

## SITE INFORMATION

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

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

# CARMONA RESOURCES

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

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

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



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June 16, 2023

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

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

Mr. Bratcher:

On behalf of Cimarex Energy Co. (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for the Hornsby 35 Federal Com #003H. The site is located at 32.0005684°, -104.1651154° within Unit E, S35, T26S, R27E, in Eddy County, New Mexico (Figures 1 and 2).

## **1.0 Site Information and Background**

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on July 26, 2015, caused by an over pressured poly line that failed. It resulted in approximately fifty-nine (59) barrels of produced water, and fifty-five (55) barrels of produced water were recovered. The impacted area is located on the pad. Refer to Figure 3 for a spill overview. The initial C-141 form is attached in Appendix C.

## **2.0 Site Characterization and Groundwater**

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest identified well is approximately 1.64 miles Northwest of the site in S22, T26S, R27E and was drilled in 2002. The well has a reported depth to groundwater of 50' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

## **3.0 NMAC Regulatory Criteria**

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg.

## **4.0 Site Assessment Activities**

On April 4, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, six (6) soil samples and five (5) horizontal sample points were advanced to depths ranging from the surface to 2.0' below ground surface (bgs) inside the area of



concern. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. Refer to Table 1.

## **5.0 Remediation Activities**

Between May 15, 2023, and May 17, 2023, Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on May 11, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 was excavated to a depth of 1.5' bgs. The area of S-3 was excavated to a depth of 2.0' bgs. A total of six (6) confirmation floor samples (CS-1 through CS-6) and eight (8) sidewall samples (SW-1 through SW-8) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA Method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 65 cubic yards of material were excavated and transported offsite for proper disposal.

## 6.0 Conclusions

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

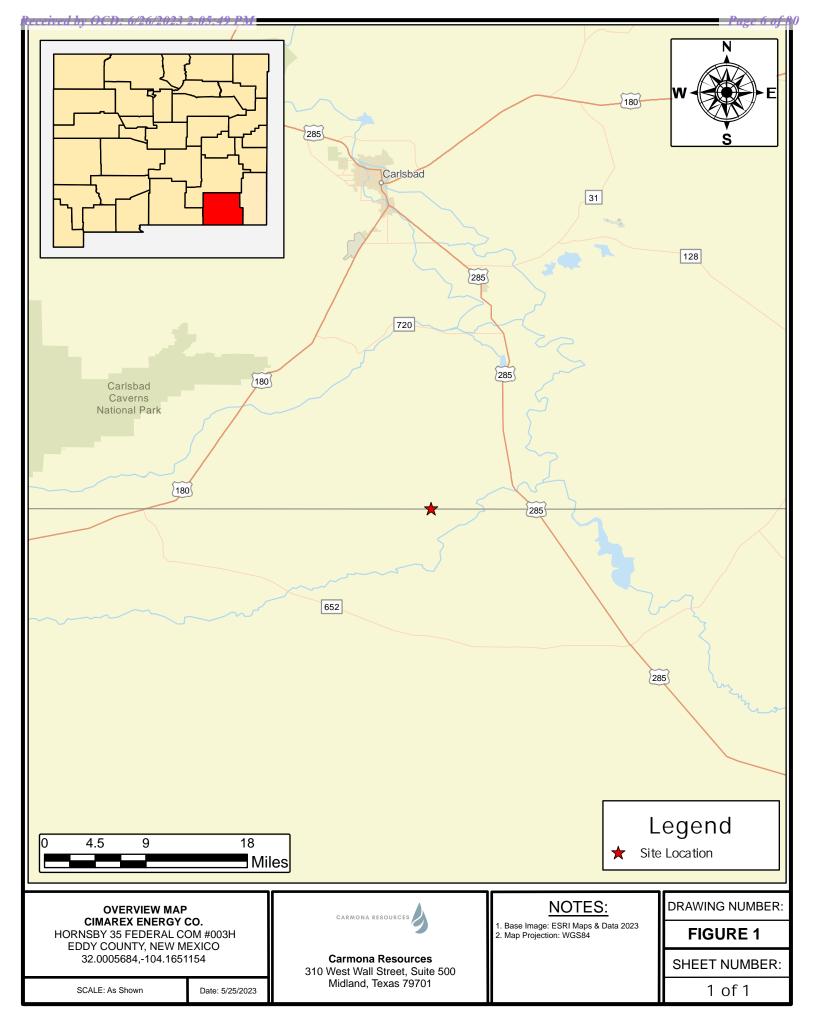
**Carmona Resources, LLC** 

Ashton Thielke Sr. Project Manager

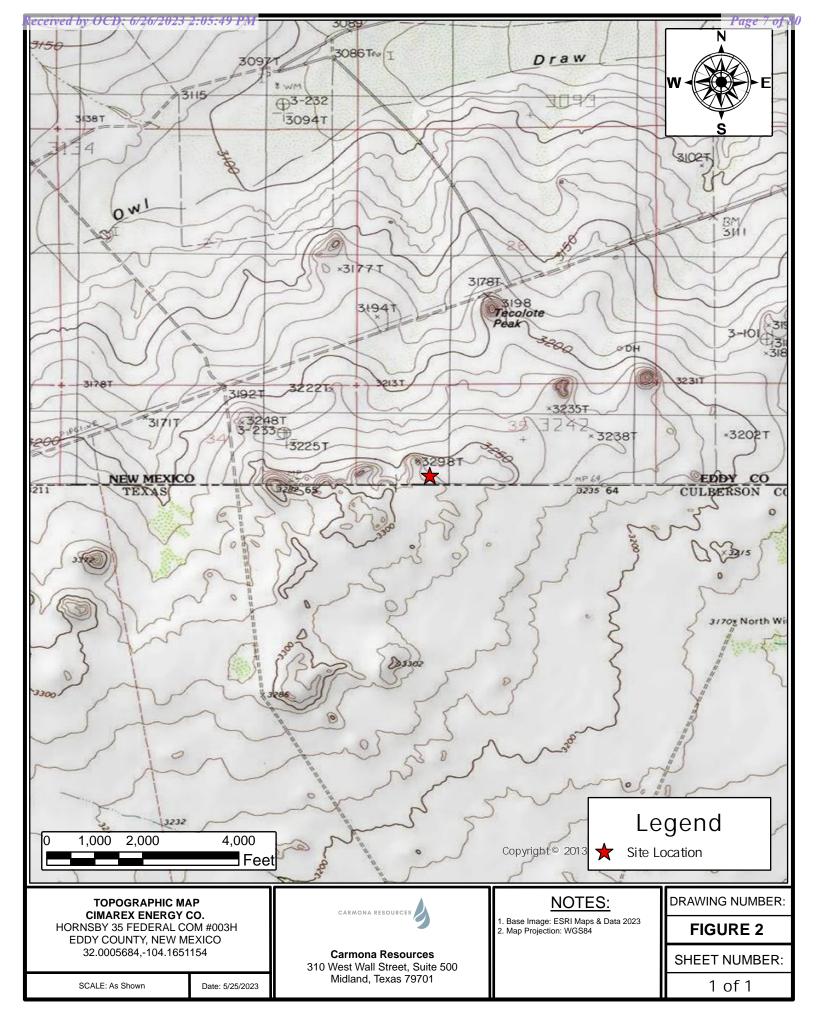
Conner Moehring Sr. Project Manager



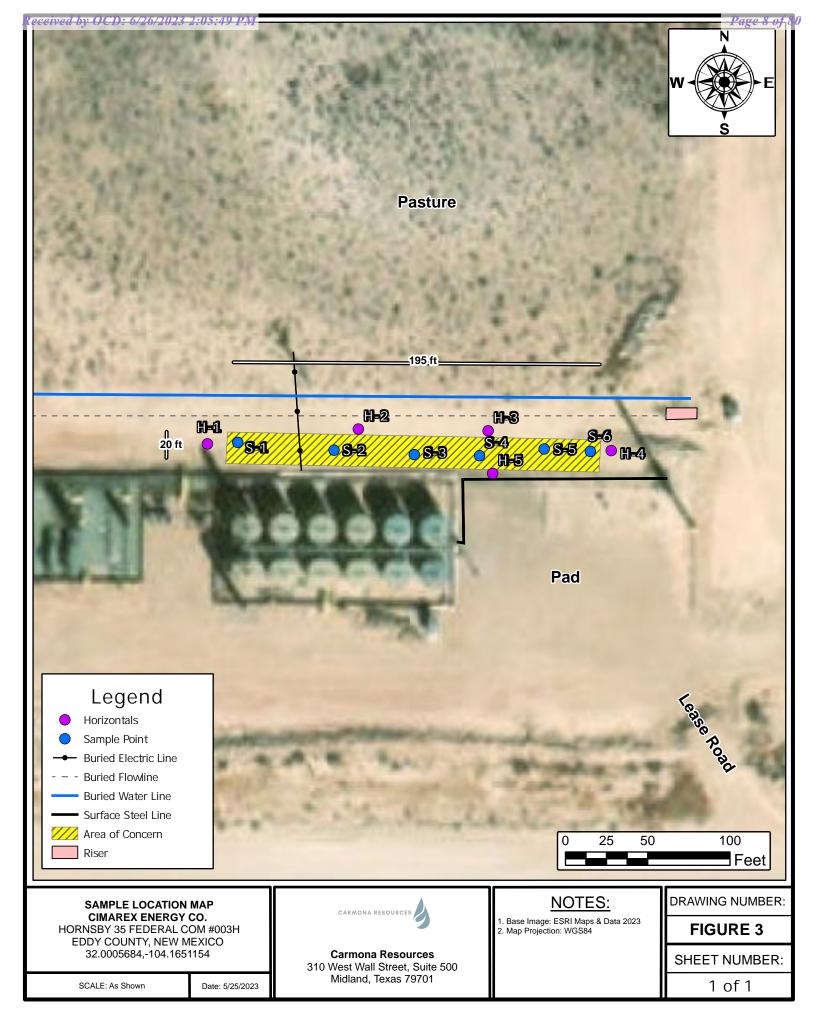




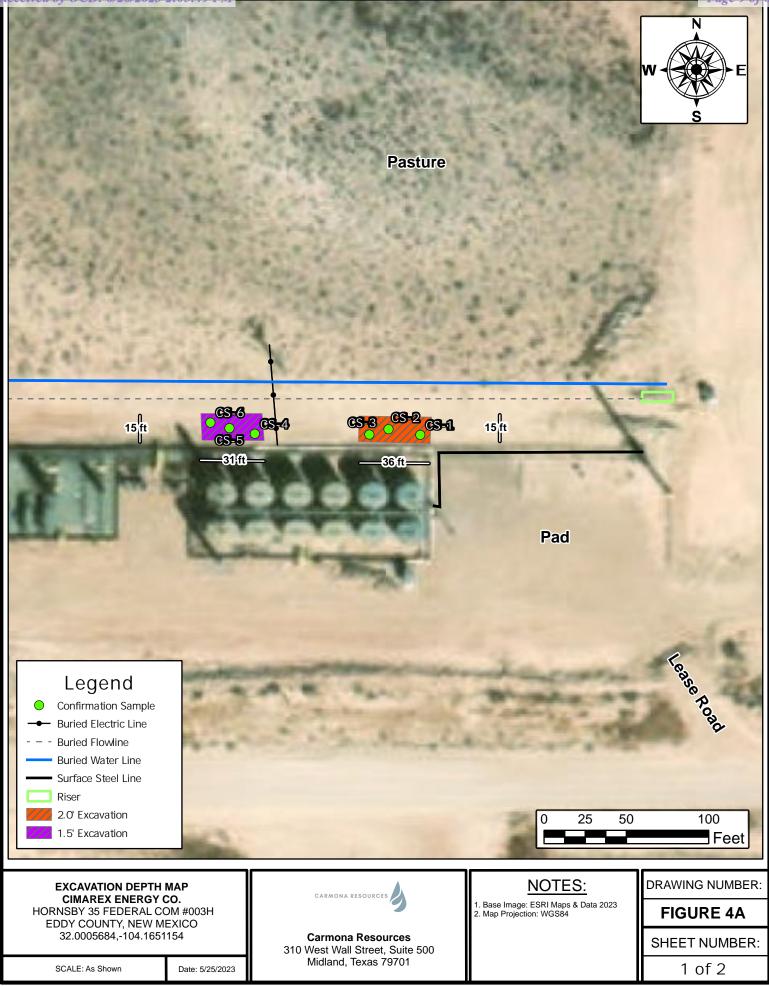
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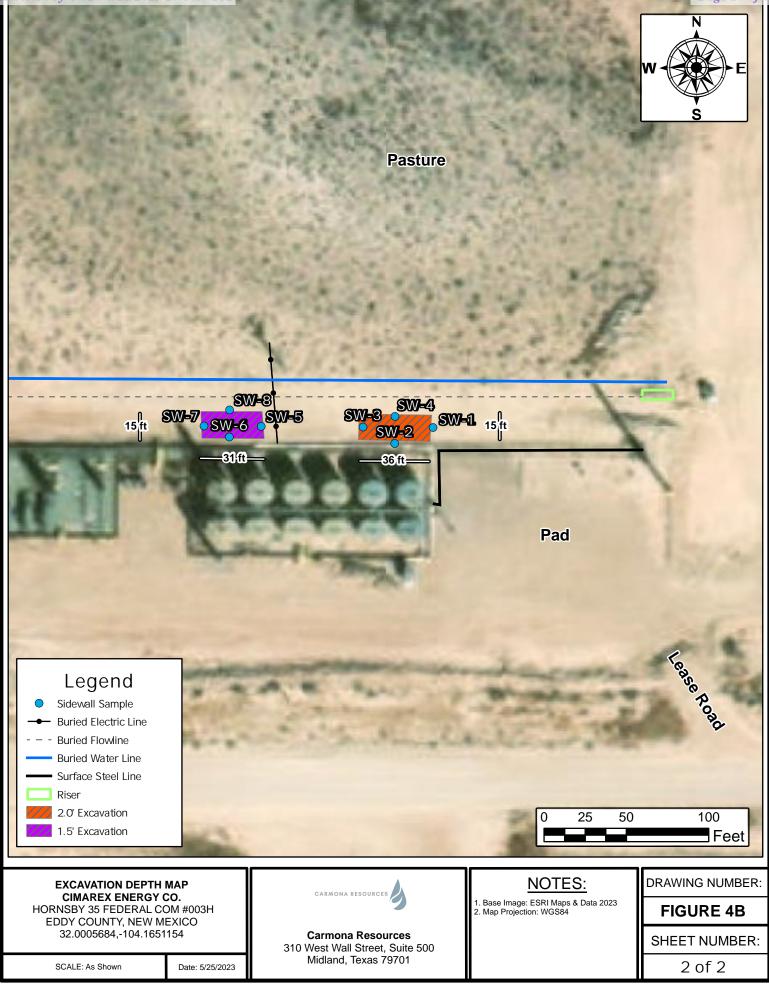


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# **APPENDIX** A



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

					,	Junity, New M						
Sample ID	Date	Depth (ft)		TPF	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
			GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,540
S-1		0.5-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	640
	"	1.0-1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	304
S-2	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
5-2	"	0.5-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	912
S-3	"	0.5-1.0	<10.0	44.4	<10.0	44.4	<0.050	<0.050	<0.050	<0.150	<0.300	1,460
3-3	"	1.0-1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	880
	"	1.5-2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	400
S-4	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
3-4	"	0.5-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
S-5	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
3-5	"	0.5-1.0	<10.0	15.2	<10.0	15.2	<0.050	<0.050	<0.050	<0.150	<0.300	320
S-6	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
3-0	"	0.5-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
H-1	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
H-2	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
H-3	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
H-4	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
H-5	4/4/2023	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
	ory Criteria <sup>A</sup>					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
(-) No	ot Analyzed											

(-) Not Analyzed <sup>A</sup> – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram TPH - Total Petroleum Hydrocarbons ft - feet (S) Soil Sample

(H) Horizontal Sample

Removed

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

					•	•						
Sample ID	Date	Depth (ft)		TPF	l (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
			GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
CS-1	5/16/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	464
CS-2	5/16/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
CS-3	5/16/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	384
CS-4	5/16/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	544
CS-5	5/16/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
CS-6	5/16/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
SW-1	5/16/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368
SW-2	5/16/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	608
011-2	5/17/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
SW-3	5/16/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
SW-4	5/16/2023	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-5	5/16/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	544
SW-6	5/16/2023	1.5	<10.0	11.5	<10.0	11.5	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-7	5/16/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368
SW-8	5/16/2023	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	576
Regulato	ory Criteria <sup>A</sup>					100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
(-) No	t Analyzed											

(-) Not Analyzed A – Table 1 - 19.15.29 NMAC mg/kg - milligram per kilogram TPH - Total Petroleum Hydrocarbons ft - feet (CS) Confirmation Floor Sample (CM) Oldente Document

(SW) Sidewall Sample

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# **APPENDIX B**



# PHOTOGRAPHIC LOG

# Cimarex Energy Co.

Dhe		<b> </b>		A
Pho	togr	apn	NO.	1

 Facility:
 Hornsby 35 Federal Com #003H

County: Eddy County, New Mexico

## **Description:**

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



## Photograph No. 2

Facility: Hornsby 35 Federal Com #003H

County: Eddy County, New Mexico

## **Description:**

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



# Photograph No. 3

Facility: Hornsby 35 Federal Com #003H

County: Eddy County, New Mexico

**Description:** View Southeast, area of CS-4 through CS-6.



# **APPENDIX C**



District I 1625 N. French District II	, .		State of Energy Minerals			New Mex and Natura			Form C-141 Revised August 8, 2011		
811 S. First St., <u>District III</u> 1000 Rio Brazo <u>District IV</u> 1220 S. St. Fran	8 Road, Azteo	c, NM 87410	Oil Conse 1220 Sout			St. Franc	is Dr.	Submit 1 Cor	by to appropriate District Office in accordance with 19.15.29 NMAC.		
				ease Notific		e, NM 875			<u> </u>		
NABI	53014	0815	Nen		anvi	OPERA'			tial Report 🔲 Final Report		
Name of Co	mpany C	imarex Ener		a15099			ristine Alderma				
		nfeld Ste 60		d TX			No. 432-853-70	59			
		by 35 Fed 3	H				e production				
Surface Ow	ner Feder	al		Mineral C	Owner	<u> </u>		API N	0. 30-015-42208		
	<b>T</b>		r <del>-</del>			N OF RE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West Line	County		
E	35	265	27E	210		S	1310	W	Eddy		
				Latitude_32.00	005684 <u>-</u>	_Longitude	104.1651154	_			
				NAT	URE	OF REL	EASE				
Type of Rele							Release 59 bbls		Recovered 55 bbls		
Source of Re	elease 4" po	bly flow line				Date and F	lour of Occurrenc	e Date an 7/26/15	d Hour of Discovery		
Was Immedi	ate Notice (					If YES, To Whom?					
By Whom?	Christine A			No Not Re	equirea	Date and F		7/ <u>15</u> 1:33 pm			
Was a Water		ched?					olume Impacting				
			Yes 🗵						NM.OU.		
If a Waterco	urse was Im	pacted, Descr	ibe Fully.	*			-	,	NM.OIL CONSERVATIO		
NA									OCT 27 2015		
Poly line rup	tured due to	em and Reme pressure. 45 were recover	bbls were	n Taken.* e contained within	a lined	containment	and were recover	ed. 14 bbls were	on location pad just Liked of		
		and Cleanup ag company (I		ken.* 1) will be on locati	ion to sa	imple and dev	velop work plan.				
regulations a public health should their or the enviro	II operators or the envi operations homent. In a	are required t ronment. The nave failed to	o report a acceptan adequately DCD accept	nd/or file certain r ce of a C-141 repo y investigate and r	release n ort by th remediat	otifications a e NMOCD n e contaminat	nd perform correct barked as "Final R ion that pose a thr	ctive actions for r teport" does not r cat to ground wa	rsuant to NMOCD rules and eleases which may endanger elieve the operator of liability ter, surface water, human health compliance with any other		
							OIL CON	SERVATIO	<u>N DIVISION</u>		
Signature:				·		Approved by	v Environmental S	pecialist:			
Printed Nam Title: ESH 5		e Alderman				Approval Da	ite: 10/28/	5 Expiratio	n Date: NIA		
		man@cimare>	com				tion per O.C. REMEDIATIO	D. Rules & Gu			
	30/15			32-853-7059		SUBMIT		20115			
Attach Add	itional She	ets If Neces	sary						2RP-3359		

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Oil Conservation Division

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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?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗌 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)?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗌 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?	🗌 Yes 🗌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗌 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗌 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🗌 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 1/2-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.

Received by OCD: 6/26/2023 2:05:49 PM Form C-141 State of New Mexico			Page 19 of		
			Incident ID		
Page 4	Oil Conservation Division		District RP		
			Facility ID		
			Application ID		
regulations all operators are requir public health or the environment. failed to adequately investigate an addition, OCD acceptance of a C- and/or regulations. Printed Name:	on given above is true and complete to the b red to report and/or file certain release notif The acceptance of a C-141 report by the O d remediate contamination that pose a three 141 report does not relieve the operator of p	fications and perform co OCD does not relieve the at to groundwater, surfa responsibility for compl Title: Date:	prective actions for rele operator of liability sho ce water, human health iance with any other feo	ases which may endanger ould their operations have or the environment. In deral, state, or local laws	
OCD Only					
Received by:		Date:			

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Oil Conservation Division

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.

<b><u>Closure Report Attachment Checklist</u></b> : Each of the following it	tems must be included in the closure report.					
A scaled site and sampling diagram as described in 19.15.29.1	1 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	Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)					
Description of remediation activities						
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the co- accordance with 19.15.29.13 NMAC including notification to the O	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.					
	Title:					
Signature: <u>AC</u>	Date:					
email:	Telephone:					
OCD Only						
Received by:	Date:					
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.						
Closure Approved by: Hall	Date: <u>8/4/2023</u>					
Printed Name: Brittany Hall	Title: Environmental Specialist					

# **Ashton Thielke**

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

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

Ashton,

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

JH

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



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

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

Good afternoon,

This new email serves as 48+ hour notification for confirmation sampling on the HORNSBY 35 FEDERAL COM #003H. Sampling is scheduled to begin as early as 11:00am (MST) Monday, May 15<sup>th</sup>, weather and soil conditions permitting. Carmona Resources will be on site to collect the confirmation samples. Incident ID: NAB1530140875 Coordinates: 32.000470, -104.163724

Thank you,



## Ashton Thielke | PBU - Environmental Consultant

T: 432.813.8988 | M: 281.753.5659 | <u>ashton.thielke@coterra.com</u> | <u>www.coterra.com</u> Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

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**



ALL ADDINGS AND

Cimarex Energy

27.55 - Drilled 2003

41.39' - Drilled 2013 - Drilled 2002

Comments.

Com #003H

Released to Imaging: 8/4/2023 8:45:16 AM

# Legend 0.50 Mile Radius1.64 Miles1.69 Miles1.77 MilesHornsby 35 Federal Com #003HNMSEO Water WellUSGS Water Well



1 mi

Hornsby 35 Federal Com #003H

GReleased to Imaging: 8/4/2023 8:45:16 AM

# Legend

🯉 High





Hornsby 35 Federal Com #003H
 Medium





(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)	. (0	•				2=NE 3 st to lar	3=SW 4= ·gest)	,	33 UTM in me	eters)	(	In feet)	
POD Number	POD Sub- Code basin C	County		Q ( 16 4	•	c Tws	Rng		x	Y	Distance	-		Water Column
C 02930	С	ED				2 26S		57793	38 3	543284* 🌍	2706	100	50	50
<u>C 02476</u>	CUB	ED		4	1 24	1 26S	27E	58065	53 38	544032* 🌍	3640	150		
										Avera	ge Depth to	Water:	50	feet
											Minimum	Depth:	50	feet
											Maximum	Depth:	50	feet
Record Count: 2														

UTMNAD83 Radius Search (in meters):

Easting (X): 578994

Northing (Y): 3540792

Radius: 4000

\*UTM location was derived from PLSS - see Help

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

Water-level date-time accuracy Parameter feet below land surface	level, feet above specific vertical datum	vertical datum
--	--	-------------------

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

Important: <u>Next Generation Monitoring Location Page</u>

## Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 320124104110601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 320124104110601 26S.27E.22.43242

Eddy County, New Mexico Latitude 32°01'21.8", Longitude 104°10'24.4" NAD83 Land-surface elevation 3,095 feet above NGVD29 The depth of the well is 56 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Castile Formation (312CSTL) local aquifer.

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 measu
1987-10-13		D	62610		3082.58	NGVD29	Р	S		
1987-10-13		D	62611		3084.21	NAVD88	Р	S		
1987-10-13		D	72019	12.42			Р	S		
1992-11-04		D	62610		3076.22	NGVD29	1	S	USGS	
1992-11-04		D	62611		3077.85	NAVD88	1	S	USGS	
1992-11-04		D	72019	18.78			1	S	USGS	
1992-11-18		D	62610		3076.52	NGVD29	1	S	USGS	
1992-11-18		D	62611		3078.15	NAVD88	1	S	USGS	
1992-11-18		D	72019	18.48			1	S	USGS	
1998-01-13		D	62610		3070.48	NGVD29	1	S	USGS	
1998-01-13		D	62611		3072.11	NAVD88	1	S	USGS	
1998-01-13		D	72019	24.52			1	S	USGS	
2003-01-29		D	62610		3064.65	NGVD29	1	S	USGS	
2003-01-29		D	62611		3066.28	NAVD88	1	S	USGS	

## Received by QGD: 6/26/2023 2:05:49 PM

USGS Groundwater for New Mexico: Water Levels -- 1 sites

Page 28 of 80

Date 1	ïme	? Water-level date-time accuracy	? Para code	ameter e	Water level, feet below land surface	Water level, feet above specific vertical datum	ve	ferenced rtical tum	? S
2003-01-29	D	72019	30.35			1	S	USGS	
2013-01-09 21:20 UTC	m	62610		3053.61	NGVD29	Р	S	USGS	
2013-01-09 21:20 UTC	m	62611		3055.24	NAVD88	Р	S	USGS	
2013-01-09 21:20 UTC	m	72019	41.39			Р	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	Р	Pumping
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

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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: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2023-04-03 10:57:31 EDT 0.28 0.25 nadww01 USA.gov

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# New Mexico Office of the State Engineer **Point of Diversion Summary**

			· •	s are 1=N ers are sma				(NIA D92 II	TM in meters)	
Well Tag	POD	Number	`*	)16 Q4		0 /		(NAD85 U X	Y Y	
	-	2930	2	3 4	22	26S	27E	577938	3543284* 🌍	
x Driller Lice	ense:	1227	Driller (	Compan	ıy:	В&	H DRII	LLING		
Driller Naı	ne:									
Drill Start	Date:	09/06/2002	Drill Fir	nish Dat	te:	0	9/12/200	2 Plu	ug Date:	
Log File Date: 12/19/2002			PCW R	PCW Rcv Date:					urce:	Shallow
Pump Type	e:		Pipe Dis	Pipe Discharge Size:					timated Yield:	120 GPM
Casing Size	e:	6.00	Depth W	Depth Well:				De	Depth Water:	
x	Wate	er Bearing Stratif	ications:	То	op I	Bottom	Descr	iption		
				4	50	62	Sands	tone/Grave	/Conglomerate	
				8	30	100	Limes	stone/Dolon	nite/Chalk	
X		Casing Per	forations:	Та	op I	Bottom	l			
				4	50	100	)			

#### \*UTM location was derived from PLSS - see Help

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

4/3/23 8:53 AM

POINT OF DIVERSION SUMMARY

Received by QCD: 6/26/2023 2:05:49 PM

USGS Home Contact USGS Search USGS



National Water Information System: Web Interface

**USGS** Water Resources

Data Category:		Geographic Area:		
Groundwater	~	New Mexico	~	GO

Click to hideNews Bulletins

- Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

Important: <u>Next Generation Monitoring Location Page</u>

## Search Results -- 1 sites found

Agency code = usgs

site\_no list = • 320134104094801

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 320134104094801 26S.27E.23.321431

Eddy County, New Mexico Latitude 32°01'34", Longitude 104°09'48" NAD27 Land-surface elevation 3,065 feet above NGVD29 This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Bell Canyon Formation (313BLCN) local aquifer.

**Output formats** 

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
1992-11-04		D	62610		3045.35	NGVD29	1	S	5	
1992-11-04		D	62611		3046.97	NAVD88	1	5	5	
1992-11-04		D	72019	19.65			1	S	5	
1998-01-13		D	62610		3039.38	NGVD29	1	5	5	
1998-01-13		D	62611		3041.00	NAVD88	1	S	5	
1998-01-13		D	72019	25.62			1	5	5	
2003-01-29		D	62610		3037.45	NGVD29	1	S	S USG	S
2003-01-29		D	62611		3039.07	NAVD88	1	S	S USG	S
2003-01-29		D	72019	27.55			1	S	S USG	S

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

Rottins://wis-waterdata.usga.gov/gn/gwie/gwie/gwie/site\_no=320134104094801&agency\_cd=USGS&format=html

## Received by QGD: 6/26/2023 2:05:49 PM

#### USGS Groundwater for New Mexico: Water Levels -- 1 sites

Page 31 of 80

Section	Code	Description
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

#### Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

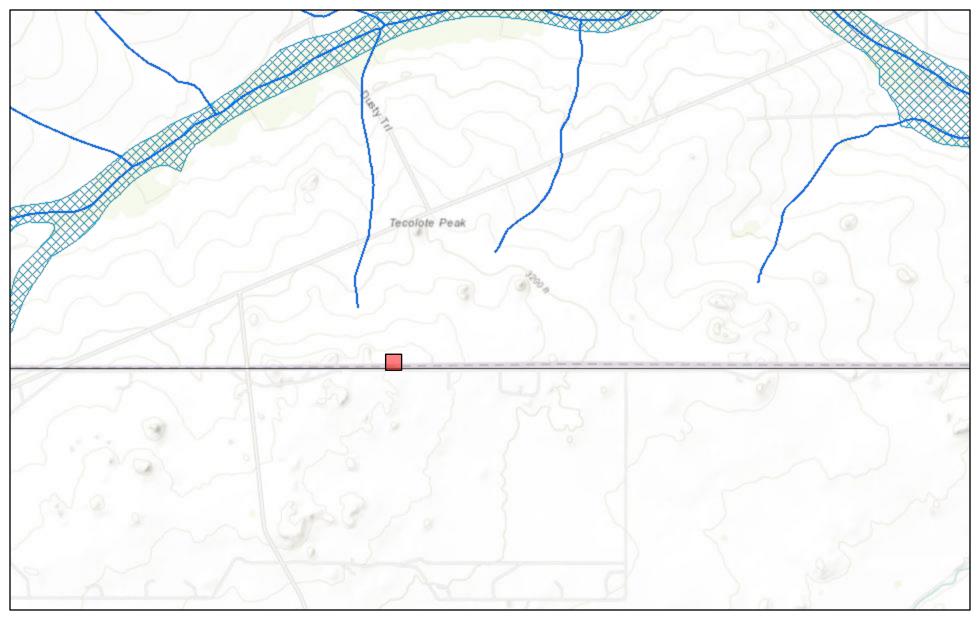
Accessibility FOIA Privacy Policies and Notices

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?

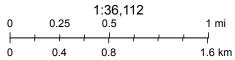
Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2023-04-03 10:56:08 EDT 0.3 0.25 nadww01 USA.gov

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# New Mexico NFHL Data







FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

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

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# **APPENDIX E**





April 11, 2023

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

RE: HORNSBY 35 FEDERAL COM #003

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

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

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

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

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

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	04/06/2023	ND	2.01	100	2.00	1.07	
Toluene*	<0.050	0.050	04/06/2023	ND	2.03	102	2.00	0.903	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	0.958	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.28	105	6.00	0.272	
Total BTEX	<0.300	0.300	04/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	04/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	166	83.0	200	1.68	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	189	94.7	200	0.477	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	83.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

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

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

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

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2023	ND	2.01	100	2.00	1.07	
Toluene*	<0.050	0.050	04/06/2023	ND	2.03	102	2.00	0.903	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	0.958	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.28	105	6.00	0.272	
Total BTEX	<0.300	0.300	04/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	04/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	166	83.0	200	1.68	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	189	94.7	200	0.477	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	81.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2023	ND	2.01	100	2.00	1.07	
Toluene*	<0.050	0.050	04/06/2023	ND	2.03	102	2.00	0.903	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	0.958	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.28	105	6.00	0.272	
Total BTEX	<0.300	0.300	04/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	166	83.0	200	1.68	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	189	94.7	200	0.477	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	81.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2023	ND	2.01	100	2.00	1.07	
Toluene*	<0.050	0.050	04/06/2023	ND	2.03	102	2.00	0.903	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	0.958	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.28	105	6.00	0.272	
Total BTEX	<0.300	0.300	04/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	166	83.0	200	1.68	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	189	94.7	200	0.477	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	80.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2023	ND	2.01	100	2.00	1.07	
Toluene*	<0.050	0.050	04/06/2023	ND	2.03	102	2.00	0.903	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	0.958	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.28	105	6.00	0.272	
Total BTEX	<0.300	0.300	04/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	166	83.0	200	1.68	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	189	94.7	200	0.477	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	78.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2023	ND	2.01	100	2.00	1.07	
Toluene*	<0.050	0.050	04/06/2023	ND	2.03	102	2.00	0.903	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	0.958	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.28	105	6.00	0.272	
Total BTEX	<0.300	0.300	04/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	04/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	69.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.1	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/06/2023	ND	2.01	100	2.00	1.07	
Toluene*	<0.050	0.050	04/06/2023	ND	2.03	102	2.00	0.903	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	0.958	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.28	105	6.00	0.272	
Total BTEX	<0.300	0.300	04/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	04/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	44.4	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

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

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

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

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	04/06/2023	ND	2.01	100	2.00	1.07	
Toluene*	<0.050	0.050	04/06/2023	ND	2.03	102	2.00	0.903	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	0.958	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.28	105	6.00	0.272	
Total BTEX	<0.300	0.300	04/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	04/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	75.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.3	% 49.1-14	8						

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

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

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	77.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.5	% 49.1-14	8						

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

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

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	76.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.1	% 49.1-14	8						

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

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

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

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	72.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.1	% 49.1-14	8						

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

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

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

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	120 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	04/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	<b>99.</b> 7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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

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

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	128	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	15.2	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	77.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.8	% 49.1-14	8						

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

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

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	79.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.5	% 49.1-14	8						

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

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

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	81.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.2	% 49.1-14	8						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
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	04/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	69.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.3	% 49.1-14	8						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	66.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.5	% 49.1-14	8						

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\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	127 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/06/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/06/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	70.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/06/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/07/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/07/2023	ND					
Surrogate: 1-Chlorooctane	69.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.5	% 49.1-14	8						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2023	ND	1.96	98.0	2.00	2.25	
Toluene*	<0.050	0.050	04/07/2023	ND	2.06	103	2.00	1.04	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.22	111	2.00	0.160	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.77	113	6.00	0.822	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/06/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/07/2023	ND	194	96.9	200	2.42	
DRO >C10-C28*	<10.0	10.0	04/07/2023	ND	206	103	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	04/07/2023	ND					
Surrogate: 1-Chlorooctane	85.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.7	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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.
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 SM4500CI-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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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May 17, 2023

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

RE: HORNSBY 35 FEDERAL COM #003

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

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

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	464	16.0	05/17/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	05/16/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/16/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	151	% 49.1-14	0						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/17/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/16/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND					
Surrogate: 1-Chlorooctane	120 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	155 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/17/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/16/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND					
Surrogate: 1-Chlorooctane	114 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	149 9	% 49.1-14	8						

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

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

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	05/17/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/16/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/16/2023	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	146	% 49.1-14	8						

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

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

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

BTEX 8021B	mg,	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	05/17/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	137	% 49.1-14	8						

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

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

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

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	05/17/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					
Surrogate: 1-Chlorooctane	103 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	134 9	% 49.1-14	8						

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

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

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

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/17/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					
Surrogate: 1-Chlorooctane	87.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	05/17/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/17/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					
Surrogate: 1-Chlorooctane	89.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/17/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					
Surrogate: 1-Chlorooctane	93.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

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

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

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

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	05/17/2023	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 49.1-14	8						

# Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/17/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	11.5	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	143	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/17/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					
Surrogate: 1-Chlorooctane	107 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	137 9	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2023	ND	2.08	104	2.00	4.54	
Toluene*	<0.050	0.050	05/16/2023	ND	2.06	103	2.00	4.80	
Ethylbenzene*	<0.050	0.050	05/16/2023	ND	2.13	106	2.00	5.81	
Total Xylenes*	<0.150	0.150	05/16/2023	ND	6.32	105	6.00	6.72	
Total BTEX	<0.300	0.300	05/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	05/17/2023	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/17/2023	ND	161	80.4	200	2.08	
DRO >C10-C28*	<10.0	10.0	05/17/2023	ND	184	92.0	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	05/17/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134	% 49.1-14	8						

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

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

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

- Champy	at an mall.	1345	23	5-16						,	
Received by: (Signature) Date/Time	Rece	ne	Date/Time					by: (Signature	Relinquished by: (Signature)		
2											
											Comments:
			١H						CZN7/01./C	(2.0')	SW-4 (Z.U)
		+	× >	<u> </u>		< >			5/16/2023	(2.0')	SW-3 (2.0')
		+	+	<u> </u>					5/16/2023	(2.0')	SW-2 (2.0')
		< > < >	< >	× _			. ×		5/16/2023	(2.0')	SW-1 (2.0')
		+	+	-			×		5/16/2023	1.5')	CS-6 (1.5')
		+	+		0 0		×		5/16/2023	1.5')	CS-5 (1.5')
		+	+		0 0		×		5/16/2023	1.5')	CS-4 (1.5')
		+	+		0		×		5/16/2023	2.0')	CS-3 (2.0')
		+	+		C		×		5/16/2023	2.0')	CS-2 (2.0')
		+	+		0		×		5/16/2023	2.0')	CS-1 (2.0')
Contribute a contr		$\vdash$		Cont		oil Water	Soil	Time	Date	tification	Sample Identification
Sample Comments			TPH	# of	Grab/		perature.				Total Containers:
NaOH+Ascorbic Acid: SAPC			8015		200	-8	ieauiig.	Corrected Temperature	NO NIA	lls: Yes	Sample Custody Seals:
Zn Acetate+NaOH: Zn					100		londing:	Tomporoturo Boo			Cooler Custody Seals:
- Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>				Pa	0100	5	br !!	Correction Eactor			Received Intact.
NaHSO4: NABIS		de 4	802 <sup>.</sup>	ram				Thermometer I	No		Designed Intent
H <sub>3</sub> PO <sub>4</sub> : HP			_	nete	NO	Ice: Yes	Wet Ice:	Yes No	Temp Blank:		
,			0+	ers							PO #:
5	-		MRC						GPJ		Sampler's Name:
	*		))	il. Verd	24 hr.		Due Date:	Nexico	Eddy County, New Mexico	Eddy	Project Location
			-	Code	5	e 🛛 Rush	Routine		2006		Project Number:
	ANALYSIS KEQUESI	-		Pres.		Turn Around		om #003	Hornsby 35 Federal Com #003	Hornsby	Project Name:
Dreservative Codes										432-013-0800	Phone:
Deliverables: EDD ADaPT U Uther:		laci.luio@coterra.com ashton.thielke@coterra.com	hton.thiel	L.com as	a@coterra	Email: laci lui				0000 010 0000	- 11 - L
		TX 79701	Midland, TX 79701		City, State ZIP:	City, St			701	Midland, TX 79701	e ZIP:
		600 N Marienfield St, Suite 600	600 N Ma		S	Address:			Ste 500	310 W Wall St Ste 500	
		nergy	Cimarex Energy		Company Name:	Compa			urces	Carmona Resources	Company Name:
fields			Laci Luig		Bill to: (if different)	Bill to: (				Ashton Thielke	Project Manager:
Work Order Comments											
Page1 of2								e G			
220											
Work Order No: H232450											
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Released to Imaging: 8/4/2023 8:45:16 AM

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# Chain of Custody

Project Name:         Truinsory 2006         Runine	ie:	Ashton Thielke Carmona Resources 310 W Wall St Ste 500 Midland, TX 79701 432-813-8988	rces	\$UU# ~	Email:	Bill to: (if different)     Laci Luig       Company Name:     Cimarex Energy       Address:     600 N Marienfield St, Suite 6       Address:     Kill and, TX 79701       City, State ZIP:     Midland, TX 79701       I:     Iaci. Iuig@coterra.com       ashton.thielke@coterra.com	ame: zip:		Laci Luig Cimarex Energy 600 N Marienfield St. Midland, TX 79701 hton.thielke@coterr	rienfield FX 7970	St, Suit	00	NA I	2	LYSIS R		Prograi State o Reporti Delivera	Program: US State of Proje Reporting:Lev Deliverables:	LYSIS REQUEST	ram: UST/PST	ram: UST/PST	ram: UST/PST [ of Project: rting:Level II ]L erables: EDD [	Work Urder Comminant       ram: UST/PST     PRP     rownfields       of Project:     Image: Comminant     Image: Comminant       rting:Level II     Level III     ST/UST       erables:     EDD     ADaPT	ram: UST/PST PRP rownfields of Project: rting:Level II Level III ST/UST erables: EDD ADaPT C	ram: UST/PST PRP rownfields of Project: rting:Level III Level III ST/UST erables: EDD ADaPT C
Print         2006         Inclusion         Inclusion         Reading         Press         Composition         Due Date:         24 hr.         Composition         Press         Composition         Due Date:         24 hr.         Due Date:         24 hr.         Composition         Due Date:         24 hr.         Composition         Due Date:         Due Date:         Due Date	Name:	Hornsby 3	5 Federal Co	m #003	Tur	Turn Around								A	A	A		A	A	A	A	ANALYSIS REQUEST	ANALYSIS REQUEST	ANALYSIS REQUEST	ANALYSIS REQUEST Preservati
Eddy County, New Mexico         Due Date:         24 hr.           GPJ         Temp Blank:         Yes         No         Thermometer ID:         Vision         Mexico         Date         Time         Vision         Parameters	Project Number:		2006		Routine	I Rush		Pres. Code	-	$\vdash$	+												None: N	None: NO	
GPJ           GPJ           Temp Blank:         Yes No         Thermometer ID:         Mo         Thermometer ID:         Mo         Thermometer ID:         Mo         Parameters         Parameters <th< td=""><td>roject Location</td><td>Eddy C</td><td>ounty, New M</td><td>exico</td><td>Due Date:</td><td>24 hr</td><td></td><td></td><td>2)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>HCI - HC</td><td></td></th<>	roject Location	Eddy C	ounty, New M	exico	Due Date:	24 hr			2)															HCI - HC	
PLE RECEIPT         Temp Blank:         Yes WD         Wet Ice:         (1)<	ampler's Name:		GPJ						MRC				,	,	,	,	,								
T         Temp Blank:         Yes         Wo         Thermoneter ID:         Vision         Thermoneter ID:         Vision         Thermoneter ID:         Vision         Correction Factor:         Vision         Vision         Date         Time         Soil         Soil         Soil         Soil         Parameter           5)         5/16/2023         5/16/2023         Soil         Water         Corrected Temperature:         Vision         Parameter           5)         5/16/2023         Sile         XX         C         1         X         C         1         X         X         C         1         X         X         C         1         X         X         X         C         1         X <td>0 #</td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ers</td> <td>0+1</td> <td></td> <td>,</td>	0 #	6						ers	0+1																,
Yes         No         Thermoneter ID:         1/3         Paral           Yes         No         Temperature Reading:         2012         9         9           51         5/16/2023         5/16/2023         X         2012         9         9           51         5/16/2023         5/16/2023         X         Corrected Temperature:         1         2         9         9           51         5/16/2023         X         X         C         1         X         X         C         1         X         X         1         X         X         1         X         X         1         X         X         1         X         X         1         X         X         1         X         X         1         X         X         1         X         X         1         X         X         1         X         X         1         X         X         1         1         X         X         1         1         X         X         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	SAMPLE RECEIPT		Blank:	Yes NO	Wet Ice:		No	nete																	
Yes         No         Correction Factor: Temperature Reading:        0.42 2,12         P           fication         Date         Time         Soil         Water         Grab Cont         # of Cont         # of Si	Received Intact:			Thermometer ID		1/3	•	ara														Hold			Hold National National
Yes         No         Temperature Reading:         Corrected Temperature:         L         Corrected Temperature:         L         Corrected Temperature:         L         C         Formation         Date         Time         Soil         Water         Grab/ comp         # of Cont         # of Teable         # of Si         Soil         Water         Grab/ comp         # of Cont         # of Si         # of Si         Si	Cooler Custody Seals:		NIA	Correction Facto	or:	-0.6		P														_	_	_	_
Incation         Date         Time         Soil         Water         Grab/ comp         # of	Sample Custody Seals:		ANA	Temperature Re	eading:	1~																			
Identification         Date         Time         Soil         Water         Grab/ comp         # of Cont         # of P           -5 (1.5)         5/16/2023         X         X         C         1         X         X           -6 (1.5)         5/16/2023         X         X         C         1         X         X           -7 (1.5)         5/16/2023         X         X         C         1         X         X           -8 (1.5)         5/16/2023         X         X         C         1         X         X           -8 (1.5)         5/16/2023         X         X         C         1         X         X           -8 (1.5)         5/16/2023         X         X         C         1         X         X           -8 (1.5)         5/16/2023         X         X         C         1         X         X           -8 (1.5)         5/16/2023         X	fotal Containers:		(	Corrected Temp	perature:	1/50																	NGC/11		
W-5 (1.5)       5/16/2023       X       C       1       X       X         W-6 (1.5)       5/16/2023       X       X       C       1       X       X         W-7 (1.5)       5/16/2023       X       X       C       1       X       X         W-8 (1.5)       5/16/2023       X       X       C       1       X       X         W-8 (1.5)       5/16/2023       X       X       X       X       X       X       X       X         W-8 (1.5)       5/16/2023       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X       X	Sample Identifica	cation	Date	Time	Soil			# of Cont	тр															Sample	Sample Comments
Wv6 (1.5)         5/16/2023         X         C         1         X         X           W-7 (1.5)         5/16/2023         X         X         C         1         X         X           W-8 (1.5)         5/16/2023         X         X         C         1         X         X           W-8 (1.5)         5/16/2023         X         X         C         1         X         X           W-8 (1.5)         5/16/2023         X         X         C         1         X         X           W-8 (1.5)         5/16/2023         X         X         C         1         X         X           W-8 (1.5)         5/16/2023         X         X         C         1         X         X           W-8 (1.5)         5/16/2023         X         X         C         1         X         X           W-8 (1.5)         5/16/2023         X         X         X         X         X         X         X         X           W-8 (1.5)         5/16/2023         X         X         X         X         X         X         X         X         X         X         X         X         X         X         X	SW-5 (1.5')		5/16/2023		×		C	1																	
W-7 (1.5)       5/16/2023       X       C       1       X       X         W-8 (1.5)       1       X       C       1       X       X         W-8 (1.5)       1       1       X       X       C       1       X       X         W-8 (1.5)       1       1       1       1       X       X       X       X         W-8 (1.5)       1       1       1       1       1       1       X       X         W-8 (1.5)       1	SW-6 (1.5')	5.	5/16/2023		×		C	-	-	+		1													
W-8 (1.5)       5/16/2023       X       C       1       X       X         Image: Signature       Image	SW-7 (1.5')	5')	5/16/2023		×		C	-	$\vdash$	$\vdash$	-		$\vdash$												
Relinquished by: (Signature)	SW-8 (1.5')	5']	5/16/2023		×		C	-	-	+	t		+	4											
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# Received by OCD: 6/26/2023 2:05:49 PM

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Work Order No:

HJZJ



May 18, 2023

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

RE: HORNSBY 35 FEDERAL COM #003

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

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

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

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

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

BTEX 8021B	mg,	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	05/17/2023	ND	2.21	111	2.00	16.2	
Toluene*	<0.050	0.050	05/17/2023	ND	2.24	112	2.00	14.6	
Ethylbenzene*	<0.050	0.050	05/17/2023	ND	2.15	108	2.00	13.7	
Total Xylenes*	<0.150	0.150	05/17/2023	ND	6.71	112	6.00	13.7	
Total BTEX	<0.300	0.300	05/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/18/2023	ND	432	108	400	7.69	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	05/18/2023	ND	175	87.5	200	4.95	
DRO >C10-C28*	<10.0	10.0	05/18/2023	ND	183	91.6	200	6.65	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					
Surrogate: 1-Chlorooctane	127	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	140	% 49.1-14	0						

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

# Chain of Custody

												ample
				Date/Tin								e Comments
97				ne								SIL
Relea	ise	d to	In	ıagi	ng: 8/4/2023	8:	45:1	6 A	I <i>M</i>			

Ç			Comments:								SW-2	Sample Id	Total Containers:	Sample Custody Seals	Cooler Custody Seals:	Received Intact:	SAMPLE RECEIPT	PO #:	Sampler's Name:	Project Location	Project Number:	Project Name:	Phone:	City, State ZIP:	Address:	Company Name:	Project Manager:
							λ.				SW-2 (2.0')	Sample Identification					EIPT			E		Horr	432-813-8988	Midland, TX 79701	310 W Wa	Carmona Resources	Ashton Thielke
	2	Relinquish									5/17/2023	Date		Yes No N/A	Yes No N/A	Yes No	Temp Blank:		GPJ	Eddy County, New Mexico	2006	Hornsby 35 Federal Com #003	886	X 79701	310 W Wall St Ste 500	Resources	elke
		Relinquished by: (Signature)									23	Time	Corrected Temperature:	Temperature Reading:	Correction Factor:	Thermometer ID:	Yes No	)		ew Mexico		al Com #003					
	*	e)									×	Soil	emperature:	Reading:	actor:	r ID:	Wet Ice:			Due Date:	Routine	T T	Em				
						1						Water c	4.42	5.20	· 0. u	113	Yes	)		24 hr.	I Rush	Turn Around	Email: laci.luig@coterra.com ashton.thielke@coterra.com	City, State ZIP	Address:	Company Name	Bill to: (if different)
	5				+			 	+	+	C 1	omp o								Pres. Code		oterra.com	IP:		ame;	ent)	
	17123	Date		╟	+	$\vdash$			+	+	×	3 9 BTEX 8021B									ashton	Midl	600	Cim	Laci Luig		
	-	Date/Time			+					+	×	ТР	TPH 8015M ( GRO + DRO + MRO)							)			.thielke	Midland, TX 79701	600 N Marienfield St, Suite 600	Cimarex Energy	Luig
	55										×	Chloride 4500											@cote	(79701	enfield (	ergy	
	0																						rra.co		it, Suite		
	Fa																						B		600		
	sd v2																					ANALYSIS REQUEST					
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					+	$\top$				+	+		NaO	Zn Ac	Na <sub>2</sub> S	NaHS	H <sub>3</sub> PC	H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub>	HCL: HC	Cool:	None: NO		ADaPT L			Program: UST/PST PRP rownfields	Work Order Comments
-	-											Samp	H+Asco	cetate+	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	NaHSO4: NABIS	H <sub>3</sub> PO <sub>4</sub> : HP	4: H <sub>2</sub>	HC	Cool: Cool	NO	Prese	g	LRRP	C	RC	nents
		Da										le Cor	orbic Ac	Zn Acetate+NaOH: Zn	aSO3	ABIS		7	. <b>T</b>	2		rvativ	Other:				
		Date/Time										Sample Comments	NaUH+Ascorbic Acid: SAPC	Zn				NaOH: Na	HNO3: HN	MeOH: Me	DI Water: H <sub>2</sub> O	Preservative Codes		Level IV			
												U U	C	)				ß	Z	le	: H <sub>2</sub> O	S					

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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

Operator: 0	OGRID:
CIMAREX ENERGY CO.	215099
6001 Deauville Blvd	Action Number:
Midland, TX 79706	232897
	Action Type:
	[C-141] Release Corrective Action (C-141)

### CONDITIONS

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

Action 232897