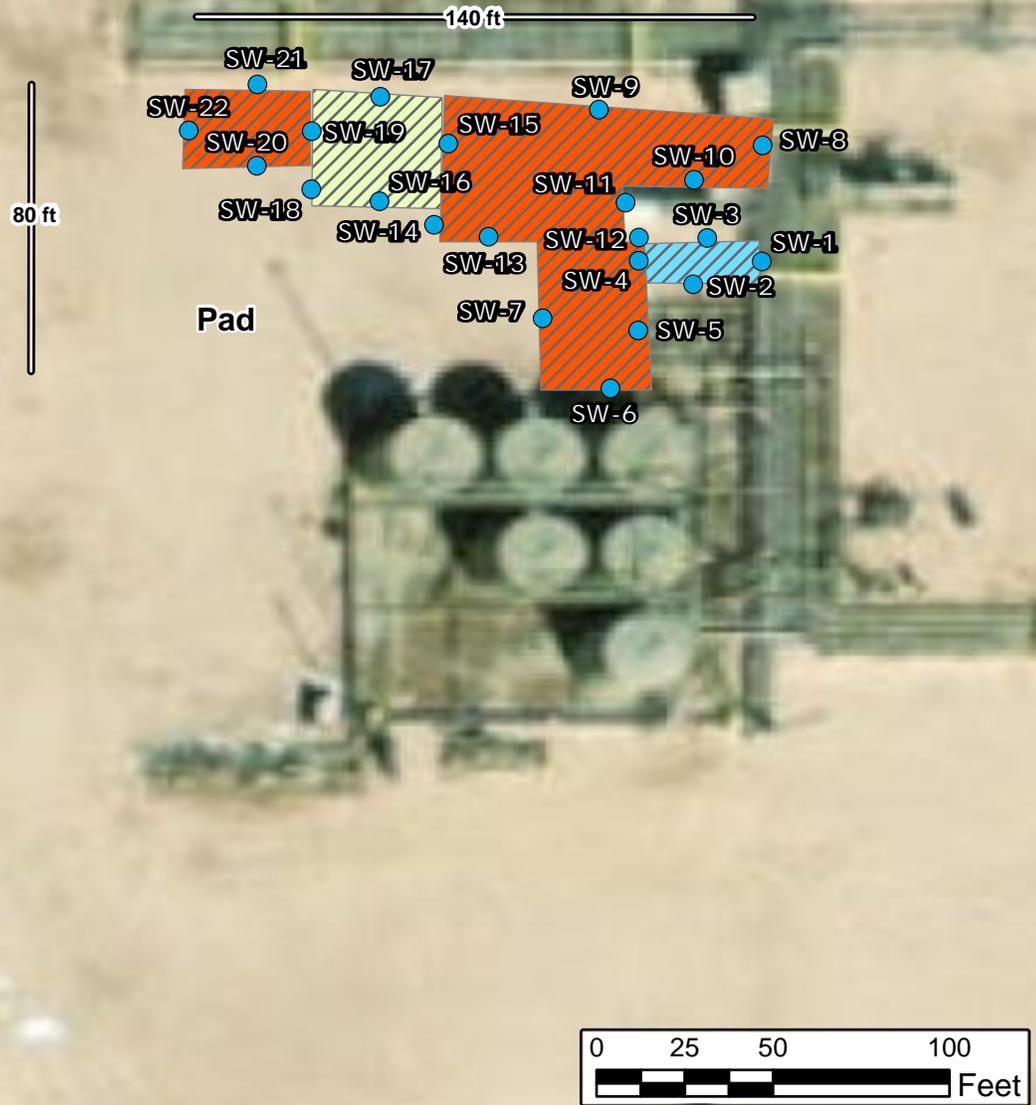
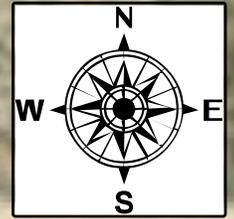
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1. Base Image: ESRI Maps & Data 2023
2. Map Projection: WGS84

DRAWING NUMBER:
FIGURE 4A

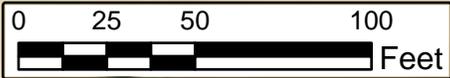
SHEET NUMBER:
 1 of 2

SCALE: As Shown Date: 6/14/2023



Legend

- Sidewall Sample
- 2.0' Excavation
- 3.0' Excavation
- 4.5' Excavation



EXCAVATION DEPTH MAP
CIMAREX ENERGY CO.
 CRAWFORD 27-26 FEE
 EDDY COUNTY, NEW MEXICO
 32.192258, -104.2862066

SCALE: As Shown Date: 6/14/2023

CARMONA RESOURCES

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

NOTES:

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

DRAWING NUMBER:
FIGURE 4B

SHEET NUMBER:
 2 of 2

APPENDIX A

CARMONA RESOURCES



Table 1
Cimarex
Crawford 27-26 Fee
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
T-1	5/8/2023	0-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
	"	1.0-1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
	"	1.5-2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
T-2	5/8/2023	0-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	720
	"	1.0-1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,160
	"	1.5-2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
T-3	5/8/2023	0-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,560
	"	1.0-1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,800
	"	1.5-2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,170
	"	2.0-3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	384
	"	3.0-4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
T-4	5/9/2023	0-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,400
	"	1.0-1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,580
	"	1.5-2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
T-5	5/9/2023	0-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	1.0-1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,010
	"	1.5-2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,920
	"	2.0-3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,280
	"	3.0-4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	544
T-6	5/8/2023	0-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,720
	"	1.0-1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
	"	1.5-2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
T-7	5/8/2023	0-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	384
	"	1.0-1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	448
	"	1.5-2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
	"	2.0-3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	3.0-4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
T-8	5/8/2023	0-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	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	48.0
T-9	5/8/2023	0-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.0-1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	1.5-2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
	"	2.0-3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	3.0-4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
T-10	5/8/2023	0-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	1.0-1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	1.5-2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
	"	2.0-3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	3.0-4.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
T-11	5/9/2023	0-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	736
	"	1.0-1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,560
	"	1.5-2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	432
Regulatory Criteria ^A						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) Test Trench
 Removed

**Table 1
Cimarex
Crawford 27-26 Fee
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						
H-1	5/8/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
H-2	5/8/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
H-3	5/8/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,920
H-4	5/8/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
H-5	5/8/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
H-6	5/8/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
H-7	5/8/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
H-8	5/8/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-9	5/8/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
H-10	5/8/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
<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

(H) Horizontal Sample

 Removed

Table 2
Cimarex
Crawford 27-26 Fee
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	6/8/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
CS-2	6/8/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-3	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
CS-4	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-5	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-6	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-7	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-8	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-9	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-10	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-11	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-12	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-13	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-14	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
CS-15	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-16	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-17	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-18	6/8/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-19	6/8/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
CS-20	6/8/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
CS-21	6/8/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-22	6/8/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-23	6/8/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-24	6/8/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
<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

Table 2
Cimarex
Crawford 27-26 Fee
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
SW-1	6/8/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-2	6/8/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
SW-3	6/8/2023	4.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-4	6/8/2023	2.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-5	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-6	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-7	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-8	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-9	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-10	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-11	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-12	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-13	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128.0
SW-14	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240.0
SW-15	6/8/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
SW-16	6/8/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
SW-17	6/8/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-18	6/8/2023	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-19	6/8/2023	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
SW-20	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-21	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
SW-22	6/8/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
<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
 (SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Cimarex Energy Co.

Photograph No. 1

Facility: Crawford 27-26 Fee

County: Eddy County, New Mexico

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



Photograph No. 2

Facility: Crawford 27-26 Fee

County: Eddy County, New Mexico

Description:
View South, area of CS-3 through CS-8.

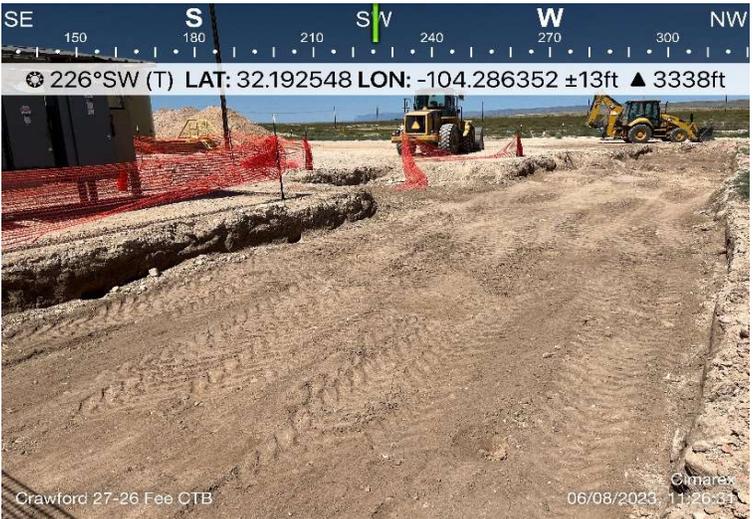


Photograph No. 3

Facility: Crawford 27-26 Fee

County: Eddy County, New Mexico

Description:
View Southwest, area of CS-9 through CS-17.



PHOTOGRAPHIC LOG

Cimarex Energy Co.

Photograph No. 4

Facility: Crawford 27-26 Fee

County: Eddy County, New Mexico

Description:
View Northwest, area of CS-13 through CS-17.



Photograph No. 5

Facility: Crawford 27-26 Fee

County: Eddy County, New Mexico

Description:
View Northwest, area of CS-9 through CS-24.

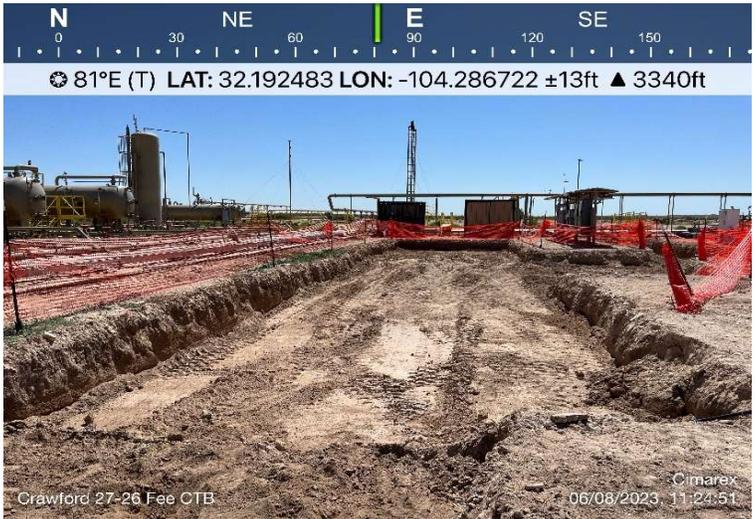


Photograph No. 6

Facility: Crawford 27-26 Fee

County: Eddy County, New Mexico

Description:
View East, area of CS-9 through CS-21.



PHOTOGRAPHIC LOG

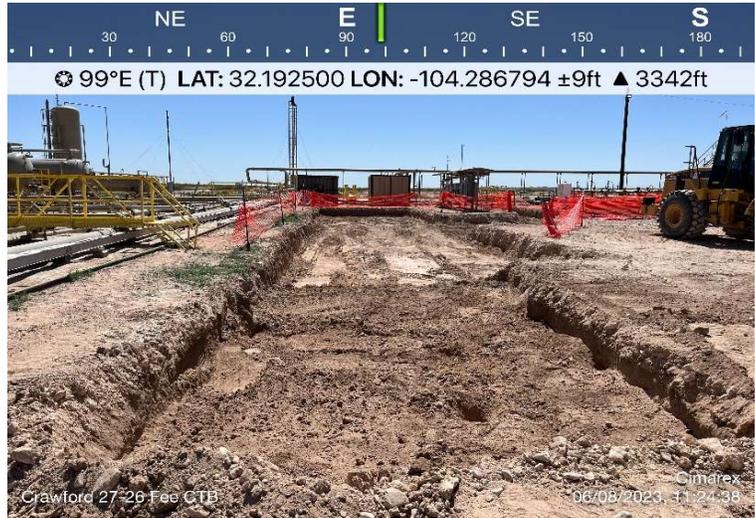
Cimarex Energy Co.

Photograph No. 7

Facility: Crawford 27-26 Fee

County: Eddy County, New Mexico

Description:
View East, area of CS-9 through CS-24.



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	nAPP2120918798
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) nAPP2120918798
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

Location of Release Source

Latitude 32.192258 _____ Longitude -104.2862066 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Crawford 27-26 Fee	Site Type: Battery
Date Release Discovered: 7/27/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
D	27	24S	26E	Eddy

Surface Owner: State Federal Tribal Private (Name: Bounds Family Trust _____)

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) 17	Volume Recovered (bbls) 15
	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

Corrosion caused a 1/2" hole to develop in a 10" carbon steel line between the inlet scrubbers and the water tanks. Total released 17 barrels produced water outside of containment, 15 barrels were recovered. The spill remained on pad. Impacted soils will be remediated.

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	nAPP2120918798
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, Cristina Eads and Robert Hamlet 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 <u>not</u> 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: ESH Specialist _____ Signature:  _____ Date: 7/28/2021 _____ email: llug@cimarex.com _____ Telephone: (432) 208-3035 _____
<u>OCD Only</u> Received by: _____ Date: _____

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: *Shelly Wells* 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: *lac. dj* 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: *Ashley Maxwell* Date: 11/28/2023
 Printed Name: Ashley Maxwell Title: Environmental Specialist

Ashton Thielke

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Tuesday, May 23, 2023 5:24 PM
To: Ashton Thielke
Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] nAPP2109256031 & nAPP2120918798 - Crawford 27-26 Fee 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,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented 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 3:12 PM
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] nAPP2109256031 & nAPP2120918798 - Crawford 27-26 Fee 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 Crawford 27-26 Fee 1H. Sampling is scheduled to begin as early as 12:00pm (MST) Thursday, June 1st , weather and soil conditions permitting. Carmona Resources will be on site to collect the confirmation samples.

Incident ID: nAPP2109256031 & nAPP2120918798
Coordinates: 32.192258, -104.2862066

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

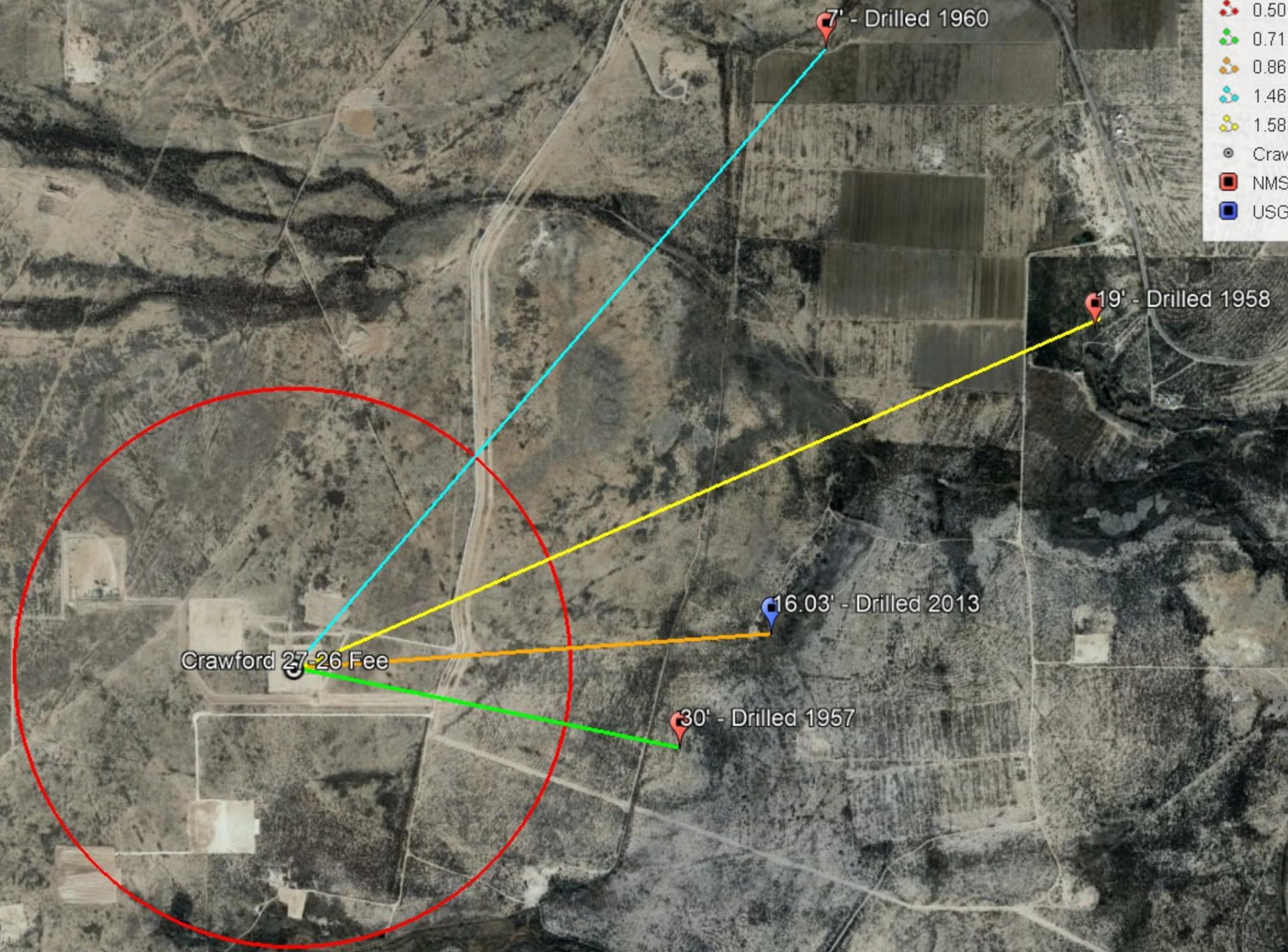


Nearest water well

Cimarex Energy Co.

Legend

- 0.50 Mile Radius
- 0.71 Miles
- 0.86 Miles
- 1.46 Miles
- 1.58 Miles
- Crawford 27-26 Fee
- NMSEO Water Well
- USGS Water Well



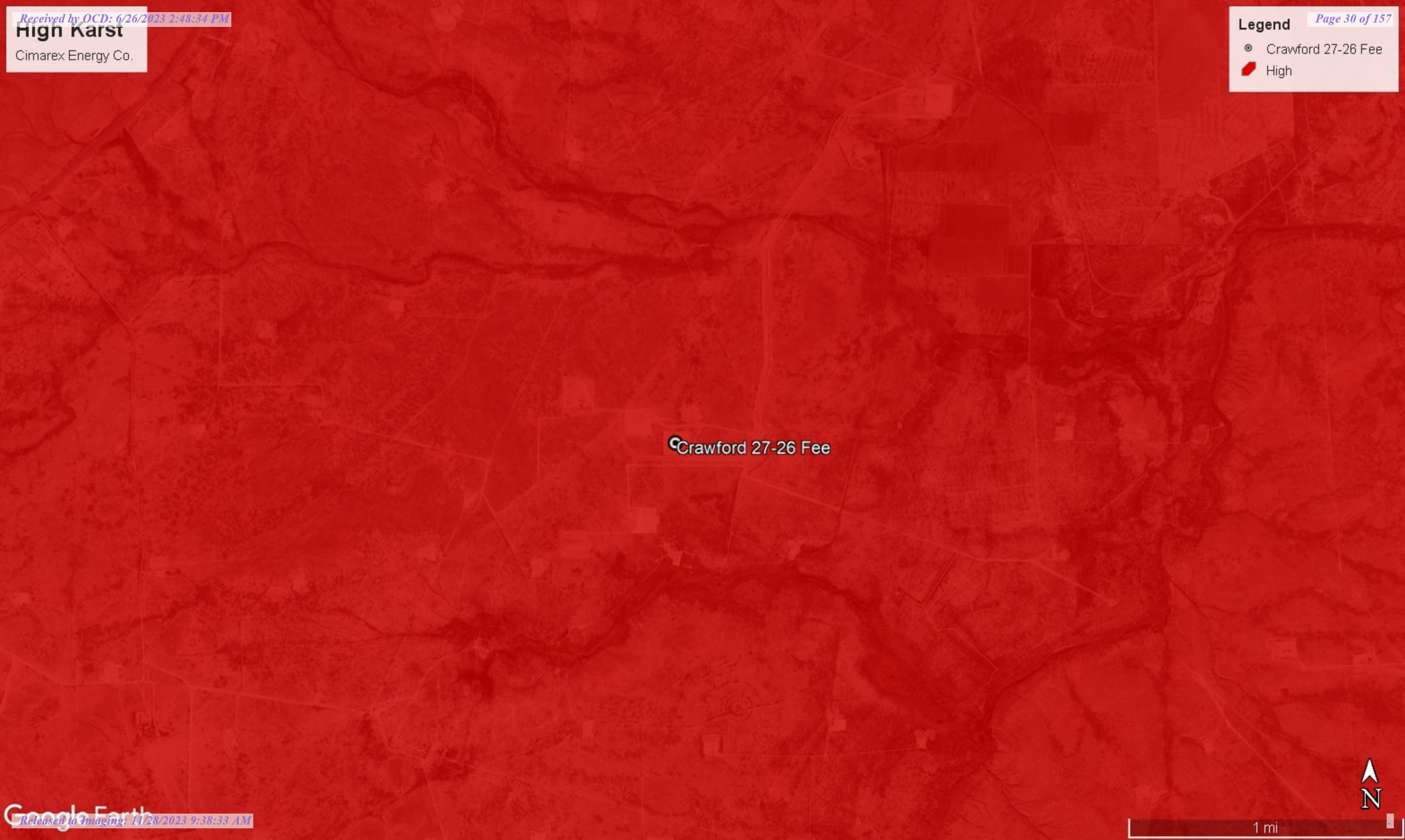
4000 ft

High Karst

Cimarex Energy Co.

Legend

-  Crawford 27-26 Fee
-  High



Crawford 27-26 Fee





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 00792	C	ED		4	2	27	24S	26E		568397	3561747*	1137	70	30	40
C 04586 POD1	C	ED		4	1	1	35	24S	26E	568993	3560476	2271	150		
C 00928	C	ED		1	1	23	24S	26E		568806	3563757*	2350	91	7	84
C 00829	C	ED		1	4	23	24S	26E		569591	3562957*	2512	50	19	31
C 03110	C	ED		4	1	4	23	24S	26E	569690	3562856*	2567	35	12	23
C 01869	R	C	ED	2	3	4	23	24S	26E	569753	3562679	2572	110	30	80
C 01869 POD2	C	ED		2	3	4	23	24S	26E	569753	3562679	2572	111	50	61
C 03526 POD1	C	ED		1	4	4	23	24S	26E	569788	3562666	2601	200		
C 00369	C	CUB	ED	2	1	23	24S	26E		569207	3563757*	2628			
C 00517	C	ED		1	3	2	23	24S	26E	569498	3563456*	2669	80	31	49
C 00883	C	ED		3	2	4	23	24S	26E	569887	3562855*	2752	60	14	46
C 03200 POD1	C	ED		2	3	4	34	24S	26E	568206	3559349	2777	80	52	28
C 01616	C	ED		2	4	23	24S	26E		569988	3562956*	2881	84	84	0
C 00819	C	ED		4	4	26	24S	26E		570022	3560935*	2929	62	42	20
C 00262 POD2	C	ED		4	3	1	24	24S	26E	570234	3562337	2975	45	18	27
C 00755	C	ED		4	1	15	24S	26E		567564	3564984*	3028	270		
C 01085	C	ED		4	2	23	24S	26E		569990	3563356*	3043	127	60	67
C 00690	C	ED		1	3	3	24	24S	26E	570288	3562653*	3083	30	10	20
C 01202	C	ED			1	29	24S	26E		564138	3561903*	3143	75	19	56
C 00100 A		CUB	ED	1	1	3	24	24S	26E	570284	3563053	3192	51	26	25
C 00949	C	ED		1	1	3	24	24S	26E	570284	3563053*	3192	62	35	27
C 00396	C	CUB	ED	2	2	23	24S	26E		570003	3563758*	3257	2032		
C 00692	C	ED		3	3	1	24	24S	26E	570281	3563253*	3263	50	42	8
C 04365 POD1	C	ED		4	2	4	14	24S	26E	569455	3564422	3277			
C 04270 POD2		CUB	ED	1	4	1	20	26S	26E	564309	3563438	3315	59		
C 01386	C	ED		3	1	29	24S	26E		563937	3561702*	3354	84	72	12

*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	
C 03675	C	ED	2	2	2	23	24S	26E	570134	3563860		3422	59	38	21	
C 00262	R	C	ED	4	3	1	24	24S	26E	570481	3563253*		3447	50		
C 02700	C	ED	1	1	3	29	24S	26E	563844	3561400*		3483	180			
C 01454	C	ED		1	3	20	24S	26E	563917	3562912*		3493	87	70	17	
C 01089	C	ED	3	4	1	03	25S	26E	567505	3558398*		3578	96	45	51	
C 03414 POD1	C	ED	3	1	2	14	24S	26E	569513	3565188		3917	80	60	20	
C 03414 POD1	R	C	ED	3	1	2	14	24S	26E	569513	3565188		3917	80	60	20
C 02043	C	ED		2	1	24	24S	26E	570805	3563758*		3952	42	28	14	
C 03414 POD2	C	ED	3	1	2	14	24S	26E	569509	3565257		3971	100	32	68	

Average Depth to Water: **37 feet**

Minimum Depth: **7 feet**

Maximum Depth: **84 feet**

Record Count: 35

UTMNAD83 Radius Search (in meters):

Easting (X): 567281

Northing (Y): 3561969

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.



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	00792	4 2 27	24S	26E	568397	3561747*

Driller License: 62	Driller Company: BEATTY, J.R.	
Driller Name: WILLARD BEATY		
Drill Start Date: 07/24/1957	Drill Finish Date: 07/24/1957	Plug Date: 07/26/1961
Log File Date: 08/12/1957	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 8.00	Depth Well: 70 feet	Depth Water: 30 feet

Water Bearing Stratifications:	Top	Bottom	Description
	60	65	Sandstone/Gravel/Conglomerate

*UTM location was derived from PLSS - see Help

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6/13/23 1:54 PM

POINT OF DIVERSION SUMMARY



USGS Home
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National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 321136104160701

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

USGS 321136104160701 24S.26E.26.113311

Eddy County, New Mexico
 Latitude 32°11'35.3", Longitude 104°16'17.7" NAD83
 Land-surface elevation 3,276.90 feet above NGVD29
 The depth of the well is 60 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
1978-01-05			D 62610		3257.52	NGVD29	1		Z	
1978-01-05			D 62611		3259.19	NAVD88	1		Z	
1978-01-05			D 72019	19.38			1		Z	
1983-01-24			D 62610		3244.51	NGVD29	1		Z	
1983-01-24			D 62611		3246.18	NAVD88	1		Z	
1983-01-24			D 72019	32.39			1		Z	
1988-02-10			D 62610		3255.46	NGVD29	1		Z	
1988-02-10			D 62611		3257.13	NAVD88	1		Z	
1988-02-10			D 72019	21.44			1		Z	
1992-11-13			D 62610		3250.29	NGVD29	1		S	
1992-11-13			D 62611		3251.96	NAVD88	1		S	
1992-11-13			D 72019	26.61			1		S	
1998-01-06			D 62610		3247.88	NGVD29	1		S	
1998-01-06			D 62611		3249.55	NAVD88	1		S	

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
1998-01-06			D	72019	29.02				S	
2003-02-05			D	62610		3263.10	NGVD29	1	S	USGS
2003-02-05			D	62611		3264.77	NAVD88	1	S	USGS
2003-02-05			D	72019	13.80			1	S	USGS
2013-01-08	23:30 UTC		m	62610		3260.87	NGVD29	1	S	USGS
2013-01-08	23:30 UTC		m	62611		3262.54	NAVD88	1	S	USGS
2013-01-08	23:30 UTC		m	72019	16.03			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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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?site_no=321136104160701&agency_cd=USGS&format=html



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

Page Last Modified: 2023-06-13 16:01:37 EDT

0.29 0.24 nadww02



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	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

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6/13/23 1:56 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)				(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

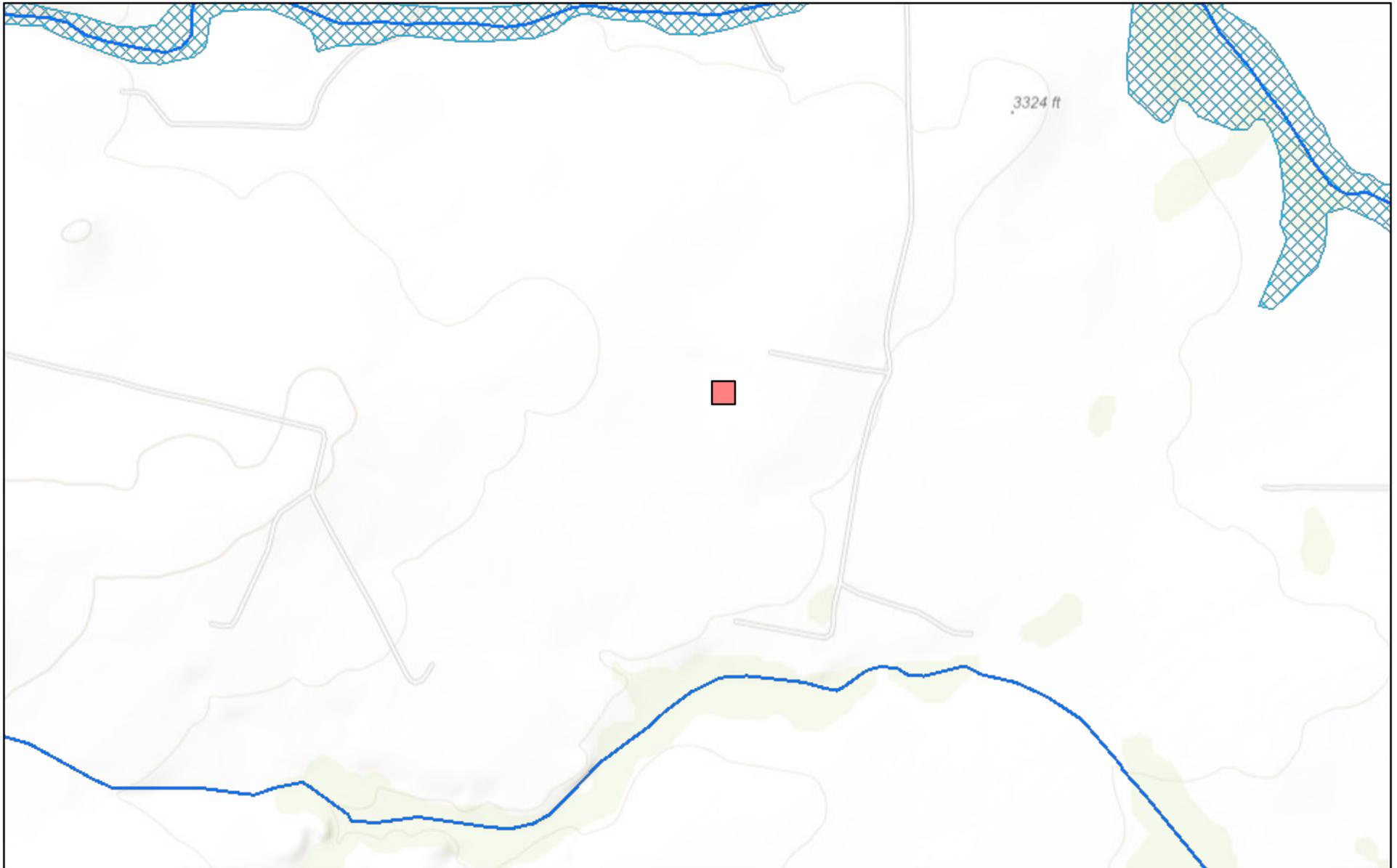
*UTM location was derived from PLSS - see Help

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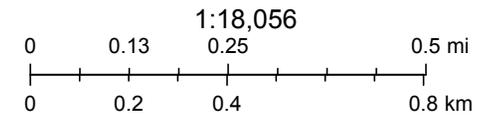
6/13/23 1:58 PM

POINT OF DIVERSION SUMMARY

New Mexico NFHL Data



June 13, 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 12, 2023

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

RE: CRAWFORD 27-26 FEE 1H

Enclosed are the results of analyses for samples received by the laboratory on 05/09/23 13:26.

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". The signature is written in a cursive style.

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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 1 (0-1') (H232302-01)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	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	320	16.0	05/10/2023	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	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 1 (1'-1.5') (H232302-02)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	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	176	16.0	05/10/2023	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	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 1 (1.5'-2') (H232302-03)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/10/2023	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	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 2 (0-1') (H232302-04)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	05/10/2023	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	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 2 (1'-1.5') (H232302-05)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	05/10/2023	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	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 2 (1.5'-2') (H232302-06)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	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	96.0	16.0	05/10/2023	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	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 49.1-148

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Analytical Results For:

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

Received: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 3 (0-1') (H232302-07)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	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	4560	16.0	05/10/2023	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	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Analytical Results For:

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

Received: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 3 (1'-1.5') (H232302-08)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	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	4800	16.0	05/10/2023	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	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 3 (1.5'-2') (H232302-09)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	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	1170	16.0	05/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 3 (2'-3') (H232302-10)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	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	384	16.0	05/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 88.4 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 3 (3'-4') (H232302-11)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	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	160	16.0	05/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

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

Sample ID: T - 4 (0-1') (H232302-12)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	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	5400	16.0	05/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 72.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

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

Sample ID: T - 4 (1'-1.5') (H232302-13)

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	05/10/2023	ND	1.93	96.5	2.00	0.428	
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	1580	16.0	05/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

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

Sample ID: T - 4 (1.5'-2') (H232302-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.93	96.5	2.00	0.428	
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	4.84	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

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

Sample ID: T - 5 (0-1') (H232302-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.93	96.5	2.00	0.428	
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	05/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	4.84	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

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

Sample ID: T - 5 (1'-1.5') (H232302-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.93	96.5	2.00	0.428	
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	1010	16.0	05/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	4.84	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

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

Sample ID: T - 5 (1.5'-2') (H232302-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.93	96.5	2.00	0.428	
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	05/10/2023	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	1920	16.0	05/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	4.84	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

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

Sample ID: T - 5 (2'-3') (H232302-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.93	96.5	2.00	0.428	
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	05/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	4.84	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

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

Sample ID: T - 5 (3'-4') (H232302-19)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	1.93	96.5	2.00	0.428		
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58		
Total BTEX	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	05/10/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	4.84		
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605		
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND						

Surrogate: 1-Chlorooctane 85.4 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

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

Sample ID: T - 5 (4'-5') (H232302-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.93	96.5	2.00	0.428	
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	4.84	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 6 (0-1') (H232302-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.93	96.5	2.00	0.428	
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	1720	16.0	05/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	4.84	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 6 (1'-1.5') (H232302-22)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.93	96.5	2.00	0.428	
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	05/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	4.84	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 6 (1.5'-2') (H232302-23)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	1.93	96.5	2.00	0.428		
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58		
Total BTEX	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/10/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	4.84		
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605		
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND						

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 7 (0-1') (H232302-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.93	96.5	2.00	0.428	
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	384	16.0	05/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	4.84	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 85.8 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 7 (1'-1.5') (H232302-25)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.93	96.5	2.00	0.428	
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	05/10/2023	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	448	16.0	05/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	4.84	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 7 (1.5'-2') (H232302-26)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	1.93	96.5	2.00	0.428		
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58		
Total BTEX	<0.300	0.300	05/10/2023	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	160	16.0	05/10/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	4.84		
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605		
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND						

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 7 (2'-3') (H232302-27)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.93	96.5	2.00	0.428	
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	4.84	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 85.7 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 7 (3'-4') (H232302-28)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.93	96.5	2.00	0.428	
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/10/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	4.84	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 8 (0-1') (H232302-29)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.93	96.5	2.00	0.428	
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	05/10/2023	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	48.0	16.0	05/10/2023	ND	400	100	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	05/10/2023	ND	175	87.6	200	4.84	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 8 (1'-1.5') (H232302-30)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.93	96.5	2.00	0.428	
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	05/10/2023	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	112	16.0	05/10/2023	ND	400	100	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	05/10/2023	ND	175	87.6	200	4.84	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 8 (1.5'-2') (H232302-31)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2023	ND	1.93	96.5	2.00	0.428	
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	05/10/2023	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	48.0	16.0	05/10/2023	ND	400	100	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	05/10/2023	ND	175	87.6	200	4.84	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 9 (0-1') (H232302-32)

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	05/10/2023	ND	1.93	96.5	2.00	0.428	
Toluene*	<0.050	0.050	05/10/2023	ND	1.96	98.0	2.00	0.833	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.11	106	2.00	1.16	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.30	105	6.00	1.58	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/10/2023	ND	400	100	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	05/10/2023	ND	175	87.6	200	4.84	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 9 (1'-1.5') (H232302-33)

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	05/10/2023	ND	1.96	98.1	2.00	2.42	
Toluene*	<0.050	0.050	05/10/2023	ND	2.00	99.9	2.00	0.369	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.10	105	2.00	0.651	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.25	104	6.00	0.900	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	05/10/2023	ND	400	100	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	05/10/2023	ND	175	87.6	200	4.84	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	212	106	200	0.605	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 9 (1.5'-2') (H232302-34)

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	05/10/2023	ND	1.96	98.1	2.00	2.42	
Toluene*	<0.050	0.050	05/10/2023	ND	2.00	99.9	2.00	0.369	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.10	105	2.00	0.651	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.25	104	6.00	0.900	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	05/10/2023	ND	400	100	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	05/10/2023	ND	161	80.4	200	2.41	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	157	78.6	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Analytical Results For:

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

Received: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 9 (2'-3') (H232302-35)

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	05/10/2023	ND	1.96	98.1	2.00	2.42	
Toluene*	<0.050	0.050	05/10/2023	ND	2.00	99.9	2.00	0.369	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.10	105	2.00	0.651	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.25	104	6.00	0.900	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	05/10/2023	ND	400	100	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	05/10/2023	ND	161	80.4	200	2.41	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	157	78.6	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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Analytical Results For:

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

Received: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 9 (3'-4') (H232302-36)

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	05/10/2023	ND	1.96	98.1	2.00	2.42	
Toluene*	<0.050	0.050	05/10/2023	ND	2.00	99.9	2.00	0.369	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.10	105	2.00	0.651	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.25	104	6.00	0.900	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	05/10/2023	ND	400	100	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	05/10/2023	ND	161	80.4	200	2.41	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	157	78.6	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Analytical Results For:

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

Received: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 10 (0-1') (H232302-37)

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	05/10/2023	ND	1.96	98.1	2.00	2.42	
Toluene*	<0.050	0.050	05/10/2023	ND	2.00	99.9	2.00	0.369	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.10	105	2.00	0.651	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.25	104	6.00	0.900	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	05/10/2023	ND	400	100	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	05/10/2023	ND	161	80.4	200	2.41	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	157	78.6	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 10 (1'-1.5') (H232302-38)

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	05/10/2023	ND	1.96	98.1	2.00	2.42	
Toluene*	<0.050	0.050	05/10/2023	ND	2.00	99.9	2.00	0.369	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.10	105	2.00	0.651	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.25	104	6.00	0.900	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	05/10/2023	ND	400	100	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	05/10/2023	ND	161	80.4	200	2.41	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	157	78.6	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 10 (1.5'-2') (H232302-39)

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	05/10/2023	ND	1.96	98.1	2.00	2.42	
Toluene*	<0.050	0.050	05/10/2023	ND	2.00	99.9	2.00	0.369	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.10	105	2.00	0.651	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.25	104	6.00	0.900	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	05/10/2023	ND	400	100	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	05/10/2023	ND	161	80.4	200	2.41	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	157	78.6	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 10 (2'-3') (H232302-40)

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	05/10/2023	ND	1.96	98.1	2.00	2.42	
Toluene*	<0.050	0.050	05/10/2023	ND	2.00	99.9	2.00	0.369	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.10	105	2.00	0.651	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.25	104	6.00	0.900	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	05/10/2023	ND	400	100	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	05/10/2023	ND	161	80.4	200	2.41	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	157	78.6	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T - 10 (3'-4') (H232302-41)

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	05/10/2023	ND	1.96	98.1	2.00	2.42	
Toluene*	<0.050	0.050	05/10/2023	ND	2.00	99.9	2.00	0.369	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.10	105	2.00	0.651	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.25	104	6.00	0.900	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	05/10/2023	ND	400	100	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	05/10/2023	ND	161	80.4	200	2.41	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	157	78.6	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 76.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

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

Sample ID: T - 11 (0-1') (H232302-42)

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	05/10/2023	ND	1.96	98.1	2.00	2.42	
Toluene*	<0.050	0.050	05/10/2023	ND	2.00	99.9	2.00	0.369	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.10	105	2.00	0.651	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.25	104	6.00	0.900	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	05/10/2023	ND	400	100	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	05/10/2023	ND	161	80.4	200	2.41	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	157	78.6	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

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

Sample ID: T - 11 (1'-1.5') (H232302-43)

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	05/10/2023	ND	1.96	98.1	2.00	2.42	
Toluene*	<0.050	0.050	05/10/2023	ND	2.00	99.9	2.00	0.369	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.10	105	2.00	0.651	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.25	104	6.00	0.900	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	4560	16.0	05/10/2023	ND	400	100	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	05/10/2023	ND	161	80.4	200	2.41	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	157	78.6	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

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

Sample ID: T - 11 (1.5'-2') (H232302-44)

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	05/10/2023	ND	1.96	98.1	2.00	2.42	
Toluene*	<0.050	0.050	05/10/2023	ND	2.00	99.9	2.00	0.369	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.10	105	2.00	0.651	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.25	104	6.00	0.900	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	432	16.0	05/10/2023	ND	400	100	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	05/10/2023	ND	161	80.4	200	2.41	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	157	78.6	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: 1030302

Page 4 of 5

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 Midland, TX 79701	Address:	600 N Mainfield St, Suite 600 Midland, TX 79701
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"/> IRC <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)	Chloride 4500			
T-8 (1.5'-2')	5/8/2023		X		G	1	X	X	X			31
T-9 (0-1')	5/8/2023		X		G	1	X	X	X			33
T-9 (1'-1.5')	5/8/2023		X		G	1	X	X	X			34
T-9 (1.5'-2')	5/8/2023		X		G	1	X	X	X			35
T-9 (2'-3')	5/8/2023		X		G	1	X	X	X			36
T-9 (3'-4')	5/8/2023		X		G	1	X	X	X			37
T-10 (0-1')	5/8/2023		X		G	1	X	X	X			38
T-10 (1'-1.5')	5/8/2023		X		G	1	X	X	X			39
T-10 (1.5'-2')	5/8/2023		X		G	1	X	X	X			40
T-10 (2'-3')	5/8/2023		X		G	1	X	X	X			40

Comments:

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

[Signature]

5/8/23 1:30

[Signature]

Chain of Custody

Work Order No: 1232302

Page 5 of 5

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 Midland, TX 79701	Address:	600 N Marrenfield St, Suite 600 Midland, TX 79701
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"/> Ironfields <input type="checkbox"/> IRC <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:

Project Name:	Crawford 27-26 Fee 1H	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST	Preservative Codes
Project Number:	2020	Due Date:	Normal				None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₅ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC
Project Location:	Eddy County, New Mexico						
Sampler's Name:	GPJ & KB						
PO #:		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
SAMPLE RECEIPT		Received Intact:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Thermometer ID:	113		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:	N/A	Temperature Reading:	10.0°C		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Corrected Temperature:	5.7°C				
Total Containers:							

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Sample Comments
							BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	
T-10 (3'-4')	5/8/2023		X		G	1	X	X	X	41
T-11 (0-1')	5/9/2023		X		G	1	X	X	X	42
T-11 (1'-1.5')	5/9/2023		X		G	1	X	X	X	43
T-11 (1.5'-2')	5/9/2023		X		G	1	X	X	X	44

Comments:

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

5/9/23 13:10

Skateigover



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

May 12, 2023

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

RE: CRAWFORD 27-26 FEE 1H

Enclosed are the results of analyses for samples received by the laboratory on 05/09/23 13:26.

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". The signature is written in a cursive style.

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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 1 (0-0.5') (H232301-01)

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	05/10/2023	ND	2.10	105	2.00	4.30	
Toluene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	5.32	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.07	103	2.00	4.81	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.50	108	6.00	6.10	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/10/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	166	82.9	200	1.12	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	173	86.3	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 2 (0-0.5') (H232301-02)

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	05/10/2023	ND	2.10	105	2.00	4.30	
Toluene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	5.32	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.07	103	2.00	4.81	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.50	108	6.00	6.10	
Total BTEX	<0.300	0.300	05/10/2023	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	48.0	16.0	05/10/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	166	82.9	200	1.12	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	173	86.3	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 3 (0-0.5') (H232301-03)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	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	3920	16.0	05/10/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	166	82.9	200	1.12	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	173	86.3	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 4 (0-0.5') (H232301-04)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	160	16.0	05/10/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 94.4 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 5 (0-0.5') (H232301-05)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	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	48.0	16.0	05/10/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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Analytical Results For:

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

Received: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 6 (0-0.5') (H232301-06)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	05/10/2023	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	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 7 (0-0.5') (H232301-07)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/10/2023	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	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 8 (0-0.5') (H232301-08)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/10/2023	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	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 9 (0-0.5') (H232301-09)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/10/2023	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	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 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: 05/09/2023
 Reported: 05/12/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 10 (0-0.5') (H232301-10)

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	05/10/2023	ND	2.26	113	2.00	0.470	
Toluene*	<0.050	0.050	05/10/2023	ND	2.22	111	2.00	1.54	
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.16	108	2.00	0.997	
Total Xylenes*	<0.150	0.150	05/10/2023	ND	6.55	109	6.00	1.26	
Total BTEX	<0.300	0.300	05/10/2023	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	48.0	16.0	05/10/2023	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	05/10/2023	ND	175	87.6	200	0.453	
DRO >C10-C28*	<10.0	10.0	05/10/2023	ND	151	75.3	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	05/10/2023	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Chain of Custody

Work Order No: HA332301

Page 1 of 1

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 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	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Iperfund <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:	

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Preservative Codes	Sample Comments
							BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500		
H-1 (0- 0.5')	5/8/2023		X		G	1	X	X	X		
H-2 (0- 0.5')	5/8/2023		X		G	1	X	X	X		
H-3 (0- 0.5')	5/8/2023		X		G	1	X	X	X		
H-4 (0- 0.5')	5/8/2023		X		G	1	X	X	X		
H-5 (0- 0.5')	5/8/2023		X		G	1	X	X	X		
H-6 (0- 0.5')	5/8/2023		X		G	1	X	X	X		
H-7 (0- 0.5')	5/8/2023		X		G	1	X	X	X		
H-8 (0- 0.5')	5/8/2023		X		G	1	X	X	X		
H-9 (0- 0.5')	5/8/2023		X		G	1	X	X	X		
H-10 (0- 0.5')	5/8/2023		X		G	1	X	X	X		

Comments:

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time



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

June 09, 2023

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

RE: CRAWFORD 27-26 FEE 1H

Enclosed are the results of analyses for samples received by the laboratory on 06/08/23 15:15.

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

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.

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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: CS - 1 (4.5') (H232945-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	6.90	
Toluene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	7.45	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.28	114	2.00	7.71	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.74	112	6.00	7.61	
Total BTEX	<0.300	0.300	06/08/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/09/2023	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	06/08/2023	ND	204	102	200	6.27	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	188	94.2	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/08/2023
 Reported: 06/09/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 2 (4.5') (H232945-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	6.90	
Toluene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	7.45	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.28	114	2.00	7.71	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.74	112	6.00	7.61	
Total BTEX	<0.300	0.300	06/08/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/09/2023	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	06/08/2023	ND	204	102	200	6.27	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	188	94.2	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 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: 06/08/2023
 Reported: 06/09/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 3 (2.0') (H232945-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	6.90	
Toluene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	7.45	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.28	114	2.00	7.71	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.74	112	6.00	7.61	
Total BTEX	<0.300	0.300	06/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	144	16.0	06/09/2023	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	06/09/2023	ND	204	102	200	6.27	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	188	94.2	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/08/2023
 Reported: 06/09/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 4 (2.0') (H232945-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	6.90	
Toluene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	7.45	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.28	114	2.00	7.71	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.74	112	6.00	7.61	
Total BTEX	<0.300	0.300	06/08/2023	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	06/09/2023	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	06/09/2023	ND	204	102	200	6.27	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	188	94.2	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/08/2023
 Reported: 06/09/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 5 (2.0') (H232945-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	6.90	
Toluene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	7.45	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.28	114	2.00	7.71	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.74	112	6.00	7.61	
Total BTEX	<0.300	0.300	06/08/2023	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	06/09/2023	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	06/09/2023	ND	204	102	200	6.27	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	188	94.2	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: CS - 6 (2.0') (H232945-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	6.90	
Toluene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	7.45	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.28	114	2.00	7.71	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.74	112	6.00	7.61	
Total BTEX	<0.300	0.300	06/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/09/2023	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	06/09/2023	ND	204	102	200	6.27	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	188	94.2	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/08/2023
 Reported: 06/09/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 7 (2.0') (H232945-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	6.90	
Toluene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	7.45	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.28	114	2.00	7.71	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.74	112	6.00	7.61	
Total BTEX	<0.300	0.300	06/08/2023	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	96.0	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	204	102	200	6.27	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	188	94.2	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 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: 06/08/2023
 Reported: 06/09/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 8 (2.0') (H232945-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	6.90	
Toluene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	7.45	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.28	114	2.00	7.71	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.74	112	6.00	7.61	
Total BTEX	<0.300	0.300	06/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	204	102	200	6.27	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	188	94.2	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 103 % 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: 06/08/2023
 Reported: 06/09/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 9 (2.0') (H232945-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	6.90	
Toluene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	7.45	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.28	114	2.00	7.71	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.74	112	6.00	7.61	
Total BTEX	<0.300	0.300	06/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	204	102	200	6.27	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	188	94.2	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: CS - 10 (2.0') (H232945-10)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	6.90		
Toluene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	7.45		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.28	114	2.00	7.71		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.74	112	6.00	7.61		
Total BTEX	<0.300	0.300	06/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	06/09/2023	ND	448	112	400	3.64		

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	06/09/2023	ND	204	102	200	6.27		
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	188	94.2	200	7.15		
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND						

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: CS - 11 (2.0') (H232945-11)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	6.90		
Toluene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	7.45		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.28	114	2.00	7.71		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.74	112	6.00	7.61		
Total BTEX	<0.300	0.300	06/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/09/2023	ND	448	112	400	3.64		

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	06/09/2023	ND	204	102	200	6.27		
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	188	94.2	200	7.15		
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: CS - 12 (2.0') (H232945-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	6.90	
Toluene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	7.45	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.28	114	2.00	7.71	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.74	112	6.00	7.61	
Total BTEX	<0.300	0.300	06/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	204	102	200	6.27	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	188	94.2	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 103 % 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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: CS - 13 (2.0') (H232945-13)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	6.90		
Toluene*	<0.050	0.050	06/08/2023	ND	2.24	112	2.00	7.45		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.28	114	2.00	7.71		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.74	112	6.00	7.61		
Total BTEX	<0.300	0.300	06/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/09/2023	ND	448	112	400	3.64		

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	06/09/2023	ND	204	102	200	6.27		
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	188	94.2	200	7.15		
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND						

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received: 06/08/2023
 Reported: 06/09/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 14 (2.0') (H232945-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	6.90	
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	7.45	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.28	114	2.00	7.71	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.74	112	6.00	7.61	
Total BTEX	<0.300	0.300	06/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	204	102	200	6.27	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	188	94.2	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 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: 06/08/2023
 Reported: 06/09/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 15 (2.0') (H232945-15)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	6.90	
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	7.45	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.28	114	2.00	7.71	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.74	112	6.00	7.61	
Total BTEX	<0.300	0.300	06/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	204	102	200	6.27	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	188	94.2	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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: 06/08/2023
 Reported: 06/09/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 16 (2.0') (H232945-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	6.90	
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	7.45	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.28	114	2.00	7.71	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.74	112	6.00	7.61	
Total BTEX	<0.300	0.300	06/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	204	102	200	6.27	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	188	94.2	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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: 06/08/2023
 Reported: 06/09/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 17 (2.0') (H232945-17)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	6.90	
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	7.45	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.28	114	2.00	7.71	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.74	112	6.00	7.61	
Total BTEX	<0.300	0.300	06/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	204	102	200	6.27	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	188	94.2	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: CS - 18 (3.0') (H232945-18)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	6.90		
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	7.45		
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.28	114	2.00	7.71		
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.74	112	6.00	7.61		
Total BTEX	<0.300	0.300	06/09/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/09/2023	ND	448	112	400	3.64		

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	06/09/2023	ND	204	102	200	6.27		
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	188	94.2	200	7.15		
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND						

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 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: 06/08/2023
 Reported: 06/09/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 19 (3.0') (H232945-19)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	6.90	
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	7.45	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.28	114	2.00	7.71	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.74	112	6.00	7.61	
Total BTEX	<0.300	0.300	06/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	144	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	204	102	200	6.27	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	188	94.2	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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: 06/08/2023
 Reported: 06/09/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 20 (3.0') (H232945-20)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	6.90	
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	7.45	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.28	114	2.00	7.71	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.74	112	6.00	7.61	
Total BTEX	<0.300	0.300	06/09/2023	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	288	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	204	102	200	6.27	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	188	94.2	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: CS - 21 (3.0') (H232945-21)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2023	ND	2.04	102	2.00	0.858		
Toluene*	<0.050	0.050	06/08/2023	ND	2.05	103	2.00	0.363		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.01	100	2.00	1.92		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.24	104	6.00	1.92		
Total BTEX	<0.300	0.300	06/08/2023	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	112	16.0	06/09/2023	ND	448	112	400	3.64		

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	06/08/2023	ND	183	91.4	200	3.52		
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	195	97.6	200	6.46		
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND						

Surrogate: 1-Chlorooctane 88.2 % 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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: CS - 22 (2.0') (H232945-22)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2023	ND	2.04	102	2.00	0.858		
Toluene*	<0.050	0.050	06/08/2023	ND	2.05	103	2.00	0.363		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.01	100	2.00	1.92		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.24	104	6.00	1.92		
Total BTEX	<0.300	0.300	06/08/2023	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	64.0	16.0	06/09/2023	ND	448	112	400	3.64		

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	06/08/2023	ND	183	91.4	200	3.52		
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	195	97.6	200	6.46		
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND						

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

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

Received: 06/08/2023
 Reported: 06/09/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS - 23 (2.0') (H232945-23)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.04	102	2.00	0.858	
Toluene*	<0.050	0.050	06/08/2023	ND	2.05	103	2.00	0.363	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.01	100	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.24	104	6.00	1.92	
Total BTEX	<0.300	0.300	06/08/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	183	91.4	200	3.52	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	195	97.6	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: CS - 24 (2.0') (H232945-24)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.04	102	2.00	0.858	
Toluene*	<0.050	0.050	06/08/2023	ND	2.05	103	2.00	0.363	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.01	100	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.24	104	6.00	1.92	
Total BTEX	<0.300	0.300	06/08/2023	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	112	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	183	91.4	200	3.52	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	195	97.6	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: SW - 1 (4.5') (H232945-25)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.04	102	2.00	0.858	
Toluene*	<0.050	0.050	06/08/2023	ND	2.05	103	2.00	0.363	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.01	100	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.24	104	6.00	1.92	
Total BTEX	<0.300	0.300	06/08/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	183	91.4	200	3.52	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	195	97.6	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: SW - 2 (4.5') (H232945-26)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.04	102	2.00	0.858	
Toluene*	<0.050	0.050	06/08/2023	ND	2.05	103	2.00	0.363	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.01	100	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.24	104	6.00	1.92	
Total BTEX	<0.300	0.300	06/08/2023	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	192	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	183	91.4	200	3.52	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	195	97.6	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: SW - 3 (4.5') (H232945-27)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2023	ND	2.04	102	2.00	0.858		
Toluene*	<0.050	0.050	06/08/2023	ND	2.05	103	2.00	0.363		
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.01	100	2.00	1.92		
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.24	104	6.00	1.92		
Total BTEX	<0.300	0.300	06/08/2023	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	96.0	16.0	06/09/2023	ND	448	112	400	3.64	QM-07	

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	06/09/2023	ND	183	91.4	200	3.52		
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	195	97.6	200	6.46		
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: SW - 4 (2.5') (H232945-28)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.04	102	2.00	0.858	
Toluene*	<0.050	0.050	06/08/2023	ND	2.05	103	2.00	0.363	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.01	100	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.24	104	6.00	1.92	
Total BTEX	<0.300	0.300	06/08/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	183	91.4	200	3.52	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	195	97.6	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

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

Received: 06/08/2023
 Reported: 06/09/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 5 (2.0') (H232945-29)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.04	102	2.00	0.858	
Toluene*	<0.050	0.050	06/08/2023	ND	2.05	103	2.00	0.363	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.01	100	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.24	104	6.00	1.92	
Total BTEX	<0.300	0.300	06/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	183	91.4	200	3.52	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	195	97.6	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: SW - 6 (2.0') (H232945-30)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.04	102	2.00	0.858	
Toluene*	<0.050	0.050	06/08/2023	ND	2.05	103	2.00	0.363	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.01	100	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.24	104	6.00	1.92	
Total BTEX	<0.300	0.300	06/08/2023	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	144	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	183	91.4	200	3.52	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	195	97.6	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

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

Received: 06/08/2023
 Reported: 06/09/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 7 (2.0') (H232945-31)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2023	ND	2.04	102	2.00	0.858	
Toluene*	<0.050	0.050	06/08/2023	ND	2.05	103	2.00	0.363	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.01	100	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.24	104	6.00	1.92	
Total BTEX	<0.300	0.300	06/08/2023	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	144	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	183	91.4	200	3.52	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	195	97.6	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: SW - 8 (2.0') (H232945-32)

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	06/08/2023	ND	2.04	102	2.00	0.858	
Toluene*	<0.050	0.050	06/08/2023	ND	2.05	103	2.00	0.363	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.01	100	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.24	104	6.00	1.92	
Total BTEX	<0.300	0.300	06/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	183	91.4	200	3.52	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	195	97.6	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: SW - 9 (2.0') (H232945-33)

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	06/08/2023	ND	2.04	102	2.00	0.858	
Toluene*	<0.050	0.050	06/08/2023	ND	2.05	103	2.00	0.363	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.01	100	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.24	104	6.00	1.92	
Total BTEX	<0.300	0.300	06/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	183	91.4	200	3.52	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	195	97.6	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: SW - 10 (2.0') (H232945-34)

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	06/08/2023	ND	2.04	102	2.00	0.858	
Toluene*	<0.050	0.050	06/08/2023	ND	2.05	103	2.00	0.363	
Ethylbenzene*	<0.050	0.050	06/08/2023	ND	2.01	100	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/08/2023	ND	6.24	104	6.00	1.92	
Total BTEX	<0.300	0.300	06/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	144	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	183	91.4	200	3.52	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	195	97.6	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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: 06/08/2023
 Reported: 06/09/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 11 (2.0') (H232945-35)

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	06/09/2023	ND	2.04	102	2.00	0.858	
Toluene*	<0.050	0.050	06/09/2023	ND	2.05	103	2.00	0.363	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.01	100	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.24	104	6.00	1.92	
Total BTEX	<0.300	0.300	06/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	183	91.4	200	3.52	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	195	97.6	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: SW - 12 (2.0') (H232945-36)

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	06/09/2023	ND	2.04	102	2.00	0.858	
Toluene*	<0.050	0.050	06/09/2023	ND	2.05	103	2.00	0.363	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.01	100	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.24	104	6.00	1.92	
Total BTEX	<0.300	0.300	06/09/2023	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	112	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	183	91.4	200	3.52	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	195	97.6	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: SW - 13 (2.0') (H232945-37)

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	06/09/2023	ND	2.04	102	2.00	0.858	
Toluene*	<0.050	0.050	06/09/2023	ND	2.05	103	2.00	0.363	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.01	100	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.24	104	6.00	1.92	
Total BTEX	<0.300	0.300	06/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	183	91.4	200	3.52	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	195	97.6	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: SW - 14 (2.0') (H232945-38)

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	06/09/2023	ND	2.04	102	2.00	0.858	
Toluene*	<0.050	0.050	06/09/2023	ND	2.05	103	2.00	0.363	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.01	100	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.24	104	6.00	1.92	
Total BTEX	<0.300	0.300	06/09/2023	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	240	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	183	91.4	200	3.52	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	195	97.6	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: SW - 15 (1.0') (H232945-39)

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	06/09/2023	ND	2.04	102	2.00	0.858	
Toluene*	<0.050	0.050	06/09/2023	ND	2.05	103	2.00	0.363	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.01	100	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.24	104	6.00	1.92	
Total BTEX	<0.300	0.300	06/09/2023	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	240	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	183	91.4	200	3.52	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	195	97.6	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: SW - 16 (3.0') (H232945-40)

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	06/09/2023	ND	2.04	102	2.00	0.858	
Toluene*	<0.050	0.050	06/09/2023	ND	2.05	103	2.00	0.363	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.01	100	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.24	104	6.00	1.92	
Total BTEX	<0.300	0.300	06/09/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	183	91.4	200	3.52	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	195	97.6	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: SW - 17 (3.0') (H232945-41)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	0.0813	
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	0.259	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.19	110	2.00	0.321	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.62	110	6.00	0.0902	
Total BTEX	<0.300	0.300	06/09/2023	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	128	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	204	102	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	205	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 49.1-148

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Analytical Results For:

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

Received: 06/08/2023
 Reported: 06/09/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 18 (3.0') (H232945-42)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	0.0813	
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	0.259	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.19	110	2.00	0.321	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.62	110	6.00	0.0902	
Total BTEX	<0.300	0.300	06/09/2023	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	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	204	102	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	205	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: SW - 19 (1.0') (H232945-43)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	0.0813	
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	0.259	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.19	110	2.00	0.321	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.62	110	6.00	0.0902	
Total BTEX	<0.300	0.300	06/09/2023	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	320	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	204	102	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	205	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 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:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: SW - 20 (2.0') (H232945-44)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	0.0813	
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	0.259	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.19	110	2.00	0.321	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.62	110	6.00	0.0902	
Total BTEX	<0.300	0.300	06/09/2023	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	160	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	204	102	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	205	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 06/08/2023
 Reported: 06/09/2023
 Project Name: CRAWFORD 27-26 FEE 1H
 Project Number: 2020
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 06/08/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 21 (2.0') (H232945-45)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	0.0813	
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	0.259	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.19	110	2.00	0.321	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.62	110	6.00	0.0902	
Total BTEX	<0.300	0.300	06/09/2023	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	336	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	204	102	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	205	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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Analytical Results For:

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

Received:	06/08/2023	Sampling Date:	06/08/2023
Reported:	06/09/2023	Sampling Type:	Soil
Project Name:	CRAWFORD 27-26 FEE 1H	Sampling Condition:	Cool & Intact
Project Number:	2020	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: SW - 22 (2.0') (H232945-46)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.26	113	2.00	0.0813	
Toluene*	<0.050	0.050	06/09/2023	ND	2.24	112	2.00	0.259	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.19	110	2.00	0.321	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.62	110	6.00	0.0902	
Total BTEX	<0.300	0.300	06/09/2023	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	224	16.0	06/09/2023	ND	448	112	400	3.64	

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	06/09/2023	ND	204	102	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	205	102	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 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
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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

District II
 811 S. First St., Artesia, NM 88210
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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 232965

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 232965
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	11/28/2023