

## SITE INFORMATION

Closure Report Marquardt Federal #015H Incident ID: nAB1616628121 Eddy County, New Mexico Unit N Sec 01 T25S R26E 32.1523209°, -104.2499313°

### **Point of Release:**

Truck driver overfilled the truck when loading oil at the LACT unit

Release Date: 06/11/2016

Volume Released: 15 Barrels of Crude Oil Volume Recovered: 14 Barrels of Crude Oil

# CARMONA RESOURCES

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

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

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



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APPENDIX E LABORATORY REPORTS

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



June 1, 2023

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

**Re:** Closure Report

Marquardt Federal #015H Incident ID: nAB1616628121 Cimarex Energy Co. of Colorado Site Location: Unit N, S01, T25S, R26E (Lat 32.1523209°, Long -104.2499313°) Eddy County, New Mexico

### Mr. Bratcher:

On behalf of Cimarex Energy Co. of Colorado (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for the Marquardt Federal #015H. The site is located at 32.1523209°, -104.2499313° within Unit N, S01, T25S, R26E, in Eddy County, New Mexico (Figures 1 and 2).

## 1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on June 11, 2016, caused by a truck driver overfilling the truck when loading oil at the LACT unit. It resulted in approximately fifteen (15) barrels of crude oil, and fourteen (14) barrels of crude oil 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 1.91 miles Northwest of the site in S34, T24S, R26E and was drilled in 2005. The well has a reported depth to groundwater of 52' 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

Between April 4, 2023, and May 17, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, three (3) sample points and seven (7) 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**

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 15, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The areas of H-1, H-2, and H-3 were excavated to a depth of 1.5' bgs. A total of eight (8) confirmation floor samples (CS-1 through CS-8) and ten (10) sidewall samples (SW-1 through SW-10) 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 140 cubic yards of material were excavated and transported offsite for proper disposal.

# **6.0 Conclusions**

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

Sincerely,

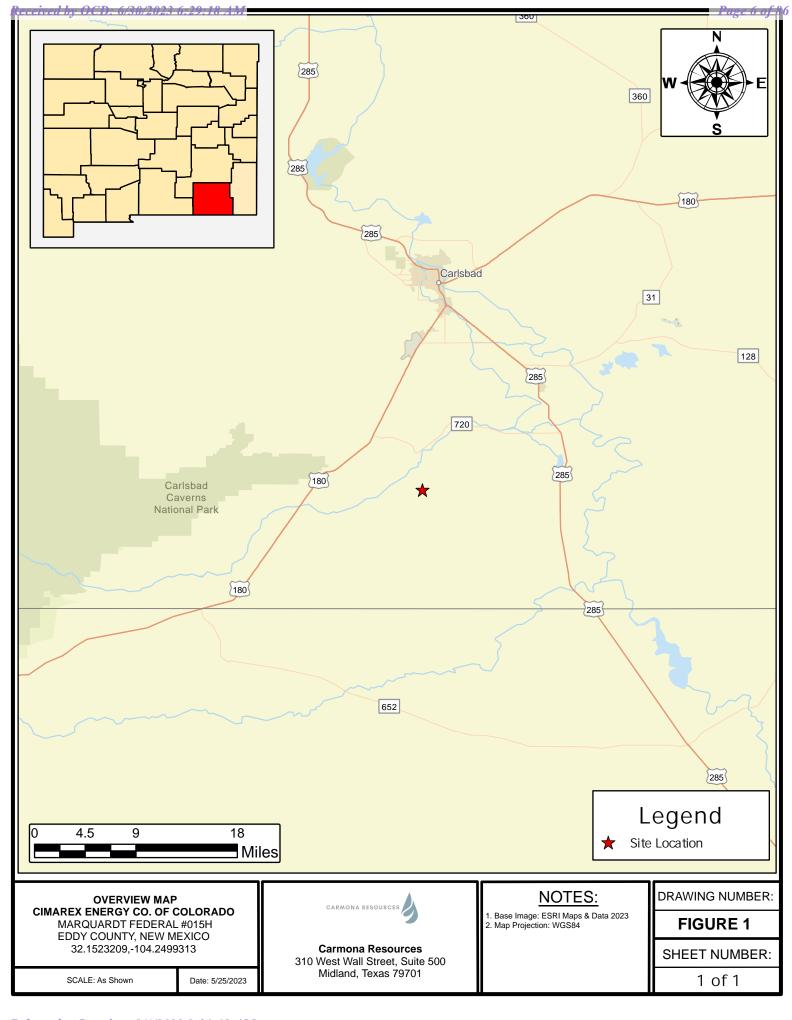
Carmona Resources, LLC

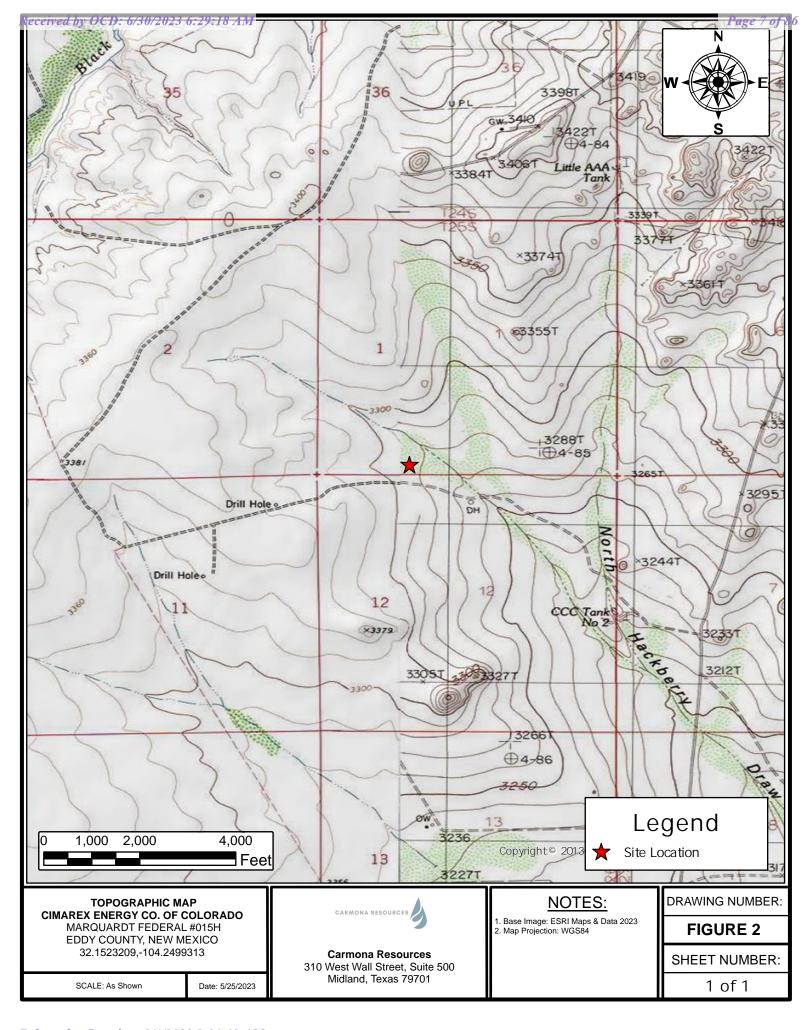
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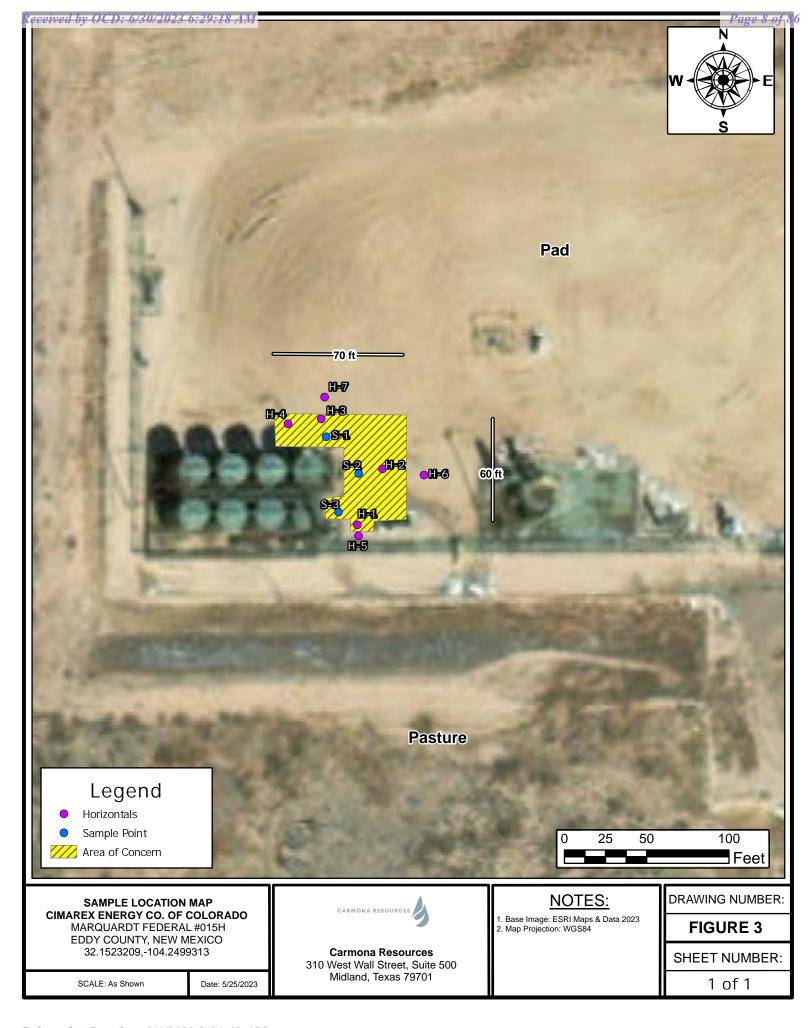
Sr. Project Manager

Conner Moehring Sr. Project Manager

# **FIGURES**











# **APPENDIX A**

Table 1
Cimarex Energy Co
Marquardt Federal #015H
Eddy County, New Mexico

0 1 10		B 41 (6)		TPH	TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
S-1	4/3/2023	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
	4/3/2023	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
S-2	"	0.5'-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	< 0.050	<0.050	<0.150	<0.300	272
	"	1.0'-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
	4/3/2023	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
S-3	"	0.5'-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	304
	"	1.0'-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
	4/3/2023	0-0.5'	<10.0	5,270	2,220	7,490	<0.050	<0.050	<0.050	<0.150	<0.300	480
11.4	4/17/2023	0-1.0'	<10.0	476	132	618	<0.050	<0.050	<0.050	<0.150	<0.300	192
H-1	"	1.0'-1.5'	<10.0	43.2	<10.0	43.2	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
	"	1.5'-2.0'	<10.0	13.2	<10.0	13.2	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	4/3/2023	0-0.5'	<10.0	2,030	767	2,797	<0.050	<0.050	<0.050	<0.150	<0.300	288
H-2	4/17/2023	0-1.0'	<10.0	767	239	1,016	<0.050	<0.050	<0.050	<0.150	<0.300	384
П-2	"	1.0'-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	4/3/2023	0-0.5'	<10.0	89.4	91.1	181	<0.050	<0.050	<0.050	<0.150	<0.300	1,230
	4/17/2023	0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
H-3	"	1.0'-1.5'	<10.0	<10.0	<10.0	<10.0	< 0.050	<0.050	<0.050	<0.150	< 0.300	48.0
	"	1.5'-2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-4	4/3/2023	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	464
H-5	4/17/2023	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
H-6	4/17/2023	0-0.5'	<10.0	11.0	<10.0	11.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
H-7	4/17/2023	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
	ry Criteria A					100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

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

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(H) - Horizontal Sample

(S) - Sample Point

Removed

Table 2
Cimarex Energy Co
Marquardt Federal #015H
Eddy County, New Mexico

Comple ID	Doto	Donath (66)		TPH	TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
CS-1	5/18/2023	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-2	5/18/2023	1.5'	<10.0	19.2	<10.0	19.2	<0.050	<0.050	<0.050	<0.150	<0.300	128
CS-3	5/18/2023	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-4	5/18/2023	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-5	5/18/2023	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-6	5/18/2023	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-7	5/18/2023	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-8	5/18/2023	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-1	5/18/2023	1.5'	<10.0	18.3	<10.0	18.3	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-2	5/18/2023	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
SW-3	5/18/2023	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-4	5/18/2023	1.5'	<10.0	20.6	<10.0	20.6	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-5	5/18/2023	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
SW-6	5/18/2023	1.5'	<10.0	14.0	<10.0	14.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-7	5/18/2023	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-8	5/18/2023	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-9	5/18/2023	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-10	5/18/2023	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
Regulato	ry Criteria <sup>A</sup>					100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

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

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) - Confirmation Sample

(SW) - Sidewall Sample

# **APPENDIX B**

# PHOTOGRAPHIC LOG

Cimarex Energy Co. of Colorado

# Photograph No. 1

Facility: Marquardt Federal #015H

County: Eddy County, New Mexico

## **Description:**

View Southwest, area of concern before excavation.



# Photograph No. 2

Facility: Marquardt Federal #015H

County: Eddy County, New Mexico

## **Description:**

View Southwest, area of concern before excavation.



# Photograph No. 3

Facility: Marquardt Federal #015H

County: Eddy County, New Mexico

# **Description:**

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





# **PHOTOGRAPHIC LOG**

Cimarex Energy Co. of Colorado

# Photograph No. 4

Facility: Marquardt Federal #015H

County: Eddy County, New Mexico

**Description:** 

View South, area of CS-3 through CS-6.



# Photograph No. 5

Facility: Marquardt Federal #015H

County: Eddy County, New Mexico

**Description:** 

View East, area of CS-6 through CS-8.



# **APPENDIX C**

# **NM OIL CONSERVATION** ARTESIA DISTRICT

State of New Mexico **Energy Minerals and Natural Resources** 

JUN 1 3 2016

Form C-141 Revised August 8, 2011

1625 N. French Dr., Hobbs, NM 88240 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

<u>District I</u> 1625 N. French Dr., 11obbs, NM 88240

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC. **RECEIVED** 

			Rele	ease Notific	ation	and Co	rrective A	ction					
NAB	16/6	28121				OPERAT	OR _		Initia	al Report		Final Re	port
Name of Company Cimarex Energy //22/183						Contact Christine Alderman							
							lo. 432-853-70	59					—
Facility Nar	ne Marqu	ardi red 151	гасину тур	e Production									
Surface Ow	ner BLM					API No	<u>30-015</u>	<u>-4247</u>	1				
				LOCA		OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the	North	South Line	Feet from the	East/W	est Line	County			
N	01	25S	26E	200		S	1550	v	V		Edd	y	
Latitude 32.15232_Longitude -104.249931													
				NAT	URE	OF RELI	EASE				_		
Type of Rele		oil				<del></del>	Release 15 bbls			Recovered		4 bbls	
Source of Re truck	lease	·				Date and H	lour of Occurrenc		Date and 06/11/20	Hour of Dis	covery	′	
Was Immedia	nte Notice (		Voc F	1 No. 17 No. 19		If YES, To	Whom?		O(# ) 1/20				<u>,</u>
D . Wh 0	Obstate - A		168	No Not Re	equired		tterson/Shelly Tu				<u>.</u>		
By Whom? Was a Water				<u> </u>			lour 06/13/2016 dume Impacting t				<del></del>		
			Yes 🛭	No		, , , ,							
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	<b>*</b>		·!						<del></del>	
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Describe Cau	se of Proble	em and Reme	dial Action	n Taken *	· · · · · · · · · · · · · · · · · · ·								
				f the truck overfill	ed his te	ank.			,				
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All fluids stay	yed on local	tion and the tr	ucking co	mpany hydrovac-	ed impa	cted area. Te	tra Tech is going	to go out	and get c	onfirmation	sampl	es and a	
closure report	i will be sut	omitted,											1
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regulations al	ty that the i l onerators	ntormation gr are required to	ven above o report ar	is true and comp ad/or file certain re	lete to th clease ne	te best of my otifications ar	knowledge and u id perform correc	inderstand ctive actio	that purs	suant to NM eases which	OCD r may e	ules and indanger	
public health	or the envir	conment. The	acceptance	e of a C-141 repo	rt by the	NMOCD ma	arked as "Final Re	eport" do	es not reli	eve the ope	rator o	f liability	ì
or the enviror	perations h ment. In a	ave failed to a	idequately ICD accen	investigate and restance of a C-141:	emediate renort d	c contaminations	on that pose a three the operator of a	eat to gro	und water	, surface wa	iter, hu	ıman health v other	
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Signature: (	"IWW	une c	Udl	rman					_ j <b> </b>				
Printed Name	: Christine	Alderman				Approved by	Environmental S <sub>l</sub>	pecialist:	Hz	1 kg	~		
Title: ESH S	upervisor			<del></del>		Approval Dat	e: 12   14   1 (d	0 E	cpiration !	Date: NI	A		
		~ :											_
E-mail Addre	ss; caldern	nan@cimarex	com			Conditions of	• -	B!		Attached			
	1/2016	Phone: 432-					n per O.C.D. <del>MEDIATION</del>						
Attach Addit	ional Shee	ets If Necess	ary			ATER THA			JOALT	ίο λά	P.3	733 -	_

# Patterson, Heather, EMNRD

From: Christine Alderman <calderman@cimarex.com>

**Sent:** Monday, June 13, 2016 2:14 PM

To: Patterson, Heather, EMNRD; stucker@blm.gov; Amos, James A (jamos@blm.gov)

Cc: Gloria Garza

**Subject:** Marquart Fed 15H (30-015-42471)

**Attachments:** 20160613150529620.pdf

All,

We had a reportable spill at the above named location 6/11/2016. An oil hauler was filling his truck at the LACT unit, and overfilled. Approximately 15 bbls of crude was released and approximately 14 bbls were recovered.

The hauling company was out there this weekend with a hydro-vac and removed the impacted soils. I have contracted TetraTech to grab samples to confirm we have gotten all the hydrocarbon impact.

Please see attached C-141. Thank you!

Christine Alderman

Cimarex Energy Co.

CIMAREX

ESH Supervisor – Permian Basin Midland TX Cell – 432.853.7059 Received by OCD: 6/30/2023 6:29:18 AM Form C-141 State of New Mexico
Page 3 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?							
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?							
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?							
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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil						
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 well Field data  Data table of soil contaminant concentration data  Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs  Photographs including date and GIS information  Topographic/Aerial maps  Laboratory data including chain of custody	ls.						

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: 6/30/2023 6:29:18 AM State of New Mexico
Page 4 Oil Conservation Division

	Page 21 of	86
Incident ID		
District RP		
Facility ID		
Application ID		

e best of my knowledge and understand that pursuant to OCD rules and tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In of responsibility for compliance with any other federal, state, or local laws
Title:
Date:
Telephone:
Date: 6/30/2023

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Incident ID		
District RP		
Facility ID		
Application ID		

# Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.1	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 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 remuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the confidence 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 neditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.					
Printed Name:						
Signature: <u>Aac</u> .	Date:					
	Telephone:					
OCD Only						
Received by: Shelly Wells	Date: _6/30/2023					
remediate contamination that poses a threat to groundwater, surface v party of compliance with any other federal, state, or local laws and/o	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.					
Closure Approved by: Lattan Hall	Date: 8/4/2023					
Printed Name: Brittany Hall	Title: _Environmental Specialist					

# **Ashton Thielke**

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

**Sent:** Monday, May 15, 2023 3:04 PM

**To:** Ashton Thielke

Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD

**Subject:** RE: [EXTERNAL] nAB1616628121 - MARQUARDT FEDERAL #015H (06.11.2016) -

**Confirmation Sampling Notification** 

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

## Ashton,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

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

http://www.emnrd.nm.gov



From: Ashton Thielke < Ashton. Thielke@coterra.com>

Sent: Monday, May 15, 2023 6:11 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] nAB1616628121 - MARQUARDT FEDERAL #015H (06.11.2016) - Confirmation Sampling Notification

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

# Good afternoon,

This email serves as 48+ hour notification for confirmation sampling on the MARQUARDT FEDERAL #015H (06.11.2016). Sampling is scheduled to begin as early as 11:30am (MST) Wednesday, May 17<sup>th</sup>, weather and soil conditions permitting. Carmona Resources will be on site to collect the confirmation samples.

Incident ID: nAB1616628121

Coordinates: 32.15232, -104.249931

Thank you,



Ashton Thielke | PBU - Environmental Consultant
T: 432.813.8988 | M: 281.753.5659 | Ashton.Thielke@coterra.com | www.coterra.com
Coterra Energy Inc. | 6000 Deauville Blvd., Suite 300N | Midland, TX 79706

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

This message may contain confidential and/or privileged information. If you are not the addressee or authorized to receive this for the addressee, you must not use, copy, disclose or take any action based on this message or any information herein. If you have received this message in error, please advise the sender immediately by reply e-mail and delete this message.

# **APPENDIX D**



Received by OCD: 6/30/2023 6:29:18 AM High Karst Page 27 of 86 Legend High Cimarex Energy Co. MARQUARDT FEDERAL#015H Medium MARQUARDT FEDERAL #015H Greleased to Imaging: 8/4/2023 8:21:18 AM 1 mi



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters) (In feet)

	0.0000,	`						- '/ '		/	`	,	
	POD Sub-		Q	Q C	<b>)</b>						Depth	Depth	Water
POD Number	Code basin	County	64 1	6 4	Sec	Tws	Rng	Х	Υ	Distance	-	-	Column
C 03569 POD1	CUB	ED	2	1 1	I 14	25S	26E	568862	3555746 🌍	2557	30	0	30
C 03200 POD1	С	ED	2	3 4	1 34	24S	26E	568206	3559349 🍯	3061	80	52	28
C 01089	С	ED	3	4 1	03	25S	26E	567505	3558398* 🌍	3286	96	45	51
C 04586 POD1	С	ED	4	1 1	I 35	24S	26E	568993	3560476 🧲	3381	150		
<u>C 00819</u>	С	ED		4 4	1 26	24S	26E	570022	3560935* 🧲	3452	62	42	20
C 03654 POD1	CUB	ED	2	3 1	l 24	25S	26E	570654	3553773 🌍	3772			

Average Depth to Water: 34 feet

Minimum Depth: 0 feet

Maximum Depth: 52 feet

**Record Count: 6** 

UTMNAD83 Radius Search (in meters):

Easting (X): 570679.42 Northing (Y): 3557545.31 Radius: 4000

\*UTM location was derived from PLSS - see Help

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



# New Mexico Office of the State Engineer

# **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** 

Q64 Q16 Q4 Sec Tws Rng

C 03200 POD1

24S 26E 3559349

**Driller License:** 685 **Driller Company:** BRAZEAL, JOHN

**Driller Name:** WAYNE BRAZEAL

**Drill Start Date:** 08/12/2005 **Drill Finish Date:** 

08/20/2005

**Plug Date:** 

Log File Date:

08/18/2006

**PCW Rcv Date:** 

Source:

568206

Shallow

**Pump Type:** 

Pipe Discharge Size:

**Estimated Yield:** 

8 GPM

**Casing Size:** 

Depth Well:

80 feet

Depth Water:

Water Bearing Stratifications:

52 feet

**Bottom Description** Top

65

75 Sandstone/Gravel/Conglomerate

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3/22/23 11:01 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

# **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

C 01089

4 1 03 25S 26E

567505 3558398\*

5\* 🌎

Driller License: 46 Driller Company: ABBOTT BROTHERS COMPANY

**Driller Name:** ABBOTT, FLOYD

 Drill Start Date:
 08/06/1962
 Drill Finish Date:
 08/07/1962
 Plug Date:
 11/01/1962

 Log File Date:
 08/17/1962
 PCW Rcv Date:
 Source:
 Shallow

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: 7.00 Depth Well: 96 feet Depth Water: 45 feet

х	Water Bearing Stratifications:	Тор	Bottom	Description
		45	65	Sandstone/Gravel/Conglomerate
		65	75	Sandstone/Gravel/Conglomerate
		75	90	Sandstone/Gravel/Conglomerate
X	Casing Perforations:	Тор	Bottom	
		45	90	

<sup>\*</sup>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.

3/22/23 11:02 AM

POINT OF DIVERSION SUMMARY

# New Mexico NFHL Data



March 22, 2023

1:18,056 0 0.13 0.25 0.5 mi 0 0.2 0.4 0.8 km

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

# **APPENDIX E**



April 11, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: MARQUARDT FEDERAL #015H (06.11.2016)

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/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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)

Celey D. Keene

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. 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: 04/03/2023
Sampling Type: Soil

Reported: 04/11/2023
Project Name: MARQUARDT FEDERAL #015H (06.11.20

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Project Number: 2003

Project Location: CIMAREX - EDDY CO NM

# Sample ID: S - 1 (0-0.5) (H231585-01)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2023	ND	1.98	99.2	2.00	1.07	
Toluene*	<0.050	0.050	04/07/2023	ND	1.97	98.6	2.00	0.0123	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.05	102	2.00	1.10	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.14	102	6.00	1.79	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/06/2023	ND	400	100	400	3.92	
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	189	94.5	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	183	91.5	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	89.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.5	% 49.1-14	8						

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\*=Accredited Analyte

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Celey D. Keene

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 Reported: 04/11/2023

04/11/2023 MARQUARDT FEDERAL #015H (06.11.20

Project Number: 2003

Project Name:

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 04/03/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

## Sample ID: S - 2 (0-0.5) (H231585-02)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2023	ND	1.98	99.2	2.00	1.07	
Toluene*	<0.050	0.050	04/07/2023	ND	1.97	98.6	2.00	0.0123	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.05	102	2.00	1.10	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.14	102	6.00	1.79	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	mg/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/06/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	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	189	94.5	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	183	91.5	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	96.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keene

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 Reported: 04/11/2023

MARQUARDT FEDERAL #015H (06.11.20

Project Number: 2003

Project Name:

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 04/03/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

## Sample ID: S - 2 (0.5'-1.0') (H231585-03)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2023	ND	1.98	99.2	2.00	1.07	
Toluene*	<0.050	0.050	04/07/2023	ND	1.97	98.6	2.00	0.0123	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.05	102	2.00	1.10	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.14	102	6.00	1.79	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/06/2023	ND	400	100	400	3.92	
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	189	94.5	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	183	91.5	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	8						

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Celey D. Keene

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 Reported: 04/11/2023

04/11/2023 Sampling MARQUARDT FEDERAL #015H (06.11.20 Sampling

Project Number: 2003

Project Name:

RTFY 8021R

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 04/03/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: S - 2 (1.0'-1.5') (H231585-04)

BIEX 8021B	mg	/кд	Anaiyze	a 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	1.98	99.2	2.00	1.07	
Toluene*	<0.050	0.050	04/07/2023	ND	1.97	98.6	2.00	0.0123	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.05	102	2.00	1.10	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.14	102	6.00	1.79	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-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	04/06/2023	ND	400	100	400	3.92	
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	189	94.5	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	183	91.5	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



### Analytical Results For:

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

Received: 04/05/2023 Reported:

04/11/2023 Sampling Type: MARQUARDT FEDERAL #015H (06.11.20 Sampling Condition:

Project Name: Project Number: 2003

Project Location: CIMAREX - EDDY CO NM Sampling Date: 04/03/2023 Soil

Sample Received By:

Cool & Intact Tamara Oldaker

### Sample ID: S - 3 (0-0.5) (H231585-05)

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	04/07/2023	ND	1.98	99.2	2.00	1.07	
Toluene*	<0.050	0.050	04/07/2023	ND	1.97	98.6	2.00	0.0123	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.05	102	2.00	1.10	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.14	102	6.00	1.79	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/06/2023	ND	400	100	400	3.92	
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	189	94.5	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	183	91.5	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 04/05/2023 Reported: 04/11/2023

MARQUARDT FEDERAL #015H (06.11.20

Project Number: 2003

Project Name:

RTFY 8021R

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 04/03/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: S - 3 (0.5'-1.0') (H231585-06)

B1EX 8021B	mg	/кд	Anaiyze	a 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	1.98	99.2	2.00	1.07	
Toluene*	<0.050	0.050	04/07/2023	ND	1.97	98.6	2.00	0.0123	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.05	102	2.00	1.10	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.14	102	6.00	1.79	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 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	304	16.0	04/06/2023	ND	400	100	400	3.92	
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	189	94.5	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	183	91.5	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



## Analytical Results For:

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

Received: 04/05/2023 Reported: 04/11/2023

MARQUARDT FEDERAL #015H (06.11.20

Project Number: 2003

Project Name:

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 04/03/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: S - 3 (1.0'-1.5') (H231585-07)

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	04/07/2023	ND	1.98	99.2	2.00	1.07	
Toluene*	<0.050	0.050	04/07/2023	ND	1.97	98.6	2.00	0.0123	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.05	102	2.00	1.10	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.14	102	6.00	1.79	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500CI-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	400	100	400	3.92	
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	189	94.5	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	183	91.5	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

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### Analytical Results For:

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

Received: 04/05/2023 Reported: 04/11/2023

04/11/2023 Sampling Type: MARQUARDT FEDERAL #015H (06.11.20 Sampling Condition:

Applyzod By: 14

Sampling Date:

Project Name: MARC Project Number: 2003

Project Location: CIMAREX - EDDY CO NM

Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

04/03/2023

### Sample ID: H-1 (0-0.5) (H231585-08)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2023	ND	1.98	99.2	2.00	1.07	
Toluene*	<0.050	0.050	04/07/2023	ND	1.97	98.6	2.00	0.0123	
Ethylbenzene*	<0.050	0.050	04/07/2023	ND	2.05	102	2.00	1.10	
Total Xylenes*	<0.150	0.150	04/07/2023	ND	6.14	102	6.00	1.79	
Total BTEX	<0.300	0.300	04/07/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	04/06/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed 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	04/06/2023	ND	189	94.5	200	1.53	
DRO >C10-C28*	5270	10.0	04/06/2023	ND	183	91.5	200	1.59	
EXT DRO >C28-C36	2220	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	96.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	179	% 49.1-14	8						

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### Analytical Results For:

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

Received: 04/05/2023 Reported: 04/11/2023

MARQUARDT FEDERAL #015H (06.11.20

Project Number: 2003

Project Name:

Project Location: CIMAREX - EDDY CO NM Sampling Date: 04/03/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: H-2 (0-0.5) (H231585-09)

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	04/06/2023	ND	2.01	100	2.00	1.07	QR-03
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	QR-03
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	288	16.0	04/06/2023	ND	400	100	400	3.92	
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	189	94.5	200	1.53	
DRO >C10-C28*	2030	10.0	04/06/2023	ND	183	91.5	200	1.59	
EXT DRO >C28-C36	767	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	100 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 04/05/2023 Reported: 04/11/2023

MARQUARDT FEDERAL #015H (06.11.20

Project Number: 2003

Project Name:

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 04/03/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: H-3 (0-0.5) (H231585-10)

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	04/06/2023	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	04/06/2023	ND	400	100	400	3.92	
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	189	94.5	200	1.53	
DRO >C10-C28*	89.4	10.0	04/06/2023	ND	183	91.5	200	1.59	
EXT DRO >C28-C36	91.1	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	97.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	18						

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### Analytical Results For:

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

Received: 04/05/2023 Reported: 04/11/2023

MARQUARDT FEDERAL #015H (06.11.20

Project Number: 2003

Project Name:

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 04/03/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: H-4 (0-0.5) (H231585-11)

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	04/06/2023	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, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	04/06/2023	ND	400	100	400	3.92	
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	189	94.5	200	1.53	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	183	91.5	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					
Surrogate: 1-Chlorooctane	92.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

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### **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

City, State ZIP:

310 W Wall St Ste 415 Midland, TX 79701

Address:

Cimarex Energy Laci Luig

600 N Marienfield St, Suite 600

State of Project:

Program: UST/PST PRP rownfields RC

perfund

Work Order Comments

Bill to: (if different) Company Name:

Carmona Resources As:hton Thielke

Company Name: roject Manager:

	f Custody
Work Order No:	
H2315&	
Page 14	of 15

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Date/Time											Committee	Sample Comments	ic Acid: S	OH: Zn	0	Sis		NaOH: Na	HNO <sub>3</sub> : HN	MeOH: Me	DI W	<b>Preservative Codes</b>		, _	_
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# Chain of Custody

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company name:	Carmona Resources	S			Company Name:	16.	Cimarex Energy	Energy	. *		*	Program	HST/DST	- boo	Program: UST/PST   DBB		ב	188
Address:	310 W Wall St Ste 415	415			Address:		600 N N	larienfield	600 N Marienfield St, Suite 600	0		State of Project:	roject:	:	- IOMIIIIGE	usKC	perfund	
Dhora:	IVIIUIAIIO, IX /9/01				City, State ZIP:		Midland	Midland, TX 79701				Reporting:Level II Level III	Level II	Level III	ST/UST	RRP	evel IV	_
Prione:	432-813-8988		2000	Email:	Email: laci.luig@coterra.com ashton.thielke@coterra.com	erra.com a	shton.thi	lke@co	erra.com			Deliverables: EDD	es: EDD	<u> </u>	ADaPT			
Project Name:	Marquardt Federal #015H (06.11.2016)	al #015H (06.11	1.2016)	Turn	Turn Around					ANAI	Ve 10 0 0 0					988		
Project Number:		2003		☑ Routine	□ Rush	Pres.	1	-		AMAL	ALTOIS REQUEST	UUESI		-		Preserva	<b>Preservative Codes</b>	
Project Location	Eddy Coun	Eddy County, New Mexico		Due Date:	Marmal	Code	1	+	+	+	F	H	İ	$\vdash$	Nor	None: NO	DI Water: H <sub>2</sub> O	H <sub>2</sub> O
Sampler's Name:	GF	GPJ/KB		vac Daw.	INOILIIGI			"		_	_	_	_	_	Coc	Cool: Cool	MeOH: Me	_
PO #:								MRC	,						НС	HCL: HC	HNO.: HN	
SAMPLE RECEIPT	PT Temp Blank:	×	Yes No	Mot Inc.	5	ters					,	7.			H <sub>2</sub> S	H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub>	NaOH: Na	
Received Intact:			Thermometer ID:	***************************************	NO SON	ame	)21B	4500		1			_	_	H <sub>3</sub> P	H <sub>3</sub> PO <sub>4</sub> : HP		
Cooler Custody Seals:	Yes No	A)	Correction Factor:		5			_						_	Nah	NaHSO <sub>4</sub> : NABIS	0,	-
Sample Custody Seals:	Yes No		Temperature Reading:	ng.	507									_	Na <sub>2</sub>	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	ω	-
Total Containers:			Corrected Temperature:	ture:	ting										Zn A	Zn Acetate+NaOH: Zn	)H: Zn	
Sample Identification		Date T	Time	Soil	Water Grab/	# of	трн								NaC	)H+Ascorbic	NaOH+Ascorbic Acid: SAPC	
H_4 (0_0 5")		500			Comp	100		-								Sample C	Sample Comments	
		4/3/2023		×	G	_	×	×			H			H				
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Work Order No; HZ31585

Page 15 of 15



April 21, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: MARQUARDT FEDERAL #015H (06.11.2016)

Enclosed are the results of analyses for samples received by the laboratory on 04/17/23 15:02.

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/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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)

Celey D. Keene

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. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 04/17/2023 Reported:

04/21/2023 MARQUARDT FEDERAL #015H (06.11.20

Project Name: Project Number: 2003

Project Location: CIMAREX - EDDY CO NM

04/17/2023 Sampling Date:

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

### Sample ID: H - 1 (0-1.0') (H231837-01)

BTEX 8021B	mg,	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2023	ND	1.90	95.1	2.00	22.7	
Toluene*	<0.050	0.050	04/20/2023	ND	2.02	101	2.00	23.2	
Ethylbenzene*	<0.050	0.050	04/20/2023	ND	2.07	103	2.00	22.2	
Total Xylenes*	<0.150	0.150	04/20/2023	ND	6.23	104	6.00	22.8	
Total BTEX	<0.300	0.300	04/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/19/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/20/2023	ND	189	94.5	200	1.58	
DRO >C10-C28*	476	10.0	04/20/2023	ND	173	86.6	200	1.03	
EXT DRO >C28-C36	132	10.0	04/20/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

A ... - I. ... - d D. ... 311 /

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Celeg D. Keene



### Analytical Results For:

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

Received: 04/17/2023 Reported: 04/21/2023

04/21/2023 MARQUARDT FEDERAL #015H (06.11.20

Project Number: 2003

Project Name:

RTFY 8021R

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 04/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: H - 1 (1.0'-1.5') (H231837-02)

B1EX 8021B	mg,	кg	Апануге	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2023	ND	1.90	95.1	2.00	22.7	
Toluene*	<0.050	0.050	04/20/2023	ND	2.02	101	2.00	23.2	
Ethylbenzene*	<0.050	0.050	04/20/2023	ND	2.07	103	2.00	22.2	
Total Xylenes*	<0.150	0.150	04/20/2023	ND	6.23	104	6.00	22.8	
Total BTEX	<0.300	0.300	04/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13	4						
Chloride, SM4500CI-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	04/19/2023	ND	400	100	400	3.92	
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	04/20/2023	ND	189	94.5	200	1.58	
DRO >C10-C28*	43.2	10.0	04/20/2023	ND	173	86.6	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					
Surrogate: 1-Chlorooctane	98.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

Applyzod By: 1H /

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Celey D. Keene



### Analytical Results For:

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

Received: 04/17/2023 Reported:

04/21/2023 MARQUARDT FEDERAL #015H (06.11.20

Project Number: 2003

Project Name:

Project Location: CIMAREX - EDDY CO NM Sampling Date: 04/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

### Sample ID: H - 1 (1.5'-2.0') (H231837-03)

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	04/20/2023	ND	1.90	95.1	2.00	22.7	
Toluene*	<0.050	0.050	04/20/2023	ND	2.02	101	2.00	23.2	
Ethylbenzene*	<0.050	0.050	04/20/2023	ND	2.07	103	2.00	22.2	
Total Xylenes*	<0.150	0.150	04/20/2023	ND	6.23	104	6.00	22.8	
Total BTEX	<0.300	0.300	04/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/19/2023	ND	400	100	400	3.92	
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	04/20/2023	ND	189	94.5	200	1.58	
DRO >C10-C28*	13.2	10.0	04/20/2023	ND	173	86.6	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 04/17/2023 Reported: 04/21/2023 Sampling Date: 04/17/2023 Sampling Type: Soil

Project Name:

RTFY 8021R

MARQUARDT FEDERAL #015H (06.11.20

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Project Number: Project Location: 2003 CIMAREX - EDDY CO NM

Sample ID: H - 2 (0-1.0') (H231837-04)

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2023	ND	1.90	95.1	2.00	22.7	
Toluene*	<0.050	0.050	04/20/2023	ND	2.02	101	2.00	23.2	
Ethylbenzene*	<0.050	0.050	04/20/2023	ND	2.07	103	2.00	22.2	
Total Xylenes*	<0.150	0.150	04/20/2023	ND	6.23	104	6.00	22.8	
Total BTEX	<0.300	0.300	04/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-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	04/19/2023	ND	400	100	400	3.92	
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	04/20/2023	ND	189	94.5	200	1.58	
DRO >C10-C28*	767	10.0	04/20/2023	ND	173	86.6	200	1.03	
EXT DRO >C28-C36	239	10.0	04/20/2023	ND					
Surrogate: 1-Chlorooctane	86.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.9	% 49.1-14	8						

Applyzod By: 1H /

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Celey D. Keine



### Analytical Results For:

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

Received: 04/17/2023

Sampling Date: 04/17/2023

Reported: 04/21/2023
Project Name: MARQUARDT FEDERAL #015H (06.11.20

Sampling Type: Soil

Project Number: 2003

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Project Location: CIMAREX - EDDY CO NM

### Sample ID: H - 2 (1.0'-1.5') (H231837-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2023	ND	1.90	95.1	2.00	22.7	
Toluene*	<0.050	0.050	04/20/2023	ND	2.02	101	2.00	23.2	
Ethylbenzene*	<0.050	0.050	04/20/2023	ND	2.07	103	2.00	22.2	
Total Xylenes*	<0.150	0.150	04/20/2023	ND	6.23	104	6.00	22.8	
Total BTEX	<0.300	0.300	04/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	32.0	16.0	04/19/2023	ND	400	100	400	3.92	
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	04/20/2023	ND	189	94.5	200	1.58	
DRO >C10-C28*	<10.0	10.0	04/20/2023	ND	173	86.6	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Applyzod By: 1H /

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Celey D. Keene



### Analytical Results For:

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

Received: 04/17/2023 Reported: 04/21/2023

MARQUARDT FEDERAL #015H (06.11.20

Project Number: 2003

Project Name:

Project Location: CIMAREX - EDDY CO NM Sampling Date: 04/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

### Sample ID: H - 2 (1.5'-2.0') (H231837-06)

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	04/20/2023	ND	1.90	95.1	2.00	22.7	
Toluene*	<0.050	0.050	04/20/2023	ND	2.02	101	2.00	23.2	
Ethylbenzene*	<0.050	0.050	04/20/2023	ND	2.07	103	2.00	22.2	
Total Xylenes*	<0.150	0.150	04/20/2023	ND	6.23	104	6.00	22.8	
Total BTEX	<0.300	0.300	04/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/19/2023	ND	400	100	400	3.92	
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	04/20/2023	ND	189	94.5	200	1.58	
DRO >C10-C28*	<10.0	10.0	04/20/2023	ND	173	86.6	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					
Surrogate: 1-Chlorooctane	97.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 04/17/2023 Reported: 04/21/2023 Sampling Date: 04/17/2023 Sampling Type: Soil

Project Name: MARQUARDT FEDERAL #015H (06.11.20 Project Number: 2003

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Project Location: CIMAREX - EDDY CO NM

### Sample ID: H - 3 (0-1.0') (H231837-07)

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	04/20/2023	ND	1.90	95.1	2.00	22.7	
Toluene*	<0.050	0.050	04/20/2023	ND	2.02	101	2.00	23.2	
Ethylbenzene*	<0.050	0.050	04/20/2023	ND	2.07	103	2.00	22.2	
Total Xylenes*	<0.150	0.150	04/20/2023	ND	6.23	104	6.00	22.8	
Total BTEX	<0.300	0.300	04/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-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	04/19/2023	ND	400	100	400	3.92	
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	04/20/2023	ND	189	94.5	200	1.58	
DRO >C10-C28*	<10.0	10.0	04/20/2023	ND	173	86.6	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					
Surrogate: 1-Chlorooctane	96.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keene



04/17/2023

Soil

### Analytical Results For:

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

Received: 04/17/2023 Reported:

04/21/2023 Sampling Type:

Analyzed By: JH/

Sampling Date:

Project Number: 2003

Project Location: CIMAREX - EDDY CO NM

Project Name: MARQUARDT FEDERAL #015H (06.11.20 Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

### Sample ID: H - 3 (1.0'-1.5') (H231837-08)

BTEX 8021B

	9,	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2023	ND	1.90	95.1	2.00	22.7	
Toluene*	<0.050	0.050	04/20/2023	ND	2.02	101	2.00	23.2	
Ethylbenzene*	<0.050	0.050	04/20/2023	ND	2.07	103	2.00	22.2	
Total Xylenes*	<0.150	0.150	04/20/2023	ND	6.23	104	6.00	22.8	
Total BTEX	<0.300	0.300	04/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/19/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/20/2023	ND	189	94.5	200	1.58	
DRO >C10-C28*	<10.0	10.0	04/20/2023	ND	173	86.6	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					
Surrogate: 1-Chlorooctane	96.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celeg D. Keine



### Analytical Results For:

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

Received: 04/17/2023 Reported: 04/21/2023

04/21/2023 Sampling Type: Soil

Project Name: MARQUARDT FEDERAL #015H (06.11.20 Project Number: 2003

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 04/17/2023
Sampling Type: Soil

Sampling Condition:

Sample Received By:

Cool & Intact Shalyn Rodriguez

## Sample ID: H - 3 (1.5'-2.0') (H231837-09)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2023	ND	1.90	95.1	2.00	22.7	
Toluene*	<0.050	0.050	04/20/2023	ND	2.02	101	2.00	23.2	
Ethylbenzene*	<0.050	0.050	04/20/2023	ND	2.07	103	2.00	22.2	
Total Xylenes*	<0.150	0.150	04/20/2023	ND	6.23	104	6.00	22.8	
Total BTEX	<0.300	0.300	04/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/19/2023	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/20/2023	ND	189	94.5	200	1.58	
DRO >C10-C28*	<10.0	10.0	04/20/2023	ND	173	86.6	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					
Surrogate: 1-Chlorooctane	96.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey D. Keene

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: 04/17/2023 Reported: 04/21/2023

04/21/2023 Sam MARQUARDT FEDERAL #015H (06.11.20 Sam

Project Number: 2003

Project Name:

RTFY 8021R

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 04/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: H - 5 (0-0.5') (H231837-10)

Result <0.050 <0.050	Reporting Limit 0.050	Analyzed 04/20/2023	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050		04/20/2023	ND					
	0.050		טא	1.90	95.1	2.00	22.7	
	0.050	04/20/2023	ND	2.02	101	2.00	23.2	
<0.050	0.050	04/20/2023	ND	2.07	103	2.00	22.2	
<0.150	0.150	04/20/2023	ND	6.23	104	6.00	22.8	
<0.300	0.300	04/20/2023	ND					
103 9	% 71.5-13	4						
mg/	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
208	16.0	04/19/2023	ND	448	112	400	7.41	
mg/	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	04/20/2023	ND	189	94.5	200	1.58	
<10.0	10.0	04/20/2023	ND	173	86.6	200	1.03	
<10.0	10.0	04/20/2023	ND					
99.7	% 48.2-13	4						
111 9	% 49.1-14	8						
	<0.300  103 : mg/ Result 208 mg/ Result <10.0 <10.0 <99.7	<0.150 0.150 <0.300 0.300  103	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150

Applyzod By: 1H /

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Celey D. Keene



### Analytical Results For:

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

Received: 04/17/2023 Reported: 04/21/2023

MARQUARDT FEDERAL #015H (06.11.20

Project Number: 2003

Project Name:

Project Location: CIMAREX - EDDY CO NM Sampling Date: 04/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

### Sample ID: H - 6 (0-0.5') (H231837-11)

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	04/20/2023	ND	1.97	98.7	2.00	2.01	
Toluene*	<0.050	0.050	04/20/2023	ND	2.09	105	2.00	2.18	
Ethylbenzene*	<0.050	0.050	04/20/2023	ND	2.09	104	2.00	1.36	
Total Xylenes*	<0.150	0.150	04/20/2023	ND	6.50	108	6.00	0.170	
Total BTEX	<0.300	0.300	04/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/19/2023	ND	448	112	400	7.41	
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	04/20/2023	ND	189	94.5	200	1.58	
DRO >C10-C28*	11.0	10.0	04/20/2023	ND	173	86.6	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					
Surrogate: 1-Chlorooctane	97.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 04/17/2023 Reported: 04/21/2023

MARQUARDT FEDERAL #015H (06.11.20

Project Name: Project Number: 2003

Project Location: CIMAREX - EDDY CO NM Sampling Date: 04/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

### Sample ID: H - 7 (0-0.5') (H231837-12)

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	04/20/2023	ND	1.97	98.7	2.00	2.01	
Toluene*	<0.050	0.050	04/20/2023	ND	2.09	105	2.00	2.18	
Ethylbenzene*	<0.050	0.050	04/20/2023	ND	2.09	104	2.00	1.36	
Total Xylenes*	<0.150	0.150	04/20/2023	ND	6.50	108	6.00	0.170	
Total BTEX	<0.300	0.300	04/20/2023	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	144	16.0	04/19/2023	ND	448	112	400	7.41	
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	04/20/2023	ND	189	94.5	200	1.58	
DRO >C10-C28*	<10.0	10.0	04/20/2023	ND	173	86.6	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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### **Notes and Definitions**

QR-04 The RPD for the BS/BSD was outside of historical limits.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celeg D. Freene

# Chain of Custody

			**	H-5 (0-0 5")	1-3 (1.5'-2 0")	1-3 (1.0'-1.5')	H_3 (0_1 0	H-2 (1.5'-2 0')	H-2 (1-0-1.0)	H_2 (0_1 0')	H_1 (1.0-1.3)	11 (0-1.0)	nple Identification	iners:	stody Seals:	tody Seals:	ntact:	RECEIPT		Name:	cation	mber:	me:	1	ZIT.			Name: (	anager: /	
	R				3 3	55		25	5	)	מין	5	cation		Yes	Yes	(7				Edd		Marquardt	432-813-8988	INIMINIO, IX 19101	Aidland TV	310 W Wall St Ste 500	Carmona Resources	Ashton Thielke	
1	elinquished b		4/1//2023	4/1///2020	4/1//2023	4/17/2023	4/1//2023	4/1//2023	4/1//2023	4/1//2023	4/1//2023	4/1//2023	Date		No N/A	E	Yes No	Temp Blank:		GPJ	Eddy County, New Mexico	2003	Federal #015		10/6/	20204	St Ste 500	sources	ke	
	Relinquished by: (Signature)												Time	Corrected Temperature:	Temperature Reading:	Correction Factor:	Thermometer ID:	Yes (No)	)	THE CANON	Mexico		Marquardt Federal #015H (06.11.2016)						7.	
			×	×	×	×	×	×	×	×	×	×	Soil	perature:	eading:	ion:		Wet Ice:		Due Date.	Due Date:	☑ Routine	Tu	Ema						
													Water	4.62	26.00	-0.6	= 3	Yes	)	Normal	N N	□ Rush	Turn Around	Email: laci.luig@coterra.com ashton.thielke@coterra.com	City, State ZIP	Address:	Company Name		Bill to: (if different)	
		*	G	G	G	G	G	G	G	G	G	G	Grab/ Comp	1	~	30		No.		mai	-			@coterra	te ZIP:		y Name:		different)	
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Da		V	×	×	×	×	×	×	×	×	×	×	TPH			oride	_		MR	O)	+	-		elke@cc	Midland, TX 79701	larienfield	Cimarex Energy	C.		Cliam of custody
Spodeia	Rece																					ANALISIS KE	ANALYSIS	erra.com		600 N Marienfield St, Suite 600				, and the second second
mey	Received by: (Signature)	:																				REQUEST		Deliverables: EDD	Reporting:Level III		Program: UST/PST PRP	Work		Work Order No:
Uater I ime	Det di												NaOH+Ascorbic Acid: SAPC  Sample Comments	Zn Acetate+NaOH: Zn	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> . NaSO <sub>3</sub>	NaHSO <sub>4</sub> : NABIS	H <sub>3</sub> PO <sub>4</sub> : HP	H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub> NaOH: Na		Cool: Cool MeOH: Me	None: NO DI Water: H <sub>2</sub> O	Preservative Codes		ADaPT			rownfields RC perfund	Work Order Co.nments	Page1 of2	

# **Chain of Custody**

	A. S. S. S. S.		1				_		0	) _	-															
		Comments:							H-7 (0-0.5)	H-6 (0-0.5')	sample identification	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:
			,						0.5')	0.5')	tification					PT			Е		Marqua	432-813-8988	Midland, TX 79701	310 W Wa	Carmona	Ashton Thielke
	Relinquis				+	+			4/17/2023	4/17/2023	Date	-   (	Yes No N	No	Yes No	Temp Blank:		G	Eddy County, New Mexico	20	Marquardt Federal #015H (06.11.2016)	988	X 79701	310 W Wall St Ste 500	Carmona Resources	ielke
	hed by: (			+	$\perp$	$\perp$	L		2023	2023	ite		N/A Te			11		GPJ	New Me	2003	#015H (0			0		
	Relinquished by: (Signature)										Time	Corrected Temperature:	Temperature Reading:	Correction Factor:	Thermometer ID:	Yes (No			xico		6.11.2016)					
/									×	×	Soil	perature:	eading:	or:		Wet Ice:			Due Date:	☑ Routine	T.	Email:				
					+						Water	1	S.	Ó	1 2	(Yes			N.	□ Rush	Turn Around	ail: laci.lui	City, State ZIP:	Address:	Compa	Bill to:
1									G	G	Comp	Carl Carl	2 B. C	50	- 1	No			Normal			laci.luig@coterra.com ashton.thielke@coterra.com	ate ZIP:	S:	Company Name:	Bill to: (if different)
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	Date/Time		$\forall$	+				+	×	×	Т	PH 801	_	TEX 8			- MR	tO)	+	-		nton.thielk	Midland, TX 79701	600 N Marienfield St, Suite 600	Cimarex Energy	Laci Luig
Soa								1	×	×			Cł	lorid	e 45	00			1			e@coter	X 79701	ienfield St	nergy	
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			1	$^{\pm}$			1												+			ADaPT 🗆	II ST/UST	[	rowr	k Order
											Sam	NaOH+As	Zn Acetate	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	אוקרטק. חד	11 <sub>2</sub> 30 <sub>4</sub> . 11 <sub>2</sub>	HCL: HC	Cool: Cool	None: NO	rie				,	fields	Work Order Comments
Calc	Date										Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	NaSO <sub>3</sub>	5	,				LIESELAGINE COUES		7	RRP		n	S
Caley I lille	Timo										ments	: SAPC	2			NaOH: Na	HNO3: HN	MeOH: Me	DI Water: H <sub>2</sub> O	Codes			Level IV		nerfund	
													_						20							

Work Order No: 123/837 Page 16 of 16



May 19, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: MARQUARDT FEDERAL #015H (06.11.2016)

Enclosed are the results of analyses for samples received by the laboratory on 05/18/23 16:55.

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/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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)

Celey D. Keene

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. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Received: 05/18/2023 Reported: 05/19/2023

MARQUARDT FEDERAL #015H (06.11.20

Project Name: MARC Project Number: 2003

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: CS - 1 (1.5') (H232533-01)

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	05/19/2023	ND	2.43	122	2.00	6.28	
Toluene*	<0.050	0.050	05/19/2023	ND	2.41	120	2.00	6.93	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.35	118	2.00	7.24	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.14	119	6.00	7.26	
Total BTEX	<0.300	0.300	05/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/19/2023	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	05/19/2023	ND	162	81.2	200	2.85	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	172	86.0	200	0.193	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					
Surrogate: 1-Chlorooctane	94.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.0	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



05/18/2023

Tamara Oldaker

### Analytical Results For:

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

Received: 05/18/2023 Reported: 05/19/2023

05/19/2023 Sampling Type: Soil
MARQUARDT FEDERAL #015H (06.11.20 Sampling Condition: Cool & Intact

Sampling Date:

Sample Received By:

Project Number: 2003

Project Name:

BTEX 8021B

Project Location: CIMAREX - EDDY CO NM

Sample ID: CS - 2 (1.5') (H232533-02)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2023	ND	2.43	122	2.00	6.28	
Toluene*	<0.050	0.050	05/19/2023	ND	2.41	120	2.00	6.93	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.35	118	2.00	7.24	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.14	119	6.00	7.26	
Total BTEX	<0.300	0.300	05/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/19/2023	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	05/19/2023	ND	162	81.2	200	2.85	
DRO >C10-C28*	19.2	10.0	05/19/2023	ND	172	86.0	200	0.193	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					
Surrogate: 1-Chlorooctane	95.6	% 48.2-13	4						

Analyzed By: JH

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

91.5 %

49.1-148



### Analytical Results For:

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

Received: 05/18/2023 Reported: 05/19/2023

MARQUARDT FEDERAL #015H (06.11.20

Project Number: 2003

Project Name:

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

## Sample ID: CS - 3 (1.5') (H232533-03)

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	05/19/2023	ND	2.43	122	2.00	6.28	
Toluene*	<0.050	0.050	05/19/2023	ND	2.41	120	2.00	6.93	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.35	118	2.00	7.24	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.14	119	6.00	7.26	
Total BTEX	<0.300	0.300	05/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/19/2023	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	05/19/2023	ND	162	81.2	200	2.85	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	172	86.0	200	0.193	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					
Surrogate: 1-Chlorooctane	124	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

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

Received: 05/18/2023 Reported: 05/19/2023

MARQUARDT FEDERAL #015H (06.11.20

Project Number: 2003

Project Name:

RTFY 8021R

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: CS - 4 (1.5') (H232533-04)

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2023	ND	2.43	122	2.00	6.28	
Toluene*	<0.050	0.050	05/19/2023	ND	2.41	120	2.00	6.93	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.35	118	2.00	7.24	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.14	119	6.00	7.26	
Total BTEX	<0.300	0.300	05/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/19/2023	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	05/19/2023	ND	162	81.2	200	2.85	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	172	86.0	200	0.193	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

Applyzod By: 14

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### Analytical Results For:

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

Received: 05/18/2023 Reported: 05/19/2023

MARQUARDT FEDERAL #015H (06.11.20

Project Number: 2003

Project Name:

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

## Sample ID: CS - 5 (1.5') (H232533-05)

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	05/19/2023	ND	2.43	122	2.00	6.28	
Toluene*	<0.050	0.050	05/19/2023	ND	2.41	120	2.00	6.93	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.35	118	2.00	7.24	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.14	119	6.00	7.26	
Total BTEX	<0.300	0.300	05/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/19/2023	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	05/19/2023	ND	162	81.2	200	2.85	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	172	86.0	200	0.193	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.1	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/18/2023 Reported: 05/19/2023

05/19/2023 Sampling T MARQUARDT FEDERAL #015H (06.11.20 Sampling C

Project Name: MARG Project Number: 2003

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: CS - 6 (1.5') (H232533-06)

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	05/19/2023	ND	2.43	122	2.00	6.28	
Toluene*	<0.050	0.050	05/19/2023	ND	2.41	120	2.00	6.93	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.35	118	2.00	7.24	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.14	119	6.00	7.26	
Total BTEX	<0.300	0.300	05/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 :	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/19/2023	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	05/19/2023	ND	162	81.2	200	2.85	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	172	86.0	200	0.193	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					
Surrogate: 1-Chlorooctane	126	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager

\*=Accredited Analyte



### Analytical Results For:

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

Received: 05/18/2023 Reported: 05/19/2023

05/19/2023 MARQUARDT FEDERAL #015H (06.11.20

Project Name: MARG Project Number: 2003

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

## Sample ID: CS - 7 (1.5') (H232533-07)

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	05/19/2023	ND	2.43	122	2.00	6.28	
Toluene*	<0.050	0.050	05/19/2023	ND	2.41	120	2.00	6.93	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.35	118	2.00	7.24	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.14	119	6.00	7.26	
Total BTEX	<0.300	0.300	05/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/19/2023	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	05/19/2023	ND	162	81.2	200	2.85	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	172	86.0	200	0.193	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					
Surrogate: 1-Chlorooctane	118	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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### Analytical Results For:

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

05/18/2023 05/19/2023

MARQUARDT FEDERAL #015H (06.11.20

Project Number: 2003

Received:

Reported:

Project Name:

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: CS - 8 (1.5') (H232533-08)

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	05/19/2023	ND	2.43	122	2.00	6.28	
Toluene*	<0.050	0.050	05/19/2023	ND	2.41	120	2.00	6.93	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.35	118	2.00	7.24	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.14	119	6.00	7.26	
Total BTEX	<0.300	0.300	05/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/19/2023	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	05/19/2023	ND	162	81.2	200	2.85	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	172	86.0	200	0.193	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					
Surrogate: 1-Chlorooctane	119 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 05/18/2023 Reported:

05/19/2023 Sampling Type: MARQUARDT FEDERAL #015H (06.11.20

Project Name: Project Number: 2003

Project Location: CIMAREX - EDDY CO NM Sampling Date: 05/18/2023

Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

# Sample ID: SW - 1 (1.5') (H232533-09)

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	05/19/2023	ND	2.43	122	2.00	6.28	
Toluene*	<0.050	0.050	05/19/2023	ND	2.41	120	2.00	6.93	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.35	118	2.00	7.24	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.14	119	6.00	7.26	
Total BTEX	<0.300	0.300	05/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/19/2023	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	05/19/2023	ND	162	81.2	200	2.85	
DRO >C10-C28*	18.3	10.0	05/19/2023	ND	172	86.0	200	0.193	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					
Surrogate: 1-Chlorooctane	122 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/18/2023 Reported: 05/19/2023

05/19/2023 Sampling Type: Soil MARQUARDT FEDERAL #015H (06.11.20 Sampling Condition: Coo

Sampling Date:

Project Name: MARG Project Number: 2003

Project Location: CIMAREX - EDDY CO NM

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

05/18/2023

### Sample ID: SW - 2 (1.5') (H232533-10)

BTEX 8021B

DILX OUZID	mg/kg Andry2cu								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2023	ND	2.43	122	2.00	6.28	
Toluene*	<0.050	0.050	05/19/2023	ND	2.41	120	2.00	6.93	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.35	118	2.00	7.24	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.14	119	6.00	7.26	
Total BTEX	<0.300	0.300	05/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/19/2023	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	05/19/2023	ND	162	81.2	200	2.85	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	172	86.0	200	0.193	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					
Surrogate: 1-Chlorooctane	116	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

Analyzed By: JH

# Cardinal Laboratories \*=Accredited Analyte

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05/18/2023

Soil

### Analytical Results For:

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

Received: 05/18/2023 Reported:

05/19/2023 Sampling Type:

Analyzed By: JH

Sampling Date:

Project Name: MARQUARDT FEDERAL #015H (06.11.20 Sampling Condition: Cool & Intact Project Number: 2003 Sample Received By: Tamara Oldaker

Project Location: CIMAREX - EDDY CO NM

### Sample ID: SW - 3 (1.5') (H232533-11)

BTEX 8021B

DIEX GOZID	11197	ng .	Allulyzo	.u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2023	ND	2.43	122	2.00	6.28	
Toluene*	<0.050	0.050	05/19/2023	ND	2.41	120	2.00	6.93	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.35	118	2.00	7.24	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.14	119	6.00	7.26	
Total BTEX	<0.300	0.300	05/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/19/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	162	81.2	200	2.85	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	172	86.0	200	0.193	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					
Surrogate: 1-Chlorooctane	129	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/18/2023 Reported: 05/19/2023

05/19/2023 MARQUARDT FEDERAL #015H (06.11.20

Project Number: 2003

Project Name:

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: SW - 4 (1.5') (H232533-12)

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	05/19/2023	ND	2.43	122	2.00	6.28	
Toluene*	<0.050	0.050	05/19/2023	ND	2.41	120	2.00	6.93	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.35	118	2.00	7.24	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.14	119	6.00	7.26	
Total BTEX	<0.300	0.300	05/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/19/2023	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	05/19/2023	ND	162	81.2	200	2.85	
DRO >C10-C28*	20.6	10.0	05/19/2023	ND	172	86.0	200	0.193	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					
Surrogate: 1-Chlorooctane	130 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/18/2023 Reported: 05/19/2023 Sampling Date: 05/18/2023
Sampling Type: Soil

Project Name:

BTEX 8021B

MARQUARDT FEDERAL #015H (06.11.20

Sampling Condition: Cool & Intact

Project Number: 2003

Sample Received By: Tamara Oldaker

Project Location: CIMAREX - EDDY CO NM

Sample ID: SW - 5 (1.5') (H232533-13)

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2023	ND	2.43	122	2.00	6.28	
Toluene*	<0.050	0.050	05/19/2023	ND	2.41	120	2.00	6.93	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.35	118	2.00	7.24	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.14	119	6.00	7.26	
Total BTEX	<0.300	0.300	05/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/19/2023	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	05/19/2023	ND	162	81.2	200	2.85	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	172	86.0	200	0.193	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Analyzed By: JH

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### Analytical Results For:

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

Received: 05/18/2023 Reported: 05/19/2023

MARQUARDT FEDERAL #015H (06.11.20

Project Name: MARG Project Number: 2003

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: SW - 6 (1.5') (H232533-14)

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	05/19/2023	ND	2.43	122	2.00	6.28	
Toluene*	<0.050	0.050	05/19/2023	ND	2.41	120	2.00	6.93	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.35	118	2.00	7.24	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	7.14	119	6.00	7.26	
Total BTEX	<0.300	0.300	05/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/19/2023	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	05/19/2023	ND	162	81.2	200	2.85	
DRO >C10-C28*	14.0	10.0	05/19/2023	ND	172	86.0	200	0.193	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					
Surrogate: 1-Chlorooctane	126	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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### Analytical Results For:

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

Received: 05/18/2023 Reported: 05/19/2023

MARQUARDT FEDERAL #015H (06.11.20

Project Name: MARG Project Number: 2003

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SW - 7 (1.5') (H232533-15)

BTEX 8021B

DIEX GOZID	ıııg,	K9	Allulyzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/19/2023	ND	2.06	103	2.00	6.12	
Toluene*	<0.050	0.050	05/19/2023	ND	2.11	106	2.00	5.62	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.03	102	2.00	5.91	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.32	105	6.00	5.92	
Total BTEX	<0.300	0.300	05/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/19/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	162	81.2	200	2.85	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	172	86.0	200	0.193	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					
Surrogate: 1-Chlorooctane	131 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

Analyzed By: JH/

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

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

Received: 05/18/2023 Reported: 05/19/2023

MARQUARDT FEDERAL #015H (06.11.20

Project Number: 2003

Project Name:

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: SW - 8 (1.5') (H232533-16)

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	05/19/2023	ND	2.06	103	2.00	6.12	
Toluene*	<0.050	0.050	05/19/2023	ND	2.11	106	2.00	5.62	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.03	102	2.00	5.91	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.32	105	6.00	5.92	
Total BTEX	<0.300	0.300	05/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/19/2023	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	05/19/2023	ND	162	81.2	200	2.85	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	172	86.0	200	0.193	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					
Surrogate: 1-Chlorooctane	122	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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# Analytical Results For:

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

Received: 05/18/2023 Reported: 05/19/2023

MARQUARDT FEDERAL #015H (06.11.20

Project Number: 2003

Project Name:

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: SW - 9 (1.5') (H232533-17)

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	05/19/2023	ND	2.06	103	2.00	6.12	
Toluene*	<0.050	0.050	05/19/2023	ND	2.11	106	2.00	5.62	
Ethylbenzene*	<0.050	0.050	05/19/2023	ND	2.03	102	2.00	5.91	
Total Xylenes*	<0.150	0.150	05/19/2023	ND	6.32	105	6.00	5.92	
Total BTEX	<0.300	0.300	05/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/19/2023	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	05/19/2023	ND	162	81.2	200	2.85	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	172	86.0	200	0.193	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					
Surrogate: 1-Chlorooctane	125	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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# Analytical Results For:

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

Received: 05/18/2023 Reported: 05/19/2023

05/19/2023 MARQUARDT FEDERAL #015H (06.11.20

Project Number: 2003

Project Name:

RTFY 8021R

Project Location: CIMAREX - EDDY CO NM

Sampling Date: 05/18/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

# Sample ID: SW - 10 (1.5') (H232533-18)

True Value QC 2.00 2.00 2.00 6.00	RPD 6.12 5.62 5.91 5.92	Qualifier
2.00 2.00	5.62 5.91	
2.00	5.91	
6.00	5.92	
True Value QC	RPD	Qualifier
400	3.77	
True Value QC	RPD	Qualifier
200	2.85	
200	0.193	

Applyzod By: 1H /

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### **Notes and Definitions**

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celey D. Keine

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4			07.	30/2	Comments:	SW-2 (1.5)						CS-4 (1.5')	CS-3 (1.5')	CS-2 (1.5')	CS-1 (1.5')	Sample ide	Sample Identification	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 ZIF.				Project Manager:			1	Page	
	1			,		(1.5)	(1.5)	(1.5)	(1.5')	(1.5')	(1.5')	(1.5')	(1.5')	(1.5')	(1.5')	- Constant	ntification		Yes	Yes	Ke				Eddy (		Marquardt Fe	432-813-8988	Ivildidid, i.v.	Midland TX 79701	310 W Wall St Ste 500	Carmona Resources	Ashton Thielke					
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		Relinquished by: (Signature)											3				Time	Corrected Temperature	Temperature Reading	Correction Factor:	Thermometer ID.	Yes No			exico		06.11.2016)											
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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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 234704

# **CONDITIONS**

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
6001 Deauville Blvd, Ste 300N	Action Number:
Midland, TX 79706	234704
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created	Condition	Condition
Ву		Date
bhall	Closure approved. Site will need to meet all the requirements of 19.15.29.13 NMAC when the area is no longer reasonably needed for production operations or for subsequent drilling operations.	8/4/2023