

CARMONA RESOURCES



SITE INFORMATION

Closure Report
Cascade 29 Federal Com 75H Drill Cuttings
Incident ID: nAPP2320576371
Lea County, New Mexico
Unit B Sec 5 T26S R33E
32.079316°, -103.591916°

Point of Release:

A broken latch on an end dump trailer released drill cuttings sporadically.

Release Date: 07/22/2023

Volume Released: 1 cubic yard of oil-based mud/cuttings

Volume Recovered: 0 cubic yards of oil-based mud/cuttings

CARMONA RESOURCES



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

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

310 West Wall Street, Suite 500
Midland TX, 79701
432.813.1992



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August 2, 2023

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

Re: Closure Report
Cascade 29 Federal Com 75H Drill Cuttings
Incident ID: nAPP2320576371
Cimarex Energy Co. of Colorado
Site Location: Unit B, S5, T26S, R33E
(Lat 32.079316°, Long -103.591916°)
Lea County, New Mexico

Mr. Bratcher:

On behalf of Cimarex Energy Co. of Colorado (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for the Cascade 29 Federal Com 75H Drilling Cuttings release. The site is located at 32.079316°, -103.591916° within Unit B, S5, T26S, R33E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on July 22, 2023, caused by a sheared latch on the dump of an end dump trailer, releasing material sporadically along three (3) miles of caliche lease road going toward Battle Axe Road and along approximately eleven (11) miles of Battle Axe Road. It resulted in approximately one (1) cubic yard of oil-based mud/cuttings. Waste Management was immediately notified and dispatched a 3rd party contractor to remove all impact along battle axe road. The impacted lease road was also scraped on the surface to remove any staining. The impacted material was hauled to the landfill for disposal. The affected area was confined to the lease road and blacktop road. Refer to Figure 3 for a spill overview. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, three (3) known water sources are within a 0.50-mile radius of the location. The nearest identified well is approximately 0.19 miles North of the site in S03, T26S, R33E and was drilled in 1974. The well has a reported depth to groundwater of 175' feet below the ground surface (ft bgs). One of the three wells located within a 0.50-mile radius of the location is located 0.24 miles South of the site in S03, T26S, R33E and was last measured in 2006. A copy of the associated Summary Report(s) 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: 1,000 mg/kg (GRO + DRO).



- TPH: 2,500 mg/kg (GRO + DRO + MRO).
- Chloride: 20,000 mg/kg.

4.0 Site Assessment Activities

On July 27, 2023, and July 28, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts. To assess the vertical extent, forty-six (46) sample points were advanced to depths from the surface to 3" below ground surface (bgs) along the lease road. 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.

All soil samples were below the reclamation and regulatory requirements for TPH, BTEX, and chloride. Refer to Table 1.

5.0 Conclusions

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

Sincerely,

Carmona Resources, LLC

Ashton Thielke
Sr. Project Manager

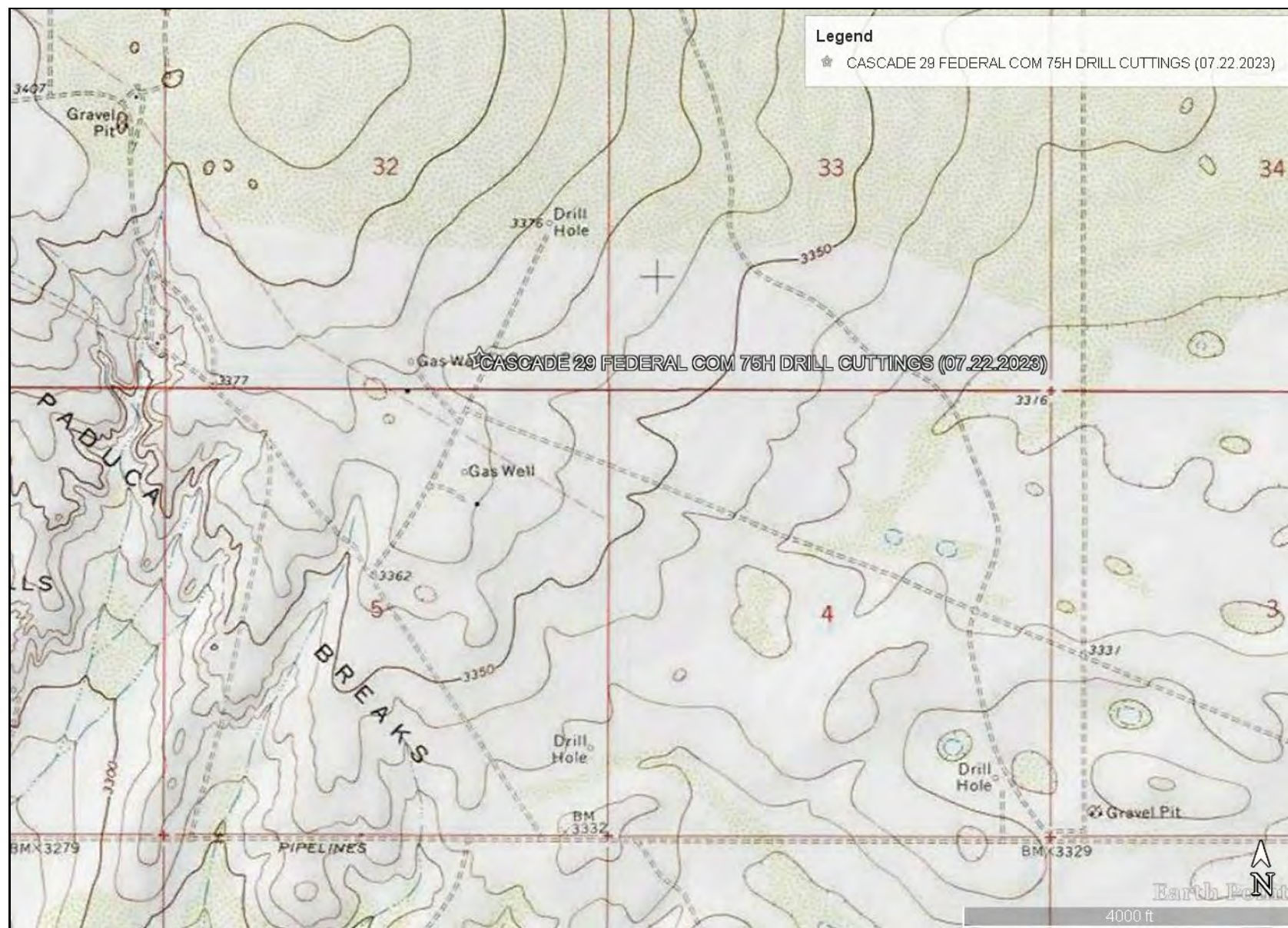
Conner Moehring
Sr. Project Manager

FIGURES

CARMONA RESOURCES



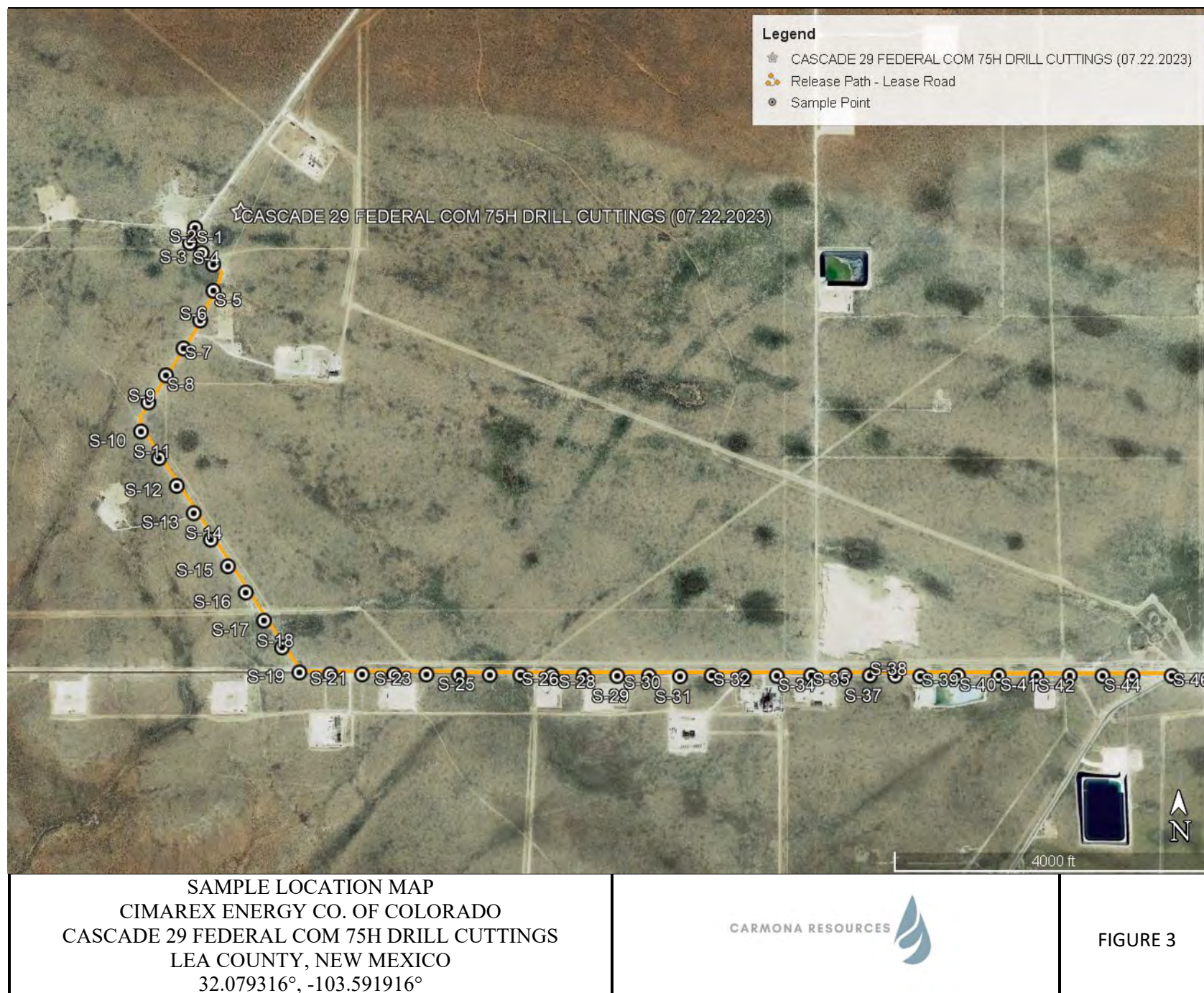




TOPOGRAPHIC MAP
 CIMAREX ENERGY CO. OF COLORADO
 CASCADE 29 FEDERAL COM 75H DRILL CUTTINGS
 LEA COUNTY, NEW MEXICO
 32.079316°, -103.591916°



FIGURE 2



APPENDIX A

CARMONA RESOURCES



Table 1
Cimarex Energy Co. of Colorado
Cascade 29 Federal Com 75H Drill Cuttings (07.22.2023)
Lea County, New Mexico

SamA6:M98ple ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
S-2	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	432
S-3	7/27/2023	(0-3")	<10.0	31.6	<10.0	31.6	<0.050	<0.050	<0.050	<0.150	<0.300	304
S-4	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
S-5	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
S-6	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
S-7	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
S-8	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	624
S-9	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
S-10	7/27/2023	(0-3")	<10.0	40.7	<10.0	40.7	<0.050	<0.050	<0.050	<0.150	<0.300	688
S-11	7/27/2023	(0-3")	<10.0	10.9	<10.0	10.9	<0.050	<0.050	<0.050	<0.150	<0.300	624
S-12	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
S-13	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
S-14	7/27/2023	(0-3")	<10.0	37.6	<10.0	37.6	<0.050	<0.050	<0.050	<0.150	<0.300	592
S-15	7/27/2023	(0-3")	<10.0	31.9	<10.0	31.9	<0.050	<0.050	<0.050	<0.150	<0.300	192
S-16	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	704
S-17	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	528
S-18	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
S-19	7/27/2023	(0-3")	<10.0	19.7	<10.0	19.7	<0.050	<0.050	<0.050	<0.150	<0.300	752
S-20	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	992
S-21	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	656
S-22	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
S-23	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	944
S-24	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
S-25	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
S-26	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	672
S-27	7/27/2023	(0-3")	<10.0	21.4	<10.0	21.4	<0.050	<0.050	<0.050	<0.150	<0.300	400
S-28	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	736
S-29	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368
S-30	7/27/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	720
S-31	7/28/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	704
S-32	7/28/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
S-33	7/28/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	400
S-34	7/28/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	592
S-35	7/28/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,170
S-36	7/28/2023	(0-3")	<10.0	76.9	<10.0	76.9	<0.050	<0.050	<0.050	<0.150	<0.300	1,040
S-37	7/28/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	432
S-38	7/28/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	704
S-39	7/28/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	896
S-40	7/28/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	576
S-41	7/28/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	992
S-42	7/28/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	832
S-43	7/28/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,420
S-44	7/28/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,220
S-45	7/28/2023	(0-3")	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,810
S-46	7/28/2023	(0-3")	<10.0	25.7	<10.0	25.7	<0.050	<0.050	<0.050	<0.150	<0.300	1,880
Regulatory Criteria ^A			1,000 mg/kg		2,500 mg/kg		10 mg/kg				50 mg/kg	20,000 mg/kg

(-) Not Analyzed

^A - Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(S) Sample Point

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado

Photograph No. 1

Facility: Cascade 29 Federal Com 75H

County: Lea County, New Mexico

Description:
View of the initial release.



Photograph No. 2

Facility: Cascade 29 Federal Com 75H

County: Lea County, New Mexico

Description:
View of the initial release.

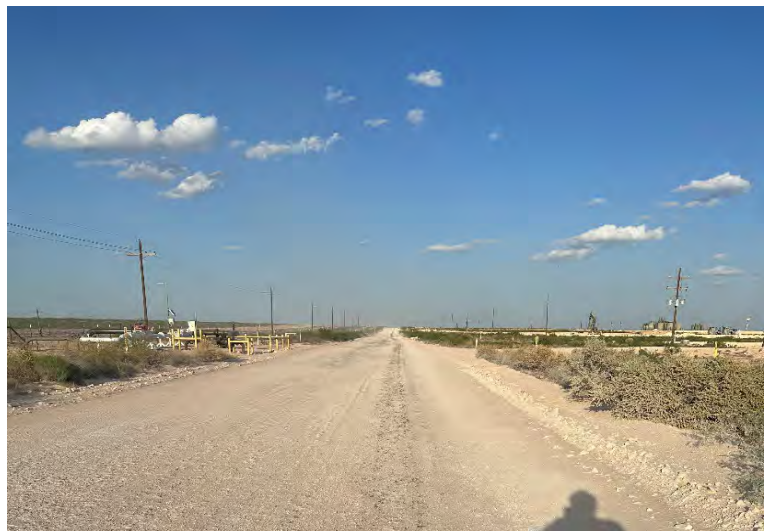


Photograph No. 3

Facility: Cascade 29 Federal Com 75H

County: Lea County, New Mexico

Description:
View of the initial release.



PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado

Photograph No. 4

Facility: Cascade 29 Federal Com 75H

County: Lea County, New Mexico

Description:

View South, lease road during surface scrape.



Photograph No. 5

Facility: Cascade 29 Federal Com 75H

County: Lea County, New Mexico

Description:

View Southeast, lease road during surface scrape.



Photograph No. 6

Facility: Cascade 29 Federal Com 75H

County: Lea County, New Mexico

Description:

View South, lease road during surface scrape.



PHOTOGRAPHIC LOG**Cimarex Energy Co. of Colorado****Photograph No. 7****Facility:** Cascade 29 Federal Com 75H**County:** Lea County, New Mexico**Description:**

View Southeast, lease road during sampling event.

**Photograph No. 8****Facility:** Cascade 29 Federal Com 75H**County:** Lea County, New Mexico**Description:**

View West, lease road during sampling event.

**Photograph No. 9****Facility:** Cascade 29 Federal Com 75H**County:** Lea County, New Mexico**Description:**

View East, lease road during sampling event.



PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado

Photograph No. 10

Facility: Cascade 29 Federal Com 75H

County: Lea County, New Mexico

Description:

View West, lease road during sampling event.



Photograph No. 11

Facility: Cascade 29 Federal Com 75H

County: Lea County, New Mexico

Description:

View East, lease road during sampling event.



Photograph No. 12

Facility: Cascade 29 Federal Com 75H

County: Lea County, New Mexico

Description:

View Northwest, lease road during sampling event.



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	nAPP2320576371
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Cimarex Energy Co. of Colorado	OGRID: 162683
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: laci.luig@coterra.com	Incident # (assigned by OCD) nAPP2320576371
Contact mailing address: 6001 Deauville Blvd., Suite 300N Midland, TX 79706	

Location of Release Source

Latitude 32.079316 Longitude -103.591916
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Cascade 29 Federal Com 75H Drill Cuttings	Site Type: Lease Road
Date Release Discovered: 7/22/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
B	5	26S	33E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Basin Properties)

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 type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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 checked="" type="checkbox"/> Other (describe)	Volume/Weight Released (provide units) 1 yard oil based mud/cuttings	Volume/Weight Recovered (provide units) 0

Cause of Release: Equipment Failure

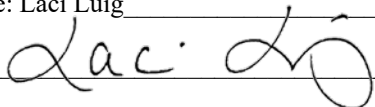
Around 7:00 pm CST on 7/22/2023, an oil base cuttings spill on a lease road in Lea County, NM was reported to our EHS department. A Waste Management truck was hauling cuttings from the Cactus 148 drilling rig, currently drilling Cimarex Energy's Cascade 29 Federal Com 75H, to Waste Management's landfill in Orla, TX. A mount on the end dump trailer sheared off, allowing slack in the gate of the trailer. Cuttings were found, sporadically, along 3 miles of the caliche lease road going towards Battle Axe Road, and sporadically along ~11 miles of Battle Axe road to the stop sign at C-1. The driver realized his trailer was releasing cuttings after pulling onto C-1 and immediately pulled off the road. Repairs were made to the trailer to prevent additional impact. Waste Management was immediately notified and dispatched a 3rd party contractor to remove all impact found along Battle Axe Road. The impacted lease roads were surface scraped and the impact hauled to the landfill for disposal. A total of 1 cubic yard of oil based mud was released from the trailer.

Incident ID	nAPP2320576371
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: Laci Luig To: OCD Enviro, BLM, SLO 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: 7/24/2023
email: laci.luig@coterra.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

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature:  Date: _____

email: _____ Telephone: _____

OCD OnlyReceived by: Shelly Wells Date: 8/3/2023

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature:  Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 8/3/2023

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

Closure Approved by:  Date: 11/02/2023

Printed Name: Nelson Velez Title: Environmental Specialist - Adv

Ashton Thielke

From: Laci Luig
Sent: Tuesday, July 25, 2023 4:28 PM
To: Ashton Thielke
Subject: Fwd: [EXTERNAL] FW: Cimarex Incident - Cascade 29 Federal Com 75H drill cuttings

Laci Luig
(432) 208-3035

Begin forwarded message:

From: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>
Date: July 25, 2023 at 8:47:57 AM CDT
To: Laci Luig <Laci.Luig@coterra.com>
Cc: Flip Tarin <Flip.Tarin@coterra.com>, Phillip Levasseur <Phillip.Levasseur@coterra.com>
Subject: RE: [EXTERNAL] FW: Cimarex Incident - Cascade 29 Federal Com 75H drill cuttings

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.

Laci,

Samples will need to be tested for chloride as well as hydrocarbons listed on Table 1 in 19.15.29 NMAC. With the release being dry drill cuttings from an oil-based mud system, OCD will look more to the hydrocarbon component if impacts are discovered. Since the release occurred on a high traffic lease road, there does exist the possibility that produced water has been illegally applied to the road at some point. OCD will take that in to consideration when evaluating the data with the intent to not have Cimarex held responsible for past transgressions that may have occurred on the road. If this were a fluid release from, for example, a flow line, that impacted the road, OCD would not be able to make that distinction.

It is OCD's understanding that visually identifiable released cuttings were scraped from the lease road relatively soon after the occurrence, and hauled to a disposal. OCD is asking for spot samples to be obtained along the release path. If sample data is acceptable for closure, samples representative of 200 square feet will not be required for closure of this incident. If in the event contamination is discovered and remedial efforts are required, all relative aspects of 19.15.29 NMAC will be applicable for the remediated area, but not necessarily the entire length of the release.

OCD would like to see the sampling take place as soon as possible and will waive the requisite two business day's notification for obtaining samples, but do let me know when that is scheduled.

Please include this and any other correspondence in your closure/remediation report.

Thank you,

Mike Bratcher • Incident Supervisor
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave | Artesia, NM 88210
(575) 626-0857 | mike.bratcher@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd>



From: Laci Luig <Laci.Luig@coterra.com>
Sent: Monday, July 24, 2023 4:33 PM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Flip Tarin <Flip.Tarin@coterra.com>; Phillip Levasseur <Phillip.Levasseur@coterra.com>
Subject: [EXTERNAL] FW: Cimarex Incident - Cascade 29 Federal Com 75H drill cuttings

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

Mr. Bratcher,

Thank you for taking my call today and answering all my questions.

As we discussed earlier:

1. The estimated 1 cu yd oil based cuttings release along the 3 mile stretch of lease road will be treated as a reportable spill.
2. I will notify you once the NOR and Initial C-141 have been submitted through the portal.
3. Since the 3 miles of lease roads has been surface scraped, and with the heavy traffic in the area, we will collect spot samples (surface samples) along the road to confirm no impact was left in place.
 1. Do we need to request a >200 sq ft sampling variance?
4. The samples collected will be ran for hydro carbons (please correct me if you stated otherwise).
5. Manifest and other supporting documents provided by Waste Management will be provided in the Closure Report.
6. Sampling on Battle Axe Road (black top) will not take place.

Please let me know if I missed anything.

Hope you have a great evening!

Laci Luig

(432) 208-3035

From: Laci Luig

Sent: Saturday, July 22, 2023 11:18 PM

To: Mike Bratcher - EMNRD <mike.bratcher@emnrd.nm.gov>; Crisha Morgan - BLM <camorgan@blm.gov>; Becky Griffin - NM SLO <bgriffin@slo.state.nm.us>; NMOCD Spill Notifications <OCD.Enviro@emnrd.nm.gov>; BLM Spill Notifications <BLM_NM_CFO_Spill@blm.gov>; SLO Spills <spills@slo.state.nm.us>

Cc: Flip Tarin <Flip.Tarin@coterra.com>; Tell Montoya <Tell.Montoya@coterra.com>; Ned Polk <ned.polk@coterra.com>

Subject: Cimarex Incident - Cascade 29 Federal Com 75H drill cuttings

All,

Around 7:00 pm CST, an oil base cuttings spill on a lease road in Lea County, NM was reported to our EHS department. A Waste Management truck was hauling cuttings from the Cactus 148 drilling rig, currently drilling Cimarex Energy's Cascade 29 Federal Com 75H, to Waste Management's landfill in Orla, TX. A mount on the end dump trailer sheared off, allowing slack in the gate of the trailer. Cuttings were found, sporadically, along 3 miles of the caliche lease road going towards Battle Axe Road, and sporadically along ~11 miles of Battle Axe road to the stop sign at C-1. It appeared the cuttings trail crossed into Texas, but at this time we are not aware of how far along 652 the cuttings released. At some point, the driver realized what happened and pulled off the road. Repairs were made to the trailer to prevent additional impact. Waste Management was immediately notified and dispatched a 3rd party contractor to remove all impact found along Battle Axe Road, 652 in Texas and the lease road in Lea County. Additional impact removed from the roads will be disposed of at the Waste Management landfill.

Attached are pictures provided of the release in along NM roads. We will keep everyone updated of the situation. Please feel free to call with any additional questions.

Release point

Coordinates: 32.077698, -103.591803

B-5-26S-33E

Lea County

Thank you,



COTERRA

Laci Luig | Environmental, Health & Safety Specialist

T: 432.571.7810 | M: 432.208.3035 | laci.luig@coterra.com | www.coterra.com
Coterra Energy Inc. | 6001 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



Cimarex Energy



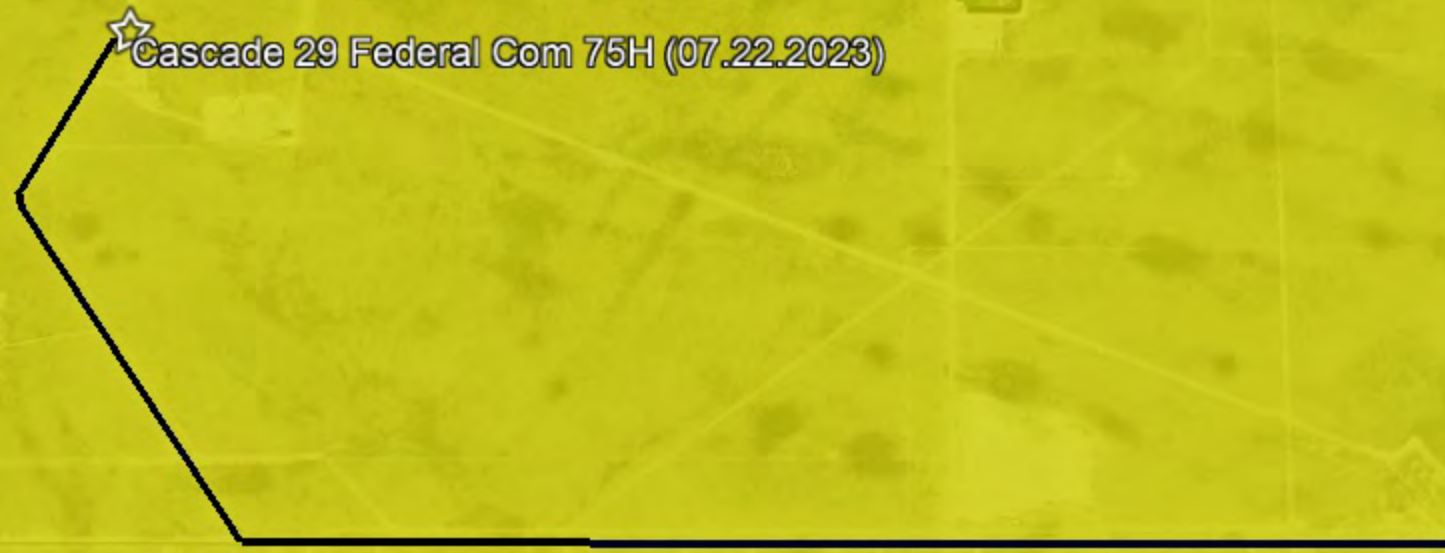
medium karst

Cimarex Energy

Legend

- ☆ Cascade 29 Federal Com 75H (07.22.2023)
- Low
- Medium
- Release Path - Lease Road

☆ Cascade 29 Federal Com 75H (07.22.2023)



1 mi

N



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 04547 POD1	CUB	LE		2	4	4	07	26S	33E	631686	3547262	2012	112		
C 04537 POD1	C	LE		4	4	4	31	25S	33E	631847	3550243	2239	500	280	220
C 02287	C	LE		3	4	4	03	26S	33E	636427	3548708	3168	220		
C 02286	CUB	LE		3	4	4	03	26S	33E	636470	3548714	3211	220	175	45
C 02290	CUB	LE		4	4	4	03	26S	33E	636538	3548770	3283	200	160	40
C 02289	CUB	LE		4	4	4	03	26S	33E	636612	3548675*	3351	200	160	40
C 02285 POD1	CUB	LE		1	4	4	03	26S	33E	636613	3548855	3365	220	220	0
C 02288	CUB	LE		4	4	4	03	26S	33E	636646	3548758	3390	220	180	40
C 02273	CUB	LE			1	2	21	26S	33E	634549	3545134*	3611	160	120	40
C 04485 POD1	CUB	LE		4	1	1	12	26S	32E	629039	3548125	4243	55		
C 02294	CUB	LE		4	4	3	11	26S	33E	637465	3547003	4462	200	145	55
C 02293	CUB	LE		2	2	1	14	26S	33E	637501	3546975	4505	200	135	65

Average Depth to Water: **175 feet**

Minimum Depth: **120 feet**

Maximum Depth: **280 feet**

Record Count: 12

UTM NAD83 Radius Search (in meters):

Easting (X): 633264.92

Northing (Y): 3548510

Radius: 5000

*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.

7/25/23 8:28 PM


Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02286	3	4	4	03	26S	33E	636470	3548714 
<div>x</div>									
Driller License:		Driller Company:							
Driller Name:									
Drill Start Date:		Drill Finish Date:				12/31/1974		Plug Date:	
Log File Date:		PCW Rcv Date:				Source:			
Pump Type:		Pipe Discharge Size:				Estimated Yield: 18 GPM			
Casing Size:	8.00	Depth Well:				220 feet		Depth Water:	175 feet

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7/25/23 8:32 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(quarters are smallest to largest)		(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y				
C	02285 POD1	1	4	4	03	26S	33E	636613	3548855				
<hr/>													
Driller License:		Driller Company:											
Driller Name:													
Drill Start Date:		Drill Finish Date:				12/31/1982		Plug Date:					
Log File Date:		PCW Rev Date:						Source:		Shallow			
Pump Type:		Pipe Discharge Size:						Estimated Yield:		18 GPM			
Casing Size:	8.00	Depth Well:				220 feet		Depth Water:		220 feet			
<hr/>													


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7/25/23 8:34 PM

POINT OF DIVERSION SUMMARY

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

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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320342103331401

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

USGS 320342103331401 26S.33E.03.444113

Lea County, New Mexico
Latitude 32°03'42", Longitude 103°33'14" NAD27
Land-surface elevation 3,334 feet above NAVD88
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
1970-12-07			D 62610		3221.09	NGVD29	P		Z	
1970-12-07			D 62611		3222.67	NAVD88	P		Z	
1970-12-07			D 72019	111.33			P		Z	
1976-01-08			D 62610		3221.62	NGVD29	1		Z	
1976-01-08			D 62611		3223.20	NAVD88	1		Z	
1976-01-08			D 72019	110.80			1		Z	
1981-03-24			D 62610		3222.20	NGVD29	P		Z	
1981-03-24			D 62611		3223.78	NAVD88	P		Z	
1981-03-24			D 72019	110.22			P		Z	
1986-03-04			D 62610		3219.42	NGVD29	1		Z	
1986-03-04			D 62611		3221.00	NAVD88	1		Z	
1986-03-04			D 72019	113.00			1		Z	
1991-06-12			D 62610		3219.42	NGVD29	1		Z	
1991-06-12			D 62611		3221.00	NAVD88	1		Z	
1991-06-12			D 72019	113.00			1		Z	

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	
1996-03-06	D	62610	3219.98	NGVD29	1	S	
1996-03-06	D	62611	3221.56	NAVD88	1	S	
1996-03-06	D	72019	112.44		1	S	
2001-02-27	D	62610	3220.02	NGVD29	1	S	
2001-02-27	D	62611	3221.60	NAVD88	1	S	
2001-02-27	D	72019	112.40		1	S	
2006-02-07 17:47 UTC	m	62610	3208.54	NGVD29	1	S	USGS
2006-02-07 17:47 UTC	m	62611	3210.12	NAVD88	1	S	USGS
2006-02-07 17:47 UTC	m	72019	123.88		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
Status	P	Pumping
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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Title: Groundwater for New Mexico: Water Levels

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



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Page Last Modified: 2023-07-25 22:40:22 EDT

0.28 0.24 nadww01



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National Water Information System: Web Interface


USGS Water Resources

Data Category:
Groundwater

Geographic Area:
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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320449103360101

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

USGS 320449103360101 25S.33E.31.44424

Lea County, New Mexico
Latitude 32°04'49", Longitude 103°36'01" NAD27
Land-surface elevation 3,383 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1981-03-25			D	62610	3189.23	NGVD29	P		Z	
1981-03-25			D	62611	3190.85	NAVD88	P		Z	
1981-03-25			D	72019	192.15		P		Z	
1986-03-18			D	62610	3191.59	NGVD29	1		Z	
1986-03-18			D	62611	3193.21	NAVD88	1		Z	
1986-03-18			D	72019	189.79		1		Z	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface

Section	Code	Description
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)
Title: Groundwater for New Mexico: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>




Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2023-07-25 22:44:02 EDT
0.28 0.25 nadww02



New Mexico Office of the State Engineer

Point of Diversion Summary

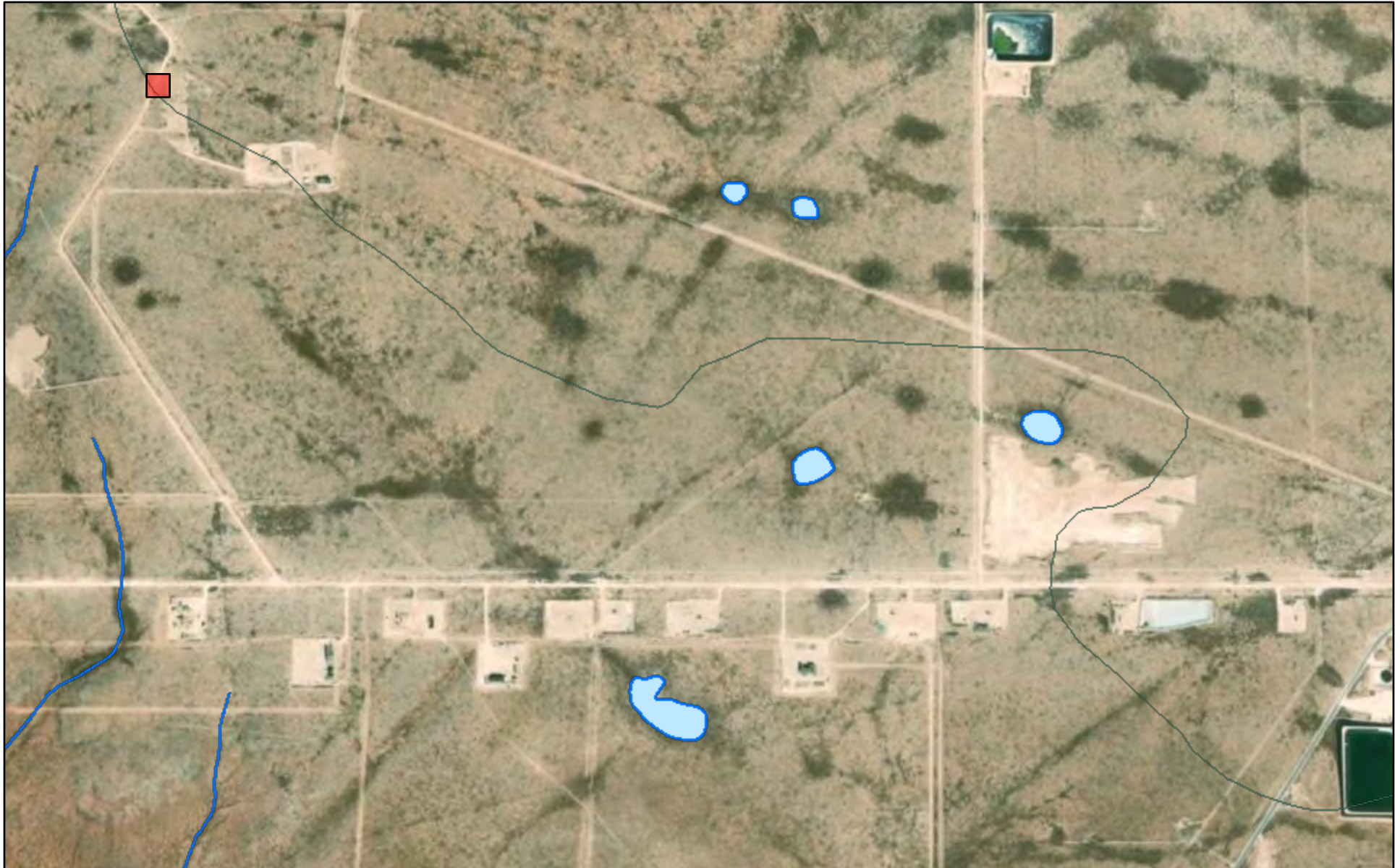
		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)				(NAD83 UTM in meters)		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y			
20E6C	C 04537 POD1	4	4	4	31	25S	33E	631847	3550243			
x												
Driller License:		1706		Driller Company:			ELITE DRILLERS CORPORATION					
Driller Name:		WALLACE, BRYCE J.LEE.NER										
Drill Start Date:		06/11/2021		Drill Finish Date:			06/12/2021		Plug Date:			
Log File Date:		06/21/2021		PCW Rev Date:						Source: Shallow		
Pump Type:					Pipe Discharge Size:						Estimated Yield: 5 GPM	
Casing Size:		4.00		Depth Well:			500 feet		Depth Water:		280 feet	
x												
Water Bearing Stratifications:				Top	Bottom	Description						
				220	340	Sandstone/Gravel/Conglomerate						
x												
Casing Perforations:				Top	Bottom							
				300	500							
x												

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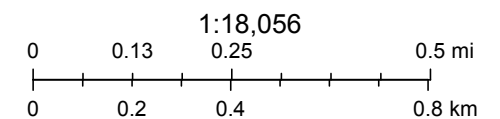
7/25/23 8:30 PM

POINT OF DIVERSION SUMMARY

New Mexico NFHL Data



July 25, 2023



FEMA, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, Maxar, Earthstar Geographics, and the GIS

nmflood.org is made possible through a collaboration with NMDHSEM,

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

APPENDIX E

CARMONA RESOURCES





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

July 31, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: CASCADE 29 FEDERAL COM 75 H (07.22.2023)

Enclosed are the results of analyses for samples received by the laboratory on 07/27/23 15:40.

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 with a large, stylized 'C' at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 1 (0-3") (H233959-01)

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	07/28/2023	ND	2.21	111	2.00	4.87	
Toluene*	<0.050	0.050	07/28/2023	ND	2.17	109	2.00	5.39	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.10	105	2.00	5.11	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.27	104	6.00	3.84	
Total BTEX	<0.300	0.300	07/28/2023	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	336	16.0	07/30/2023	ND	400	100	400	11.3		

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	07/28/2023	ND	187	93.3	200	1.57	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	198	98.8	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 2 (0-3") (H233959-02)

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	07/28/2023	ND	2.21	111	2.00	4.87		
Toluene*	<0.050	0.050	07/28/2023	ND	2.17	109	2.00	5.39		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.10	105	2.00	5.11		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.27	104	6.00	3.84		
Total BTEX	<0.300	0.300	07/28/2023	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	432	16.0	07/30/2023	ND	400	100	400	11.3		

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	07/28/2023	ND	187	93.3	200	1.57	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	198	98.8	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 85.5 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 3 (0-3") (H233959-03)

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	07/28/2023	ND	2.21	111	2.00	4.87		
Toluene*	<0.050	0.050	07/28/2023	ND	2.17	109	2.00	5.39		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.10	105	2.00	5.11		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.27	104	6.00	3.84		
Total BTEX	<0.300	0.300	07/28/2023	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	304	16.0	07/30/2023	ND	400	100	400	11.3		

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	07/28/2023	ND	187	93.3	200	1.57	
DRO >C10-C28*	31.6	10.0	07/28/2023	ND	198	98.8	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 4 (0-3") (H233959-04)

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	07/28/2023	ND	2.02	101	2.00	1.63	
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77	
Total BTEX	<0.300	0.300	07/28/2023	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	176	16.0	07/30/2023	ND	400	100	400	11.3	

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 5 (0-3") (H233959-05)

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	07/28/2023	ND	2.02	101	2.00	1.63	
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77	
Total BTEX	<0.300	0.300	07/28/2023	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	160	16.0	07/30/2023	ND	400	100	400	11.3	

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 6 (0-3") (H233959-06)

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	07/28/2023	ND	2.02	101	2.00	1.63		
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77		
Total BTEX	<0.300	0.300	07/28/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/30/2023	ND	400	100	400	11.3		

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 7 (0-3") (H233959-07)

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	07/28/2023	ND	2.02	101	2.00	1.63		
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77		
Total BTEX	<0.300	0.300	07/28/2023	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	336	16.0	07/30/2023	ND	400	100	400	11.3		

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 8 (0-3") (H233959-08)

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	07/28/2023	ND	2.02	101	2.00	1.63		
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77		
Total BTEX	<0.300	0.300	07/28/2023	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	624	16.0	07/30/2023	ND	400	100	400	11.3		

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 9 (0-3") (H233959-09)

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	07/28/2023	ND	2.02	101	2.00	1.63		
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77		
Total BTEX	<0.300	0.300	07/28/2023	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	336	16.0	07/30/2023	ND	400	100	400	11.3		

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 10 (0-3") (H233959-10)

BTX 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	07/28/2023	ND	2.02	101	2.00	1.63		
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77		
Total BTX	<0.300	0.300	07/28/2023	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	688	16.0	07/30/2023	ND	400	100	400	11.3	

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	40.7	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.4 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 11 (0-3") (H233959-11)

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	07/28/2023	ND	2.02	101	2.00	1.63		
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77		
Total BTEX	<0.300	0.300	07/28/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	07/30/2023	ND	400	100	400	11.3	

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	10.9	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 92.9 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 12 (0-3") (H233959-12)

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	07/28/2023	ND	2.02	101	2.00	1.63		
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77		
Total BTEX	<0.300	0.300	07/28/2023	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	336	16.0	07/30/2023	ND	400	100	400	11.3		

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 13 (0-3") (H233959-13)

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	07/28/2023	ND	2.02	101	2.00	1.63		
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77		
Total BTEX	<0.300	0.300	07/28/2023	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	96.0	16.0	07/30/2023	ND	400	100	400	11.3		

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 14 (0-3") (H233959-14)

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	07/28/2023	ND	2.02	101	2.00	1.63		
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77		
Total BTEX	<0.300	0.300	07/28/2023	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	592	16.0	07/30/2023	ND	400	100	400	11.3		

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	37.6	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 15 (0-3") (H233959-15)

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	07/28/2023	ND	2.02	101	2.00	1.63		
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77		
Total BTEX	<0.300	0.300	07/28/2023	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	192	16.0	07/30/2023	ND	400	100	400	11.3		

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	31.9	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 16 (0-3") (H233959-16)

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	07/28/2023	ND	2.02	101	2.00	1.63		
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77		
Total BTEx	<0.300	0.300	07/28/2023	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	704	16.0	07/30/2023	ND	400	100	400	11.3		

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 85.9 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 17 (0-3") (H233959-17)

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	07/28/2023	ND	2.02	101	2.00	1.63		
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77		
Total BTEX	<0.300	0.300	07/28/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	07/30/2023	ND	400	100	400	11.3		

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 73.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.0 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 18 (0-3") (H233959-18)

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	07/28/2023	ND	2.02	101	2.00	1.63		
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77		
Total BTEX	<0.300	0.300	07/28/2023	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	208	16.0	07/30/2023	ND	400	100	400	11.3		

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 19 (0-3") (H233959-19)

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	07/28/2023	ND	2.02	101	2.00	1.63		
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77		
Total BTEx	<0.300	0.300	07/28/2023	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	752	16.0	07/28/2023	ND	400	100	400	11.3		

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	19.7	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 20 (0-3") (H233959-20)

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	07/28/2023	ND	2.02	101	2.00	1.63		
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77		
Total BTEX	<0.300	0.300	07/28/2023	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	992	16.0	07/28/2023	ND	400	100	400	11.3		

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 90.8 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 21 (0-3") (H233959-21)

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	07/28/2023	ND	2.02	101	2.00	1.63		
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77		
Total BTEX	<0.300	0.300	07/28/2023	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	656	16.0	07/28/2023	ND	400	100	400	11.3		

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 22 (0-3") (H233959-22)

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	07/28/2023	ND	2.02	101	2.00	1.63		
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77		
Total BTEX	<0.300	0.300	07/28/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	07/28/2023	ND	400	100	400	11.3		

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 23 (0-3") (H233959-23)

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	07/28/2023	ND	2.02	101	2.00	1.63		
Toluene*	<0.050	0.050	07/28/2023	ND	1.97	98.4	2.00	3.75		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.32	105	6.00	5.77		
Total BTEx	<0.300	0.300	07/28/2023	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	944	16.0	07/28/2023	ND	400	100	400	11.3		

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	07/28/2023	ND	185	92.7	200	0.108	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	194	97.1	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 24 (0-3") (H233959-24)

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	07/28/2023	ND	1.96	98.1	2.00	0.339		
Toluene*	<0.050	0.050	07/28/2023	ND	1.91	95.4	2.00	1.18		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	1.97	98.5	2.00	0.535		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	5.86	97.7	6.00	0.538		
Total BTEX	<0.300	0.300	07/28/2023	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	560	16.0	07/28/2023	ND	400	100	400	11.3		

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	07/29/2023	ND	184	92.2	200	3.25	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	188	94.2	200	5.96	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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 MIDLAND TX, 79701
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Received:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 25 (0-3") (H233959-25)

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	07/28/2023	ND	1.96	98.1	2.00	0.339		
Toluene*	<0.050	0.050	07/28/2023	ND	1.91	95.4	2.00	1.18		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	1.97	98.5	2.00	0.535		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	5.86	97.7	6.00	0.538		
Total BTEX	<0.300	0.300	07/28/2023	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	160	16.0	07/28/2023	ND	400	100	400	11.3		

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	07/29/2023	ND	184	92.2	200	3.25	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	188	94.2	200	5.96	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 26 (0-3") (H233959-26)

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	07/28/2023	ND	1.96	98.1	2.00	0.339		
Toluene*	<0.050	0.050	07/28/2023	ND	1.91	95.4	2.00	1.18		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	1.97	98.5	2.00	0.535		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	5.86	97.7	6.00	0.538		
Total BTEX	<0.300	0.300	07/28/2023	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	672	16.0	07/28/2023	ND	400	100	400	11.3		

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	07/29/2023	ND	184	92.2	200	3.25	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	188	94.2	200	5.96	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane 71.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.2 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 27 (0-3") (H233959-27)

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	07/28/2023	ND	1.96	98.1	2.00	0.339		
Toluene*	<0.050	0.050	07/28/2023	ND	1.91	95.4	2.00	1.18		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	1.97	98.5	2.00	0.535		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	5.86	97.7	6.00	0.538		
Total BTEX	<0.300	0.300	07/28/2023	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	400	16.0	07/28/2023	ND	400	100	400	11.3		

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	07/29/2023	ND	184	92.2	200	3.25	
DRO >C10-C28*	21.4	10.0	07/29/2023	ND	188	94.2	200	5.96	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.2 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 28 (0-3") (H233959-28)

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	07/28/2023	ND	1.96	98.1	2.00	0.339		
Toluene*	<0.050	0.050	07/28/2023	ND	1.91	95.4	2.00	1.18		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	1.97	98.5	2.00	0.535		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	5.86	97.7	6.00	0.538		
Total BTEX	<0.300	0.300	07/28/2023	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	736	16.0	07/28/2023	ND	400	100	400	11.3		

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	07/29/2023	ND	184	92.2	200	3.25	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	188	94.2	200	5.96	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.1 % 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:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 29 (0-3") (H233959-29)

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	07/28/2023	ND	1.96	98.1	2.00	0.339		
Toluene*	<0.050	0.050	07/28/2023	ND	1.91	95.4	2.00	1.18		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	1.97	98.5	2.00	0.535		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	5.86	97.7	6.00	0.538		
Total BTEX	<0.300	0.300	07/28/2023	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	368	16.0	07/28/2023	ND	400	100	400	11.3		

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	07/29/2023	ND	184	92.2	200	3.25	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	188	94.2	200	5.96	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/27/2023	Sampling Date:	07/27/2023
Reported:	07/31/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	Cool & Intact
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 30 (0-3") (H233959-30)

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	07/28/2023	ND	1.96	98.1	2.00	0.339		
Toluene*	<0.050	0.050	07/28/2023	ND	1.91	95.4	2.00	1.18		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	1.97	98.5	2.00	0.535		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	5.86	97.7	6.00	0.538		
Total BTEX	<0.300	0.300	07/28/2023	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	720	16.0	07/28/2023	ND	400	100	400	11.3		

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	07/29/2023	ND	184	92.2	200	3.25	
DRO >C10-C28*	<10.0	10.0	07/29/2023	ND	188	94.2	200	5.96	
EXT DRO >C28-C36	<10.0	10.0	07/29/2023	ND					

Surrogate: 1-Chlorooctane 70.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.9 % 49.1-148

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Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H233959

Page 1 of 3

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 Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-6823	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"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting: Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

Project Name:		Cascade 29 Federal Com 75H (07.22.2023)		Turn Around				ANALYSIS REQUEST																Preservative Codes							
Project Number:		2103		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		Pres. Code																		None: NO DI Water: H ₂ O							
Project Location		Lea County, New Mexico		Due Date:		48hr																		Cool: Cool MeOH: Me							
Sampler's Name:		KB & JR																						HCL: HC HNO ₃ : HN							
PO #:																								H ₂ SO ₄ : H ₂ NaOH: Na							
SAMPLE RECEIPT		Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																		H ₃ PO ₄ : HP					
Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		140																		NaHSO ₄ : NABIS							
Cooler Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor:																				Na ₂ S ₂ O ₃ : NaSO ₃							
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:		3.9°C																		Zn Acetate+NaOH: Zn							
Total Containers:				Corrected Temperature:																				NaOH+Ascorbic Acid: SAPC							
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont																		Sample Comments	
S-1 (0-3")		7/27/2023				X				G		1		X X X																	
S-2 (0-3")		7/27/2023				X				G		1		X X X																	
S-3 (0-3")		7/27/2023				X				G		1		X X X																	
S-4 (0-3")		7/27/2023				X				G		1		X X X																	
S-5 (0-3")		7/27/2023				X				G		1		X X X																	
S-6 (0-3")		7/27/2023				X				G		1		X X X																	
S-7 (0-3")		7/27/2023				X				G		1		X X X																	
S-8 (0-3")		7/27/2023				X				G		1		X X X																	
S-9 (0-3")		7/27/2023				X				G		1		X X X																	
S-10 (0-3")		7/27/2023				X				G		1		X X X																	

Comments:			

Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
						7/27/23 15:40	

Chain of Custody

Work Order No: H233959

Page 2 of 3

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 Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-6823	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"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

Project Name:		Cascade 29 Federal Com 75H (07.22.2023)		Turn Around				ANALYSIS REQUEST																Preservative Codes							
Project Number:		2103		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		Pres. Code																		None: NO DI Water: H ₂ O							
Project Location		Lea County, New Mexico		Due Date:		48hr																		Cool: Cool MeOH: Me							
Sampler's Name:		KB & JR																						HCL: HC HNO ₃ : HN							
PO #:																								H ₂ SO ₄ : H ₂ NaOH: Na							
SAMPLE RECEIPT		Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																		H ₃ PO ₄ : HP					
Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		140																		NaHSO ₄ : NABIS							
Cooler Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor:																				Na ₂ S ₂ O ₃ : NaSO ₃							
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:		3.9 C																		Zn Acetate+NaOH: Zn							
Total Containers:				Corrected Temperature:																				NaOH+Ascorbic Acid: SAPC							
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont																		Sample Comments	
S-11 (0-3")		7/27/2023				X				G		1		X X X																	
S-12 (0-3")		7/27/2023				X				G		1		X X X																	
S-13 (0-3")		7/27/2023				X				G		1		X X X																	
S-14 (0-3")		7/27/2023				X				G		1		X X X																	
S-15 (0-3")		7/27/2023				X				G		1		X X X																	
S-16 (0-3")		7/27/2023				X				G		1		X X X																	
S-17 (0-3")		7/27/2023				X				G		1		X X X																	
S-18 (0-3")		7/27/2023				X				G		1		X X X																	
S-19 (0-3")		7/27/2023				X				G		1		X X X																	
S-20 (0-3")		7/27/2023				X				G		1		X X X																	

Comments:			

Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
						7/27/23 15:40	

Chain of Custody

Work Order No: H233959

Page 3 of 3

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 Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-6823	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"/> <input type="checkbox"/> perfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

Project Name:	Cascade 29 Federal Com 75H (07.22.2023)		Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes				
Project Number:	2103		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush			Parameters	<div style="display: flex; justify-content: space-between;"> <div>BTEX 8021B</div> <div>TPH 8015M (GRO + DRO + MRO)</div> <div>Chloride 4500.0</div> </div>																None: NO DI Water: H ₂ O			
Project Location:	Lea County, New Mexico		Due Date:																				48hr		Cool: Cool MeOH: Me	
Sampler's Name:	KB & JR																								HCL: HC HNO ₃ : HN	
PO #:																						H ₂ S0 ₄ : H ₂ NaOH: Na				
SAMPLE RECEIPT			Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																	H ₃ PO ₄ : HP			
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		140																		NaHSO ₄ : NABIS			
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor:																				Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:		3.9°C																		Zn Acetate+NaOH: Zn			
Total Containers:			Corrected Temperature:																				NaOH+Ascorbic Acid: SAPC			
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont																	Sample Comments			
S-21 (0-3")	7/27/2023		X		G	1	X	X	X																	
S-22 (0-3")	7/27/2023		X		G	1	X	X	X																	
S-23 (0-3")	7/27/2023		X		G	1	X	X	X																	
S-24 (0-3")	7/27/2023		X		G	1	X	X	X																	
S-25 (0-3")	7/27/2023		X		G	1	X	X	X																	
S-26 (0-3")	7/27/2023		X		G	1	X	X	X																	
S-27 (0-3")	7/27/2023		X		G	1	X	X	X																	
S-28 (0-3")	7/27/2023		X		G	1	X	X	X																	
S-29 (0-3")	7/27/2023		X		G	1	X	X	X																	
S-30 (0-3")	7/27/2023		X		G	1	X	X	X																	

Comments:			

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			7/27/23
			15:40



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

August 01, 2023

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

RE: CASCADE 29 FEDERAL COM 75 H (07.22.2023)

Enclosed are the results of analyses for samples received by the laboratory on 07/28/23 12:15.

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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

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:	07/28/2023	Sampling Date:	07/28/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	** (See Notes)
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 31 (0-3") (H233982-01)

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	07/31/2023	ND	2.31	116	2.00	0.00861	
Toluene*	<0.050	0.050	07/31/2023	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.14	107	2.00	0.699	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	07/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	704	16.0	07/31/2023	ND	432	108	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	07/31/2023	ND	190	95.0	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	198	99.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 64.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.2 % 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:	07/28/2023	Sampling Date:	07/28/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	** (See Notes)
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 32 (0-3") (H233982-02)

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	07/31/2023	ND	2.31	116	2.00	0.00861	
Toluene*	<0.050	0.050	07/31/2023	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.14	107	2.00	0.699	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	07/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	192	16.0	07/31/2023	ND	432	108	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	07/31/2023	ND	190	95.0	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	198	99.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 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:	07/28/2023	Sampling Date:	07/28/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	** (See Notes)
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 33 (0-3") (H233982-03)

BTX 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	07/31/2023	ND	2.31	116	2.00	0.00861	
Toluene*	<0.050	0.050	07/31/2023	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.14	107	2.00	0.699	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.39	106	6.00	2.03	
Total BTX	<0.300	0.300	07/31/2023	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	400	16.0	07/31/2023	ND	432	108	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	07/31/2023	ND	190	95.0	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	198	99.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 71.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/28/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	** (See Notes)
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 34 (0-3") (H233982-04)

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	07/31/2023	ND	2.31	116	2.00	0.00861	
Toluene*	<0.050	0.050	07/31/2023	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.14	107	2.00	0.699	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	07/31/2023	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	592	16.0	07/31/2023	ND	432	108	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	07/31/2023	ND	190	95.0	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	198	99.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/28/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	** (See Notes)
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 35 (0-3") (H233982-05)

BTX 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	07/31/2023	ND	2.31	116	2.00	0.00861	
Toluene*	<0.050	0.050	07/31/2023	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.14	107	2.00	0.699	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.39	106	6.00	2.03	
Total BTX	<0.300	0.300	07/31/2023	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	1170	16.0	07/31/2023	ND	432	108	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	07/31/2023	ND	190	95.0	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	198	99.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 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:	07/28/2023	Sampling Date:	07/28/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	** (See Notes)
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 36 (0-3") (H233982-06)

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	07/31/2023	ND	2.31	116	2.00	0.00861	
Toluene*	<0.050	0.050	07/31/2023	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.14	107	2.00	0.699	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	07/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	1040	16.0	07/31/2023	ND	432	108	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	07/31/2023	ND	190	95.0	200	3.64	
DRO >C10-C28*	76.9	10.0	07/31/2023	ND	198	99.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/28/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	** (See Notes)
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 37 (0-3") (H233982-07)

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	07/31/2023	ND	2.31	116	2.00	0.00861	
Toluene*	<0.050	0.050	07/31/2023	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.14	107	2.00	0.699	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	07/31/2023	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	432	16.0	07/31/2023	ND	432	108	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	07/31/2023	ND	190	95.0	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	198	99.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/28/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	** (See Notes)
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 38 (0-3") (H233982-08)

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	07/31/2023	ND	2.31	116	2.00	0.00861	
Toluene*	<0.050	0.050	07/31/2023	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.14	107	2.00	0.699	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	07/31/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	07/31/2023	ND	432	108	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	07/31/2023	ND	190	95.0	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	198	99.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 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:	07/28/2023	Sampling Date:	07/28/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	** (See Notes)
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 39 (0-3") (H233982-09)

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	07/31/2023	ND	2.31	116	2.00	0.00861	
Toluene*	<0.050	0.050	07/31/2023	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.14	107	2.00	0.699	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	07/31/2023	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	896	16.0	07/31/2023	ND	432	108	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	07/31/2023	ND	190	95.0	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	198	99.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 75.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.5 % 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:	07/28/2023	Sampling Date:	07/28/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	** (See Notes)
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 40 (0-3") (H233982-10)

BTX 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	07/31/2023	ND	2.31	116	2.00	0.00861	
Toluene*	<0.050	0.050	07/31/2023	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.14	107	2.00	0.699	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.39	106	6.00	2.03	
Total BTX	<0.300	0.300	07/31/2023	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	576	16.0	07/31/2023	ND	432	108	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	07/31/2023	ND	190	95.0	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	198	99.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 49.1-148

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Analytical Results For:

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

Received:	07/28/2023	Sampling Date:	07/28/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	** (See Notes)
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 41 (0-3") (H233982-11)

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	07/31/2023	ND	2.31	116	2.00	0.00861	
Toluene*	<0.050	0.050	07/31/2023	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.14	107	2.00	0.699	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	07/31/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	07/31/2023	ND	432	108	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	07/31/2023	ND	190	95.0	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	198	99.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 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:	07/28/2023	Sampling Date:	07/28/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	** (See Notes)
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 42 (0-3") (H233982-12)

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	07/31/2023	ND	2.31	116	2.00	0.00861	
Toluene*	<0.050	0.050	07/31/2023	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.14	107	2.00	0.699	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	07/31/2023	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	832	16.0	07/31/2023	ND	432	108	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	07/31/2023	ND	190	95.0	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	198	99.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 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:	07/28/2023	Sampling Date:	07/28/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	** (See Notes)
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 43 (0-3") (H233982-13)

BTX 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	07/31/2023	ND	2.31	116	2.00	0.00861	
Toluene*	<0.050	0.050	07/31/2023	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.14	107	2.00	0.699	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.39	106	6.00	2.03	
Total BTX	<0.300	0.300	07/31/2023	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	1420	16.0	07/31/2023	ND	432	108	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	07/31/2023	ND	190	95.0	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	198	99.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 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:	07/28/2023	Sampling Date:	07/28/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	** (See Notes)
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 44 (0-3") (H233982-14)

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	07/31/2023	ND	2.31	116	2.00	0.00861	
Toluene*	<0.050	0.050	07/31/2023	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.14	107	2.00	0.699	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	07/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	1220	16.0	07/31/2023	ND	432	108	400	3.77	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	07/31/2023	ND	190	95.0	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	198	99.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 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:	07/28/2023	Sampling Date:	07/28/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	** (See Notes)
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 45 (0-3") (H233982-15)

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	07/31/2023	ND	2.31	116	2.00	0.00861	
Toluene*	<0.050	0.050	07/31/2023	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.14	107	2.00	0.699	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	07/31/2023	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	1810	16.0	07/31/2023	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	07/31/2023	ND	190	95.0	200	3.64	
DRO >C10-C28*	<10.0	10.0	07/31/2023	ND	198	99.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 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:	07/28/2023	Sampling Date:	07/28/2023
Reported:	08/01/2023	Sampling Type:	Soil
Project Name:	CASCADE 29 FEDERAL COM 75 H (07.22	Sampling Condition:	** (See Notes)
Project Number:	2103	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO NM		

Sample ID: S - 46 (0-3") (H233982-16)

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	07/31/2023	ND	2.31	116	2.00	0.00861	
Toluene*	<0.050	0.050	07/31/2023	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	07/31/2023	ND	2.14	107	2.00	0.699	
Total Xylenes*	<0.150	0.150	07/31/2023	ND	6.39	106	6.00	2.03	
Total BTEX	<0.300	0.300	07/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	1880	16.0	07/31/2023	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	07/31/2023	ND	190	95.0	200	3.64	
DRO >C10-C28*	25.7	10.0	07/31/2023	ND	198	99.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	07/31/2023	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

Cardinal Laboratories

*=Accredited Analyte

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

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

Celey D. Keene, Lab Director/Quality Manager

Work Order No: H233982

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Chain of Custody

Work Order No: H233982

Page 2 of 2

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 Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-6823	Email:	<u>laci.luig@coterra.com Ashton.Thielke@coterra.com</u>

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

Project Name:		Cascade 29 Federal Com 75H (07.22.2023)		Turn Around				ANALYSIS REQUEST												Preservative Codes							
Project Number:		2103		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		Pres. Code														None: NO DI Water: H ₂ O							
Project Location		Lea County, New Mexico		Due Date:		48hr														Cool: Cool MeOH: Me							
Sampler's Name:		KB & JR																		HCL: HC HNO ₃ : HN							
PO #:																				H ₂ SO ₄ : H ₂ NaOH: Na							
SAMPLE RECEIPT		Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														H ₃ PO ₄ : HP					
Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		140														NaHSO ₄ : NABIS							
Cooler Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor:																Na ₂ S ₂ O ₃ : NaSO ₃							
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:		37°C														Zn Acetate+NaOH: Zn							
Total Containers:				Corrected Temperature:																NaOH+Ascorbic Acid: SAPC							
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont														Sample Comments	
S-41 (0-3")		7/28/2023				X				G		1		X X X													
S-42 (0-3")		7/28/2023				X				G		1		X X X													
S-43 (0-3")		7/28/2023				X				G		1		X X X													
S-44 (0-3")		7/28/2023				X				G		1		X X X													
S-45 (0-3")		7/28/2023				X				G		1		X X X													
S-46 (0-3")		7/28/2023				X				G		1		X X X													

Comments:

Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
						7/28/23 12:15	

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APPENDIX F

CARMONA RESOURCES



Wash out

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

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

CONDITIONS

Action 247413

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 247413
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	11/2/2023