

CARMONA RESOURCES



SITE INFORMATION

Closure Report
Black River – John D. Forehand Road Crossing
Incident ID: nAPP2415878197
Eddy County, New Mexico
Unit H Sec 18 T24S R27E
32.21922°, -104.223181°

Point of Release:
Human error; Waste Management truck lost control on road and spilled drill cuttings
Release Date: 06.06.2024
Volume Released: 72 Barrels of Oil-Based Drilling Mud/Fluid
Volume Recovered: 72 Barrels of Oil-Based Drilling Mud/Fluid

CARMONA RESOURCES



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

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

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

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February 11, 2025

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

Re: Closure Report
Black River – John D. Forehand Road Crossing
Incident ID: nAPP2415878197
Cimarex Energy Co.
Site Location: Unit H, S18, T24S, R27E
(Lat 32.21922°, Long -104.223181°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Cimarex Energy Co. (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for the Black River – John D. Forehand Road Crossing. The site is located at 32.21922°, -104.223181° within Unit H, S18, T24S, R27E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the spill was discovered on June 6, 2024, caused by a waste management truck that lost control on John D. Forehand Road and spilled drill cuttings onto the shoulder of the road. It resulted in approximately seventy-two (72) barrels of drilling mud/fluid that was released, and seventy-two (72) barrels of drilling mud/fluid was recovered. The impacted area was in the pasture. Refer to Figure 3 for a spill overview. The Notice of Release 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, there is water sources are within a 0.50-mile radius of the location. The nearest identified well is approximately 0.52 miles Northwest of the site in S32, T24S, R26E and was last measured in 2022. The well has a reported depth to groundwater of 104.42' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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



4.0 Site Assessment Activities

On June 7, 2024, Carmona Resources, LLC personnel performed site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, six (6) sample points (S-1 through S-6) and seven (7) horizontal samples (H-1 through H-7) were advanced to depths ranging from the surface to 4.0' bgs. 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

On June 21, 2024, Carmona Resources, LLC 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 web portal on June 19, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The areas of S-2, S-3, & S-5 were excavated to a depth of 0.75' bgs. A total of seven (7) confirmation floor samples (CS-1 through CS-7) and eight (8) sidewall samples (SW-1 through SW-8) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA Method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 5.

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

6.0 Reclamation and Revegetation Activities

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. The entire area was contoured for optimal drainage and erosion control under strict supervision of the local landowner, Ms. Lisa Odgen. The area was reseeded and was planted with Desert Willow that would assist in erosion control alongside the river. The seed blend that will be utilized is a Bermuda Grass mix per the landowner's request. Approximately 1,325 square feet of contamination were remediated, resulting in 40 cubic yards of material being excavated and transported offsite for proper disposal.

A sample of the freshly excavated backfilled material was not collected at the time of backfill activities. On January 20, 2025, a review of the field activities for this project determined that a five-point composite sample needed to be collected from the backfilled material to be acceptable for NMAC 19.15.29.12/13. On January 20, 2025, Carmona Resources, LLC personnel were nearby this site and collected a five-point composite sample of the backfilled material. The composite sample was below the reclamation and regulatory requirements for TPH, BTEX, and chloride. Refer to Table 2.



7.0 Conclusions

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

Sincerely,

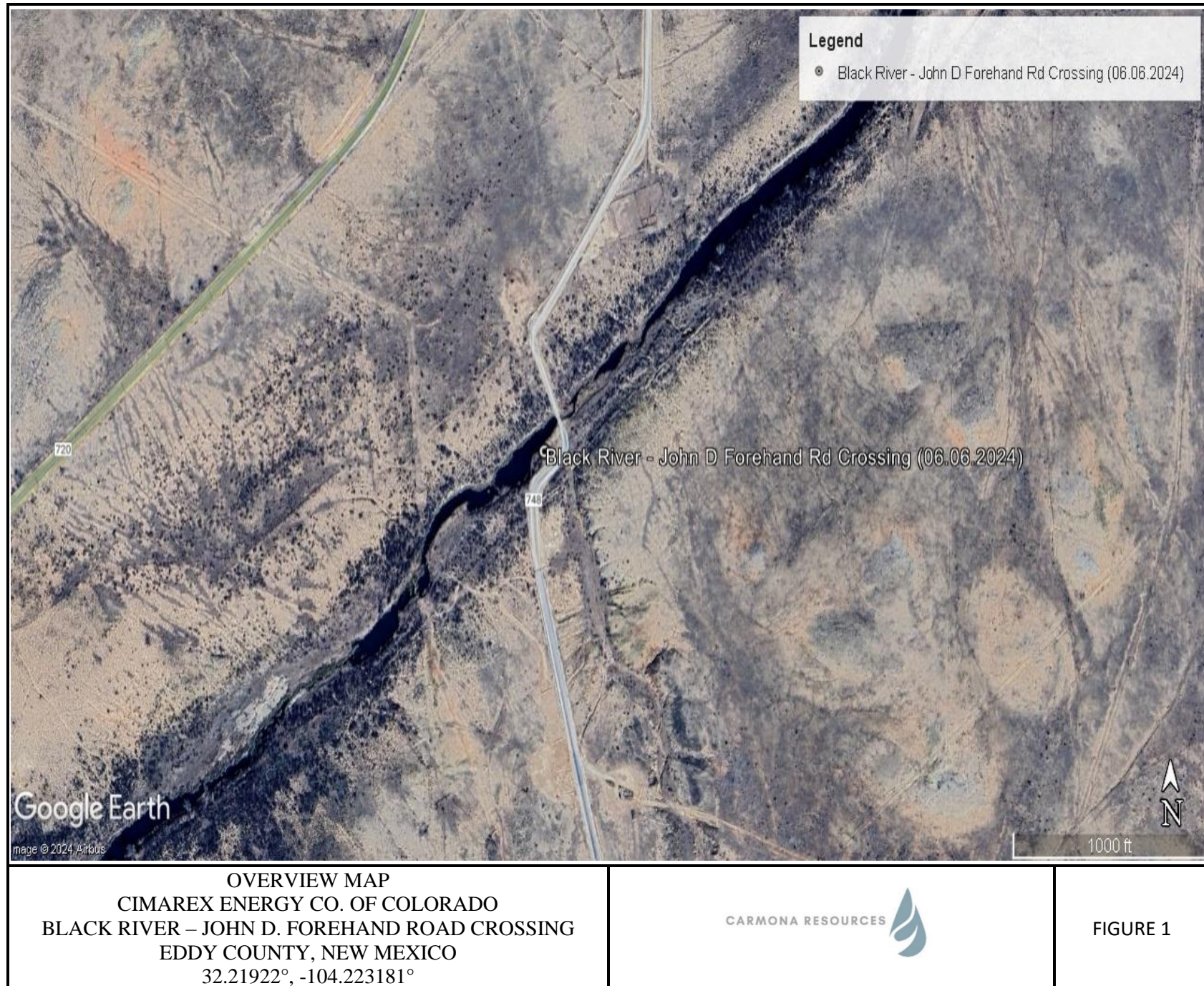
Carmona Resources, LLC

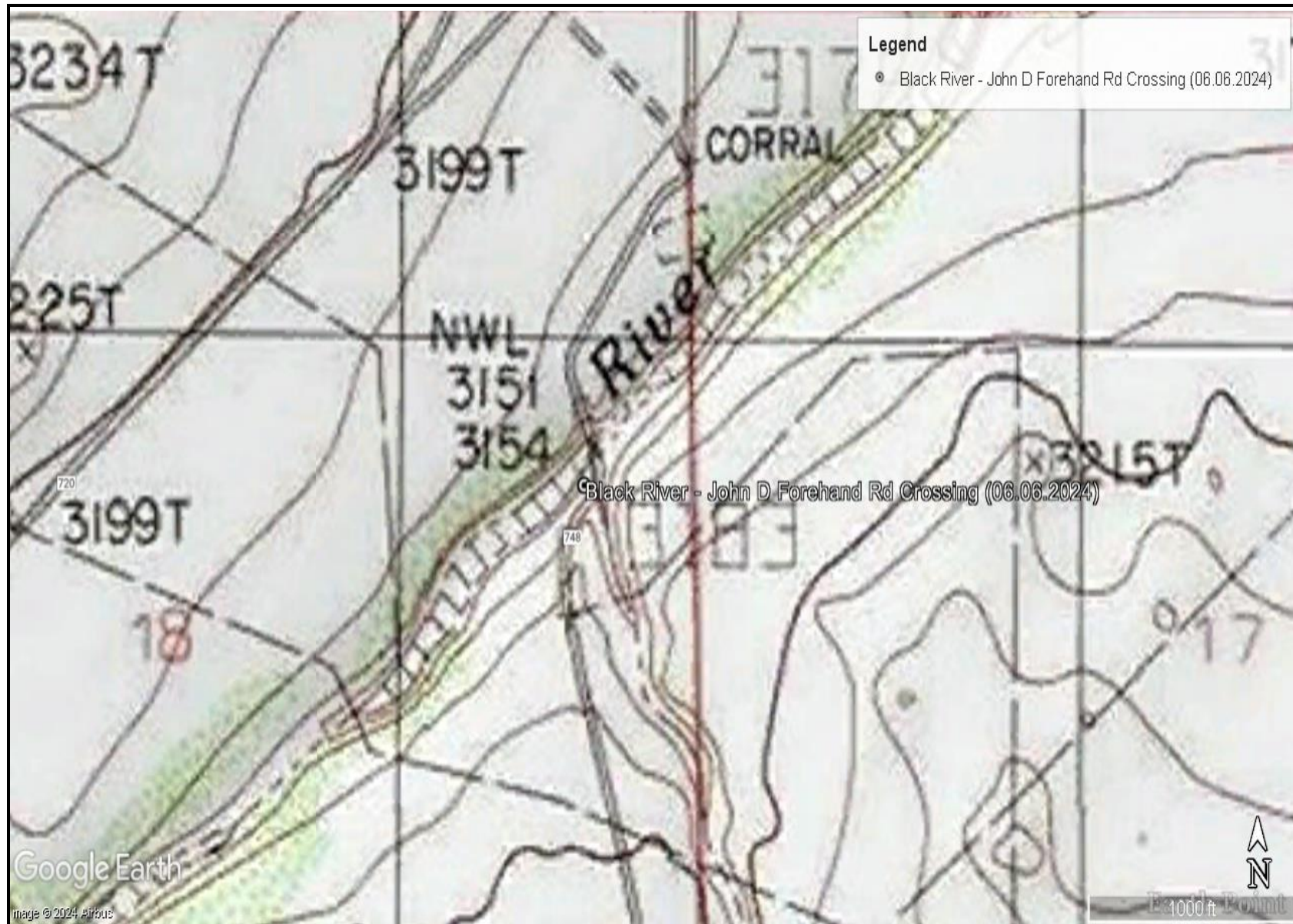
Ashton Thielke
Environmental Manager

FIGURES

CARMONA RESOURCES







TOPOGRAPHIC MAP
 CIMAREX ENERGY CO. OF COLORADO
 BLACK RIVER – JOHN D. FOREHAND ROAD CROSSING
 EDDY COUNTY, NEW MEXICO
 32.21922°, -104.223181°



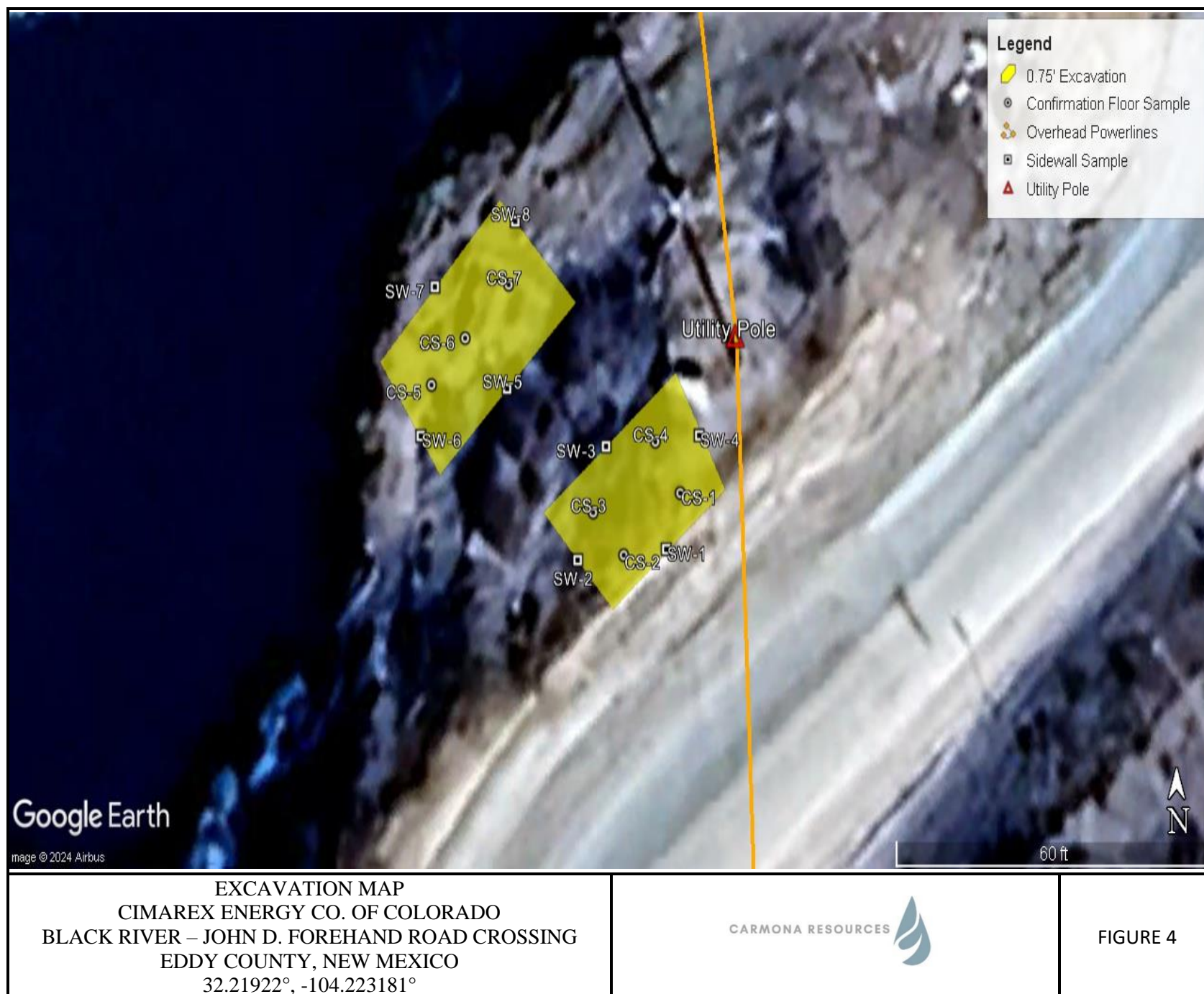
FIGURE 2



SAMPLE LOCATION MAP
CIMAREX ENERGY CO. OF COLORADO
BLACK RIVER – JOHN D. FOREHAND ROAD CROSSING
EDDY COUNTY, NEW MEXICO
32.21922°, -104.223181°



FIGURE 3





APPENDIX A

CARMONA RESOURCES



Table 1
Cimarex Energy Co.
Black River - John D Forehand Rd Crossing (06.06.2024)
Eddy County, New Mexico

Sample ID	Date	Depth (in-ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	6/7/2024	0-3"	<10.0	83.1	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
	"	6"	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
	"	1.0'	<10.0	16.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
S-2	6/7/2024	0-3"	<10.0	973	<10.0	973	<0.050	<0.050	<0.050	<0.150	<0.300	448
	"	6"	<10.0	229	<10.0	229	<0.050	<0.050	<0.050	<0.150	<0.300	176
	"	1.0'	<10.0	50.8	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
	"	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
	"	3.0'	<10.0	18.6	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
	"	4.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
S-3	6/7/2024	0-3"	<10.0	271	<10.0	271	<0.050	<0.050	<0.050	<0.150	<0.300	224
	"	6"	<10.0	296	<10.0	296	<0.050	<0.050	<0.050	<0.150	<0.300	224
	"	1.0'	<10.0	35.7	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
	"	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
	"	2.5'	<10.0	22.1	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
S-4	6/7/2024	0-3"	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	6"	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
S-5	6/7/2024	0-3"	<10.0	405	<10.0	405	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
	"	6"	<10.0	224	<10.0	224	<0.050	<0.050	<0.050	<0.150	<0.300	112
	"	1.0'	<10.0	30.9	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	2.0'	<10.0	19.1	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	2.5'	<10.0	87.7	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
S-6	6/7/2024	0-3"	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	6"	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(S) - Soil Sample

Removed

Table 1
Cimarex Energy Co.
Black River - John D Forehand Rd Crossing (06.06.2024)
Eddy County, New Mexico

Sample ID	Date	Depth (in-ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
H-1	6/7/2024	0-1'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
H-2	6/7/2024	0-1'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-3	6/7/2024	0-1'	<10.0	30.0	<10.0	30.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
H-4	6/7/2024	0-1'	<10.0	<10.0	97.7	97.7	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
H-5	6/7/2024	0-1'	<10.0	10.8	<10.0	10.8	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
H-6	6/7/2024	0-1'	<10.0	34.5	<10.0	34.5	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
H-7	6/7/2024	0-1'	<10.0	33.8	<10.0	33.8	<0.050	<0.050	<0.050	<0.150	<0.300	256
Regulatory Criteria^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons
ft - feet

(H) - Horizontal Sample

Table 2
Cimarex Energy Co.
Black River - John D Forehand Rd Crossing (06.06.2024)
Eddy County, New Mexico

Sample ID	Date	Depth (in-ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	6/21/2024	0.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-2	6/21/2024	0.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-3	6/21/2024	0.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
CS-4	6/21/2024	0.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
CS-5	6/21/2024	0.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-6	6/21/2024	0.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-7	6/21/2024	0.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
Regulatory Criteria ^A						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

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

Table 2
Cimarex Energy Co.
Black River - John D Forehand Rd Crossing (06.06.2024)
Eddy County, New Mexico

Sample ID	Date	Depth (in-ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
SW-1	6/21/2024	0.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-2	6/21/2024	0.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-3	6/21/2024	0.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-4	6/21/2024	0.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-5	6/21/2024	0.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-6	6/21/2024	0.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-7	6/21/2024	0.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-8	6/21/2024	0.75'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
Backfill Material	1/20/2025	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
Regulatory CriteriaA						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed
A – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(SW) - Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Cimarex Energy Co.

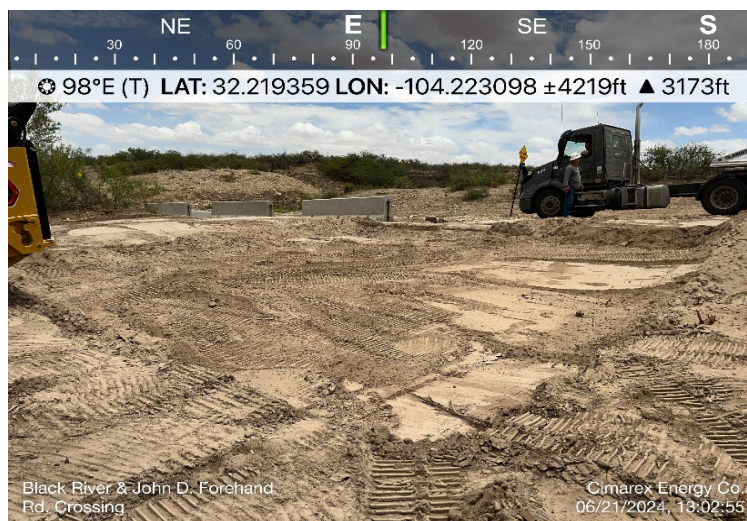
Photograph No. 1

Facility: John D Forehand Rd Crossing
(06.06.2024)

County: Eddy County, New Mexico

Description:

View East, area of CS-1 through CS-4.



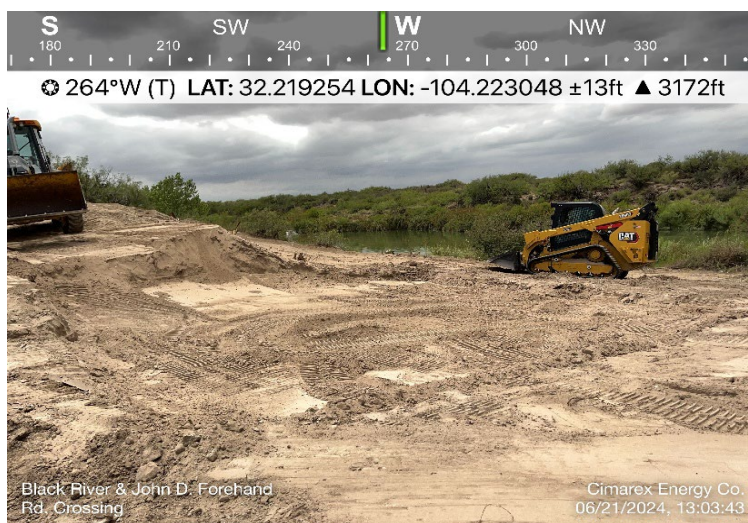
Photograph No. 2

Facility: John D Forehand Rd Crossing
(06.06.2024)

County: Eddy County, New Mexico

Description:

View West, area of CS-1 through CS-4.



Photograph No. 3

Facility: John D Forehand Rd Crossing
(06.06.2024)

County: Eddy County, New Mexico

Description:

View West, area of CS-5 through CS-7.



PHOTOGRAPHIC LOG

Cimarex Energy Co.

Photograph No. 4

Facility: John D Forehand Rd Crossing
(06.06.2024)

County: Eddy County, New Mexico

Description:

View Northwest, area of CS-5 through CS-7.



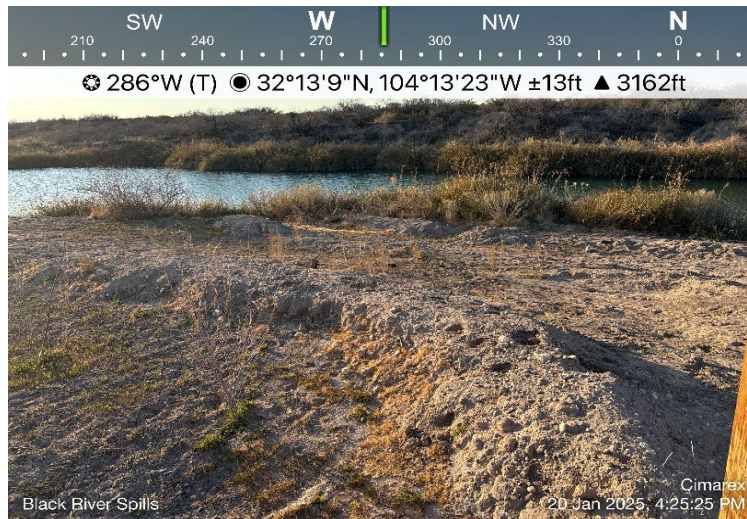
Photograph No. 5

Facility: John D Forehand Rd Crossing
(06.06.2024)

County: Eddy County, New Mexico

Description:

View West, backfilled and reseeded area with berms added for erosion control.



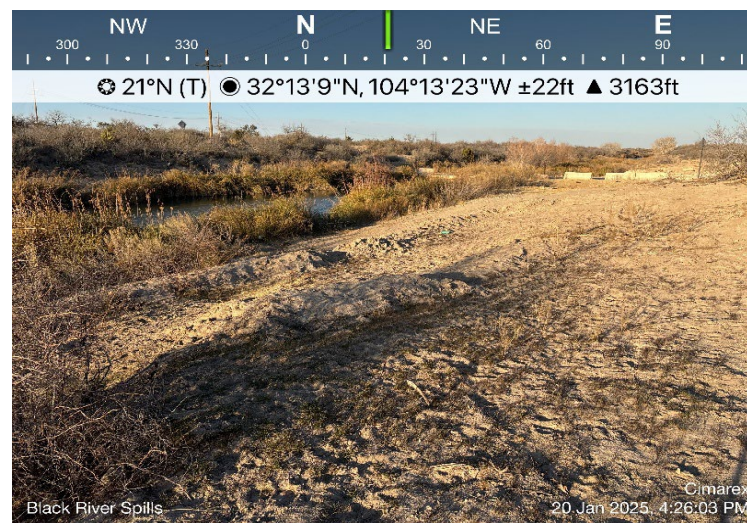
Photograph No. 6

Facility: John D Forehand Rd Crossing
(06.06.2024)

County: Eddy County, New Mexico

Description:

View North, backfilled and reseeded area with berms added for erosion control.



APPENDIX C

CARMONA RESOURCES



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

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

QUESTIONS

Action 351825

QUESTIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 351825
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source <i>Please answer all the questions in this group.</i>	
Site Name	Black River - John D Forehand Rd Crossing
Date Release Discovered	06/06/2024
Surface Owner	Private

Incident Details <i>Please answer all the questions in this group.</i>	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	Yes
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	Yes

Nature and Volume of Release <i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Human Error Transport Drilling Mud/Fluid Released: 72 BBL Recovered: 72 BBL Lost: 0 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	RBP Hauling was contracted by Waste Management to haul drill cuttings from the White City 8-17-20 Fed Com 1H. For reasons unknown at the time, the truck hauling an estimated 15 cubic yards of drill cuttings flipped going down towards the Black River crossing. All of the cuttings in the roll-off box released onto the road way and the Black River bank. Upon arriving onsite, Cimarex personnel deployed oil sorbent booms into the water. An emergency one-call was placed and a surface scrape was performed to remove impacted soils and brush along the road and river bank. All impact was hauled to Waste Management disposal. There appears to be no signs of cuttings entering the waterway or impact to the waterway at this time. An environmental consultant will be contacted and soil remediation will take place in the coming weeks.

District I

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

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

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

QUESTIONS, Page 2

Action 351825

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 351825
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (b) may with reasonable probability reach a watercourse; (4) a release of a volume that may with reasonable probability be detrimental to fresh water.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph 4 of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

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

ACKNOWLEDGMENTS

Action 351825

ACKNOWLEDGMENTS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 351825
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment.
<input checked="" type="checkbox"/>	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
<input checked="" type="checkbox"/>	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 351825

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 351825
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
lluig	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	6/6/2024



Waste Management Energy Services
(Formerly Petro Waste LP)
153 TreeLine Park, Ste 100, San Antonio, TX 78209
Phone: (210) 782-9534
Email: PWEAccountsReceivable@wm.com

MANIFEST #
WT 1076965

Part 1 - Generator

COMPANY TRACKING #: PX 233863 DATE: 6/5/24
COMPANY NAME: CDI PHONE: _____
LEASE: W.C. 81720 WELL #: 1H FIELD NAME: _____
AFER: 026822016 API#: 20015548606
WELL NAME: CDP 150 REG #: 150
COUNTY & STATE ORIGIN: CDP, NM

QUANTITY: _____ BBLs 15 YARDS
WASTE ORIGIN: ☐ Production
☒ Drilling ☐ Environmental
☐ Completions ☐ Commercial/Reclamation*

Waste Description (Check only one box): ☒ RCRA Exempt ☐ RCRA Non-Exempt*

<input type="checkbox"/> Water Based Cuttings	<input type="checkbox"/> Water Based Mud	<input type="checkbox"/> Contaminated Soil	<input type="checkbox"/> Produced Sands
<input checked="" type="checkbox"/> Oil Based Cuttings	<input type="checkbox"/> Oil Based Mud	<input type="checkbox"/> Non-injectable Fluids	<input type="checkbox"/> PII Liners
<input type="checkbox"/> Other:		<input type="checkbox"/> Tank Bottoms*	<input type="checkbox"/> Injectable Fluids

*RCRA Non-Exempt Waste and/or Commercial/Reclamation Facility Wastes will require analytical and pre-approval from WM prior to shipment. The reverse side of this manifest includes a summary of the RCRA Hazardous Waste exclusion for Exploration and Production wastes and applicable regulatory requirements under the Texas Railroad Commission.

Authorize Washout? Yes ☐ No ☒ PARTY TO BE INVOICED (CIRCLE ONE):
Generator Solids Control Group Transporter

CERTIFICATION: I hereby certify that the above-described waste materials are generated only in Texas and are fully subject to the jurisdiction of the Railroad Commission of Texas (RRC). All waste shipped under this profile is Non-Hazardous due to regulatory exclusion under 40 CFR 261.43(c)(3), Subtitle C of the Resource Conservation and Recovery Act (RCRA) and has been fully and accurately described, classified, and packaged for transportation according to applicable laws and regulations. All information contained herein, and any/all attached documents are a true, complete, and accurate description of the waste material being offered for disposal and all necessary information has been provided to establish compliance with the RRC oil and gas regulations. The waste is not an RRC Oil and Gas NORM Waste (i.e., waste does not exceed 50 picocuries per gram of Radium-226 combined with Radium-228, or 150 picocuries per gram of any other radionuclide). Any change in information regarding the nature or character of the material offered for disposal (i.e., changes in the process or new analytical data) will be identified by the Generator or Authorized Agent and will be disclosed to Waste Management prior to providing the waste material to Waste Management.

GENERATOR: Ronnie Fulford SOLIDS CONTROL: _____
SIGNATURE: Ronnie Fulford (Authorized Agent's Printed Name and Title) (Authorized Agent's Printed Name and Company Name)
GENERATOR EMAIL: _____ SIGNATURE: _____
GENERATOR PHONE #: 956-283-7015 SOLID CNTL EMAIL: _____
SOLID CNTL PHONE #: _____

Part 2 - Transporter

TO BE COMPLETED BY THE TRANSPORTER WHILE GENERATOR IS PRESENT

TRANSPORTER'S COMPANY NAME: RBP LINER?: ☐ Yes ☐ No
ADDRESS: Odessa YARD #: _____ WHP #: 7862 TRUCK #: 227
DATE RECEIVED: _____ TIME RECEIVED: _____ AM ☐ PM ☐ TICKET #: 3341 ROLL OFF BIN#: _____ TRAILER #: 2550
DISPATCHER NAME: Robert DISPATCHER PHONE #: 4328132417

The following statement must be signed by the truck driver prior to unloading at disposal facility: "I CERTIFY THAT NO OTHER MATERIAL HAS BEEN PLACED IN THIS VESSEL SINCE LOADING OF MATERIAL DESCRIBED IN PART 1 ABOVE. I (TRANSPORTER) CERTIFY THAT THE INFORMATION GIVEN ON THIS MANIFEST IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE."

DRIVER: Chris Giam DRIVER'S SIGNATURE: [Signature]
(Driver's Name Printed)

Part 3 - Disposal Facility

TO BE COMPLETED BY WASTE MANAGEMENT EMPLOYEES

FACILITY RECEIVED AT (Check One): DATE: _____ TIME IN: _____ AM / PM
☐ Big Lake Facility (STF-0125): 275 E H Bar Rd, Big Lake, TX 79932
☐ Deep Six Facility (STF-0146): 435 U.S. Highway 280 South, Pecos, TX 79772
☐ Howard County Facility (STF-082): 11104 Interstate Hwy 20 West, Big Spring, TX 79720
☐ Orta Facility (STF-0191): 27 FM 652 West, Orta, TX 79776
☐ Reeves County Facility (STF-0133): 614 E Interstate 10 Service Road, Dalhart, TX 79718

WASHOUT BY: _____
WASHOUT: TIME IN: _____ TIME OUT: _____

ACCEPTANCE TESTING: PAINT FILTER: PASS FAIL N/A
TCLP: PASS FAIL N/A
TOX: PASS FAIL N/A

SERVICE NOTES: _____

This is to certify that: _____ has received the above indicated waste, waste has passed all acceptance testing of this facility and the waste has been disposed of in an authorized manner at a permitted site.

EMPLOYEE SIGNATURE: _____

Shake Out: 1 2 3
H₂O
S
Gallon Test: _____

Gross Weight: _____
Tare Weight: _____
Net Weight: _____
Net Tons: _____
Ticket Number: _____

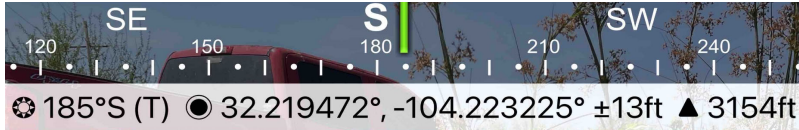


CIMAREX ENERGY
BLACK RIVER-JOHN D FOREHAND
RIVER CROSSING
EDDY, NM



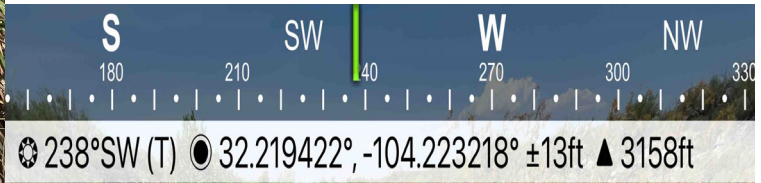


CIMAREX ENERGY
BLACK RIVER-JOHN D FOREHAND
RIVER CROSSING
EDDY, NM



Cimarex Energy Co.

Black River OBM Spill
06 Jun 2024 11:13:38



Cimarex Energy Co.

Black River OBM Spill
06 Jun 2024 11:14:11



CIMAREX ENERGY
BLACK RIVER-JOHN D FOREHAND
RIVER CROSSING
EDDY, NM





CIMAREX ENERGY
BLACK RIVER-JOHN D FOREHAND
RIVER CROSSING
EDDY, NM



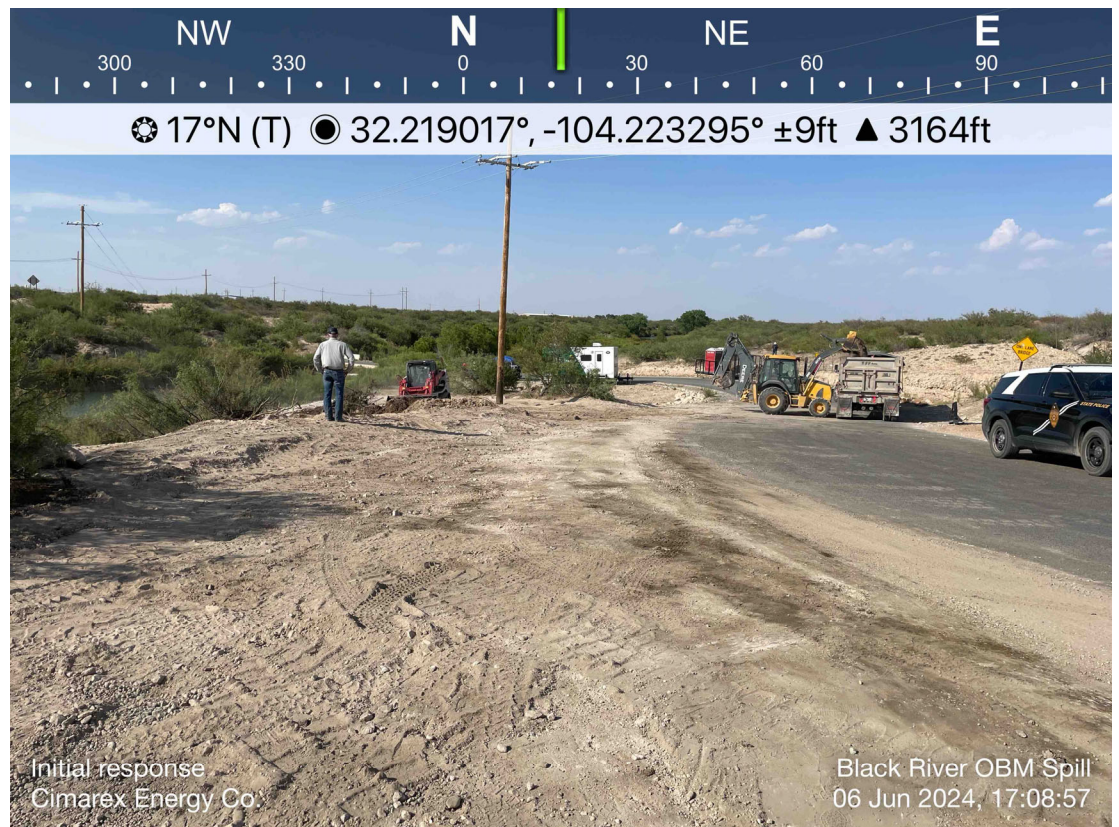


CIMAREX ENERGY
BLACK RIVER-JOHN D FOREHAND
RIVER CROSSING
EDDY, NM





CIMAREX ENERGY
BLACK RIVER-JOHN D FOREHAND
RIVER CROSSING
EDDY, NM





CIMAREX ENERGY
BLACK RIVER-JOHN D FOREHAND
RIVER CROSSING
EDDY, NM



Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

District I

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

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

QUESTIONS

Action 355751

QUESTIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 355751
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2415878197
Incident Name	NAPP2415878197 BLACK RIVER - JOHN D FOREHAND RD CROSSING @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source

Site Name	Black River - John D Forehand Rd Crossing
Date Release Discovered	06/06/2024
Surface Owner	Private

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	600
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/21/2024
Time sampling will commence	09:30 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources - 432-813-7389
Please provide any information necessary for navigation to sampling site	32.21922,-104.223181

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

CONDITIONS

Action 355751

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 355751
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
lluig	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	6/19/2024

APPENDIX D

CARMONA RESOURCES

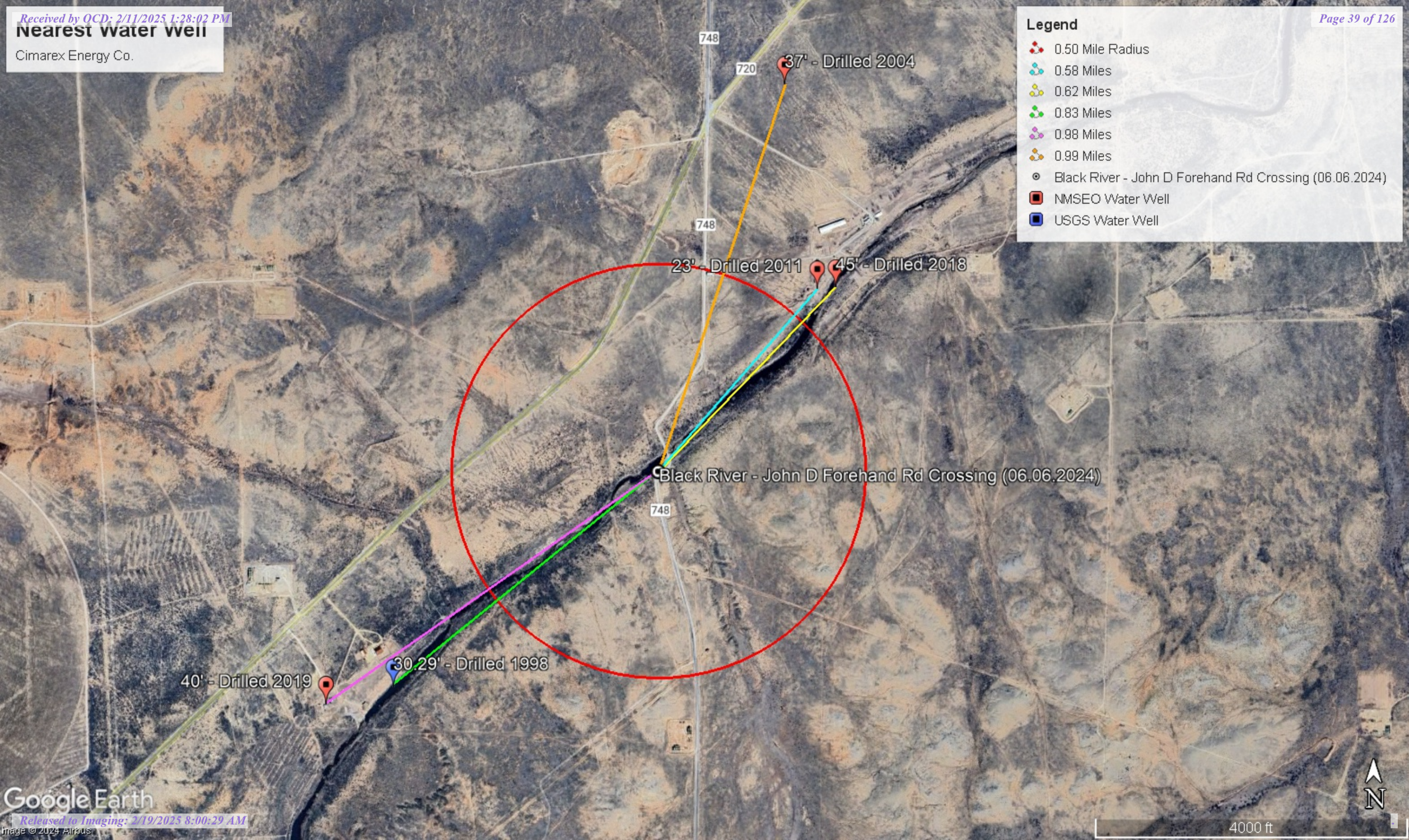


Nearest water well

Cimarex Energy Co.

Legend

- 0.50 Mile Radius
- 0.58 Miles
- 0.62 Miles
- 0.83 Miles
- 0.98 Miles
- 0.99 Miles
- Black River - John D Forehand Rd Crossing (06.06.2024)
- NMSEO Water Well
- USGS Water Well

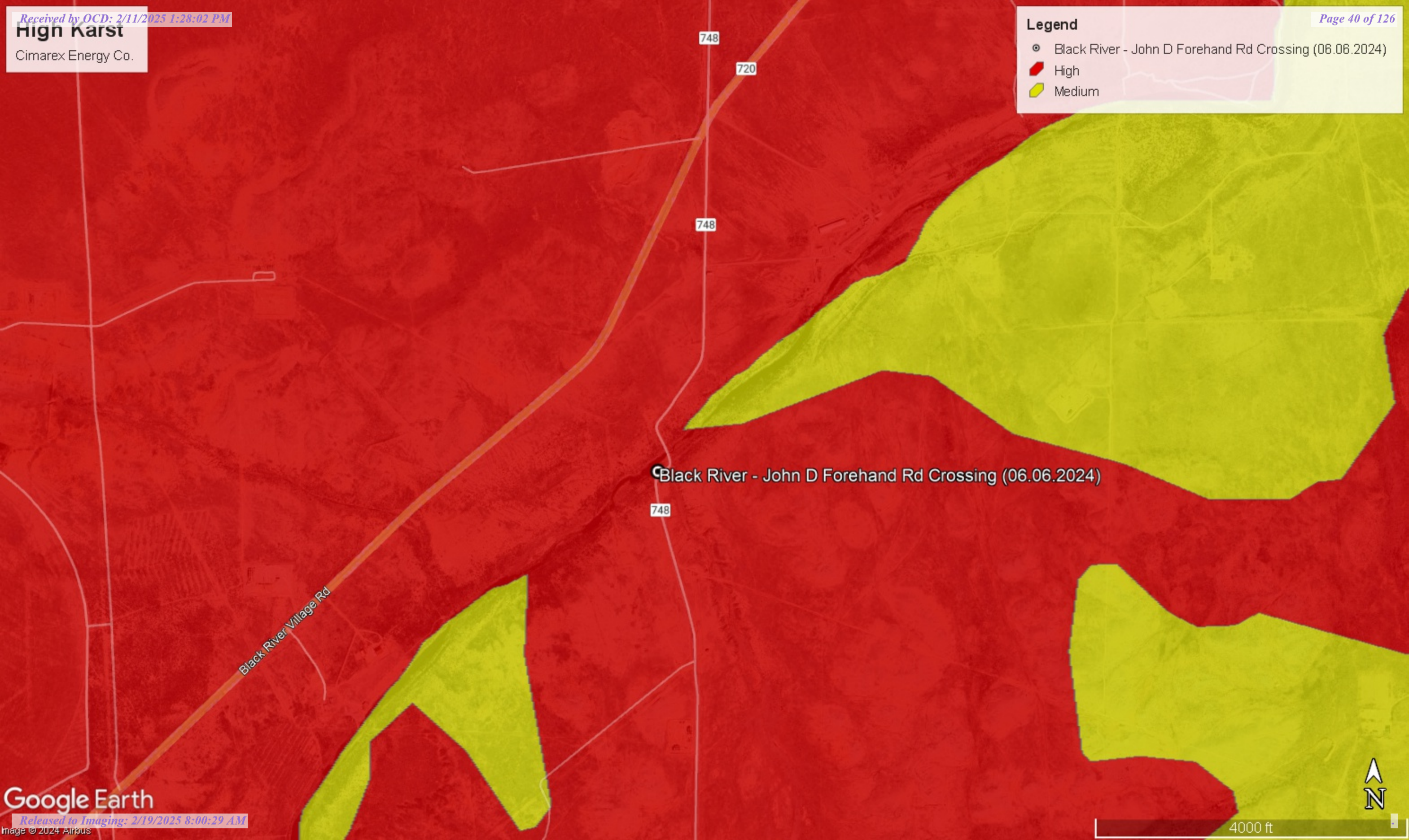


High Karst

Cimarex Energy Co.

Legend

- Black River - John D Forehand Rd Crossing (06.06.2024)
- High
- Medium





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03490 POD1	CUB	ED		3	4	3	08	24S	27E	573812	3565709	937	140	23	117
C 00516 POD10	CUB	ED		3	4	3	08	24S	27E	573875	3565722	988	160	45	115
C 00683	C	ED		4	3	08	24S	27E	573986	3565796*	1119	50	17	33	
C 01187	C	ED		4	3	08	24S	27E	573986	3565796*	1119	108	17	91	
C 00516 POD6	CUB	ED		1	4	3	08	24S	27E	573885	3565895*	1127	78	17	61
C 01169	C	ED		1	4	3	18	24S	27E	572282	3564261*	1177	55	35	20
C 00631	C	ED		3	3	4	08	24S	27E	574288	3565701*	1294	50	24	26
C 03489 POD1	CUB	ED		2	4	3	08	24S	27E	574153	3565939	1339	200		
C 00516	CUB	ED		1	3	4	08	24S	27E	574288	3565901*	1413	105	36	69
C 00516 CLW201016	O	CUB	ED	1	3	4	08	24S	27E	574288	3565901*	1413	62		
C 00516 CLW308590	O	CUB	ED	1	3	4	08	24S	27E	574288	3565901*	1413	105	36	69
C 00516 S	CUB	ED		1	3	4	08	24S	27E	574288	3565901	1413	50	17	33
C 00929	C	ED		3	3	18	24S	27E	572013	3564159*	1454	54	33	21	
C 03560 POD1	C	ED		2	3	3	18	24S	27E	572009	3564150	1462	68	28	40
C 03092	C	ED		4	3	1	08	24S	27E	573678	3566501*	1576	54	37	17
C 04360 POD1	C	ED		3	3	3	18	24S	27E	571910	3564085	1580	72	40	32
C 01366	CUB	ED		4	08	24S	27E			574590	3566003*	1714	60	35	25

Average Depth to Water: **29 feet**

Minimum Depth: **17 feet**

Maximum Depth: **45 feet**

Record Count: 17

UTMNAD83 Radius Search (in meters):

Easting (X): 573200

Northing (Y): 3564999

Radius: 2000

*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.

6/12/24 10:22 AM


Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	03490 POD1	3	4	3	08	24S	27E	573812	3565709 
<hr/>									
Driller License:	1690	Driller Company:				VISION RESOURCES, INC			
Driller Name:	JASON MALEY (LD)								
Drill Start Date:	06/29/2011	Drill Finish Date:				06/30/2011		Plug Date:	
Log File Date:	06/18/2012	PCW Rcv Date:						Source:	Shallow
Pump Type:	SUBMER	Pipe Discharge Size:						Estimated Yield:	150 GPM
Casing Size:	8.00	Depth Well:				140 feet		Depth Water:	23 feet
<hr/>									
Water Bearing Stratifications:					Top	Bottom	Description		
					80	140	Sandstone/Gravel/Conglomerate		
<hr/>									
Casing Perforations:					Top	Bottom			
					80	140			
<hr/>									

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.

6/12/24 10:22 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	Y
NA	C 00516 POD10	3	4	3	08	24S	27E	573875	3565722

x

Driller License: 1690 **Driller Company:** VISION RESOURCES, INC

Driller Name: JASON MALEY

Drill Start Date: 08/21/2018	Drill Finish Date: 08/22/2018	Plug Date:
Log File Date: 09/24/2018	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 200 GPM
Casing Size: 8.50	Depth Well: 160 feet	Depth Water: 45 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	50	60	Sandstone/Gravel/Conglomerate
	60	160	Sandstone/Gravel/Conglomerate

x

Casing Perforations:	Top	Bottom
	60	160

x

Meter Number: 18404	Meter Make: MCCROMETER
Meter Serial Number: 09-00426-0	Meter Multiplier: 0.0001
Number of Dials: 6	Meter Type: Diversion
Unit of Measure: Acre-Feet	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Monthly

x

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
01/01/2020	2020	180750	A	RPT		0

**YTD Meter Amounts:	Year	Amount
	2020	0

x

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6/12/24 10:25 AM

POINT OF DIVERSION SUMMARY



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

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- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321242104140301

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

USGS 321242104140301 24S.27E.18.33332

Eddy County, New Mexico
Latitude 32°12'42", Longitude 104°14'03" NAD27
Land-surface elevation 3,189 feet above NAVD88
The depth of the well is 35 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measur
1955-07-13			D 62610		3159.06	NGVD29	1	Z		
1955-07-13			D 62611		3160.73	NAVD88	1	Z		
1955-07-13			D 72019	28.27			1	Z		
1978-01-25			D 62610		3157.58	NGVD29	1	Z		
1978-01-25			D 62611		3159.25	NAVD88	1	Z		
1978-01-25			D 72019	29.75			1	Z		
1983-01-27			D 62610		3157.92	NGVD29	1	Z		
1983-01-27			D 62611		3159.59	NAVD88	1	Z		
1983-01-27			D 72019	29.41			1	Z		
1988-02-10			D 62610		3158.99	NGVD29	1	Z		
1988-02-10			D 62611		3160.66	NAVD88	1	Z		
1988-02-10			D 72019	28.34			1	Z		
1992-11-12			D 62610		3158.16	NGVD29	1	S		
1992-11-12			D 62611		3159.83	NAVD88	1	S		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1992-11-12			D	72019	29.17		1		S	
1998-01-07			D	62610	3157.04	NGVD29	1		S	
1998-01-07			D	62611	3158.71	NAVD88	1		S	
1998-01-07			D	72019	30.29		1		S	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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



Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2024-06-11 22:29:10 EDT
0.25 0.22 nadww01



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
22503	C 04360 POD1	3	3	3	18	24S	27E	571910	3564085

Driller License: 1348 **Driller Company:** TAYLOR WATER WELL SERVICE
Driller Name: TAYLOR, CLINTON E.E.ENER
Drill Start Date: 11/01/2019 **Drill Finish Date:** 11/04/2019 **Plug Date:**
Log File Date: 11/18/2019 **PCW Rcv Date:** **Source:** Shallow
Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 100 GPM
Casing Size: 4.50 **Depth Well:** 72 feet **Depth Water:** 40 feet

Water Bearing Stratifications:

Top	Bottom	Description
40	54	Limestone/Dolomite/Chalk
54	60	Sandstone/Gravel/Conglomerate
60	72	Other/Unknown

Casing Perforations:

Top	Bottom
39	72

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6/12/24 10:26 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	Y
	C 03092	4	3	1	08	24S	27E	573678	3566501*
<hr/>									
Driller License: 1348		Driller Company:		TAYLOR WATER WELL SERVICE					
Driller Name:									
Drill Start Date: 05/17/2004		Drill Finish Date:		05/18/2004		Plug Date:			
Log File Date: 07/16/2004		PCW Rcv Date:				Source:		Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:		60 GPM	
Casing Size: 6.63		Depth Well:		54 feet		Depth Water:		37 feet	
<hr/>									
Water Bearing Stratifications:				Top	Bottom	Description			
				43	49	Sandstone/Gravel/Conglomerate			
<hr/>									
Casing Perforations:				Top	Bottom				
				34	54				

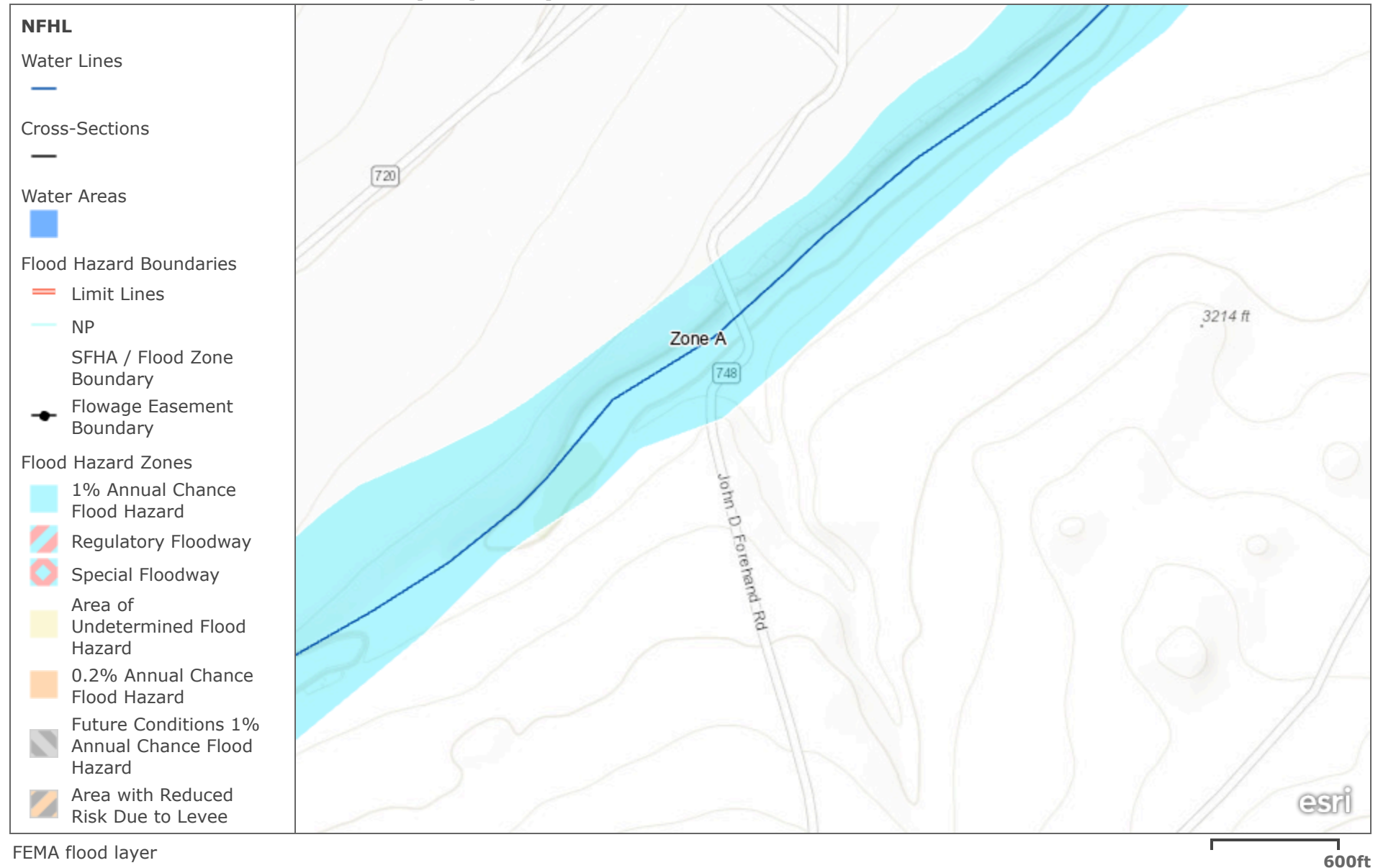
*UTM location was derived from PLSS - see Help

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6/12/24 10:25 AM

POINT OF DIVERSION SUMMARY

FEMA National Flood Hazard Layer (NFHL)



Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA

FEMA National Flood Hazard Layer (NFHL)



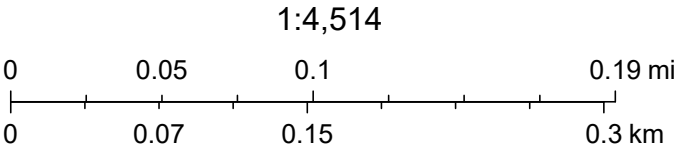
Maxar | Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

Black River - John D Forehand Rd Crossing (06.06.2024)



6/11/2024, 9:26:39 PM

- OSW Water Bodys
- OSE Streams



Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, ©

APPENDIX E

CARMONA RESOURCES





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

June 11, 2024

ASHTON THIELKE
CARMONA RESOURCES
310 W WALL ST, SUITE 500
MIDLAND, TX 79701

RE: BLACK RIVER - JOHN D FOREHAND RD CROSSING

Enclosed are the results of analyses for samples received by the laboratory on 06/07/24 15:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 1 (0-3") (H243278-01)

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	06/07/2024	ND	1.69	84.3	2.00	15.7	
Toluene*	<0.050	0.050	06/07/2024	ND	1.77	88.3	2.00	12.9	
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.72	86.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.41	90.2	6.00	9.98	
Total BTEX	<0.300	0.300	06/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/10/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	83.1	10.0	06/07/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 1 (6") (H243278-02)

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	06/07/2024	ND	1.69	84.3	2.00	15.7		
Toluene*	<0.050	0.050	06/07/2024	ND	1.77	88.3	2.00	12.9		
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.72	86.1	2.00	10.6		
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.41	90.2	6.00	9.98		
Total BTEX	<0.300	0.300	06/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 1 (1') (H243278-03)

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	06/07/2024	ND	1.69	84.3	2.00	15.7		
Toluene*	<0.050	0.050	06/07/2024	ND	1.77	88.3	2.00	12.9		
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.72	86.1	2.00	10.6		
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.41	90.2	6.00	9.98		
Total BTEX	<0.300	0.300	06/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	16.0	10.0	06/07/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 2 (0-3") (H243278-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/07/2024	ND	1.69	84.3	2.00	15.7		
Toluene*	<0.050	0.050	06/07/2024	ND	1.77	88.3	2.00	12.9		
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.72	86.1	2.00	10.6		
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.41	90.2	6.00	9.98		
Total BTEX	<0.300	0.300	06/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	973	10.0	06/07/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 2 (6") (H243278-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/07/2024	ND	1.69	84.3	2.00	15.7		
Toluene*	<0.050	0.050	06/07/2024	ND	1.77	88.3	2.00	12.9		
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.72	86.1	2.00	10.6		
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.41	90.2	6.00	9.98		
Total BTEX	<0.300	0.300	06/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	229	10.0	06/07/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 2 (1') (H243278-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/07/2024	ND	1.69	84.3	2.00	15.7		
Toluene*	<0.050	0.050	06/07/2024	ND	1.77	88.3	2.00	12.9		
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.72	86.1	2.00	10.6		
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.41	90.2	6.00	9.98		
Total BTX	<0.300	0.300	06/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	50.8	10.0	06/07/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 2 (2') (H243278-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/07/2024	ND	1.69	84.3	2.00	15.7		
Toluene*	<0.050	0.050	06/07/2024	ND	1.77	88.3	2.00	12.9		
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.72	86.1	2.00	10.6		
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.41	90.2	6.00	9.98		
Total BTEx	<0.300	0.300	06/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 2 (3') (H243278-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/07/2024	ND	1.69	84.3	2.00	15.7		
Toluene*	<0.050	0.050	06/07/2024	ND	1.77	88.3	2.00	12.9		
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.72	86.1	2.00	10.6		
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.41	90.2	6.00	9.98		
Total BTEx	<0.300	0.300	06/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	18.6	10.0	06/07/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 2 (4') (H243278-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/07/2024	ND	1.69	84.3	2.00	15.7		
Toluene*	<0.050	0.050	06/07/2024	ND	1.77	88.3	2.00	12.9		
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.72	86.1	2.00	10.6		
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.41	90.2	6.00	9.98		
Total BTEX	<0.300	0.300	06/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 3 (0-3") (H243278-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/07/2024	ND	1.69	84.3	2.00	15.7		
Toluene*	<0.050	0.050	06/07/2024	ND	1.77	88.3	2.00	12.9		
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.72	86.1	2.00	10.6		
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.41	90.2	6.00	9.98		
Total BTEX	<0.300	0.300	06/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	271	10.0	06/08/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	06/08/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 3 (6") (H243278-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.69	84.3	2.00	15.7		
Toluene*	<0.050	0.050	06/08/2024	ND	1.77	88.3	2.00	12.9		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	1.72	86.1	2.00	10.6		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	5.41	90.2	6.00	9.98		
Total BTEX	<0.300	0.300	06/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/10/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	296	10.0	06/08/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	06/08/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 3 (1.0') (H243278-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.69	84.3	2.00	15.7		
Toluene*	<0.050	0.050	06/08/2024	ND	1.77	88.3	2.00	12.9		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	1.72	86.1	2.00	10.6		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	5.41	90.2	6.00	9.98		
Total BTEX	<0.300	0.300	06/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	06/10/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	35.7	10.0	06/08/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	06/08/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 3 (2.0') (H243278-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.69	84.3	2.00	15.7		
Toluene*	<0.050	0.050	06/08/2024	ND	1.77	88.3	2.00	12.9		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	1.72	86.1	2.00	10.6		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	5.41	90.2	6.00	9.98		
Total BTEX	<0.300	0.300	06/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/10/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	<10.0	10.0	06/08/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	06/08/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 4 (0-3") (H243278-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/07/2024	ND	1.86	92.8	2.00	11.2		
Toluene*	<0.050	0.050	06/07/2024	ND	1.84	92.0	2.00	10.5		
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.84	92.2	2.00	9.75		
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.48	91.4	6.00	9.88		
Total BTEX	<0.300	0.300	06/07/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/11/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	150	74.9	200	13.1	
DRO >C10-C28*	22.1	10.0	06/07/2024	ND	153	76.6	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 58.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 58.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 4 (6") (H243278-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.86	92.8	2.00	11.2		
Toluene*	<0.050	0.050	06/08/2024	ND	1.84	92.0	2.00	10.5		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	1.84	92.2	2.00	9.75		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	5.48	91.4	6.00	9.88		
Total BTEX	<0.300	0.300	06/08/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	150	74.9	200	13.1	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	153	76.6	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 63.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.5 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 4 (1.0') (H243278-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.86	92.8	2.00	11.2		
Toluene*	<0.050	0.050	06/08/2024	ND	1.84	92.0	2.00	10.5		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	1.84	92.2	2.00	9.75		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	5.48	91.4	6.00	9.88		
Total BTEX	<0.300	0.300	06/08/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	150	74.9	200	13.1	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	153	76.6	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 64.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.5 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 4 (1.5') (H243278-19)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.86	92.8	2.00	11.2		
Toluene*	<0.050	0.050	06/08/2024	ND	1.84	92.0	2.00	10.5		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	1.84	92.2	2.00	9.75		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	5.48	91.4	6.00	9.88		
Total BTX	<0.300	0.300	06/08/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	150	74.9	200	13.1	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	153	76.6	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 66.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.8 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 5 (0-3") (H243278-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.86	92.8	2.00	11.2		
Toluene*	<0.050	0.050	06/08/2024	ND	1.84	92.0	2.00	10.5		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	1.84	92.2	2.00	9.75		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	5.48	91.4	6.00	9.88		
Total BTEX	<0.300	0.300	06/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	150	74.9	200	13.1	
DRO >C10-C28*	405	10.0	06/07/2024	ND	153	76.6	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 5 (6") (H243278-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.86	92.8	2.00	11.2		
Toluene*	<0.050	0.050	06/08/2024	ND	1.84	92.0	2.00	10.5		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	1.84	92.2	2.00	9.75		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	5.48	91.4	6.00	9.88		
Total BTEX	<0.300	0.300	06/08/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	150	74.9	200	13.1	
DRO >C10-C28*	224	10.0	06/07/2024	ND	153	76.6	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 69.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 5 (1.0') (H243278-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.86	92.8	2.00	11.2		
Toluene*	<0.050	0.050	06/08/2024	ND	1.84	92.0	2.00	10.5		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	1.84	92.2	2.00	9.75		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	5.48	91.4	6.00	9.88		
Total BTEx	<0.300	0.300	06/08/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	150	74.9	200	13.1	
DRO >C10-C28*	30.9	10.0	06/07/2024	ND	153	76.6	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 74.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.3 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 5 (2.0') (H243278-24)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.86	92.8	2.00	11.2		
Toluene*	<0.050	0.050	06/08/2024	ND	1.84	92.0	2.00	10.5		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	1.84	92.2	2.00	9.75		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	5.48	91.4	6.00	9.88		
Total BTX	<0.300	0.300	06/08/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	150	74.9	200	13.1	
DRO >C10-C28*	19.1	10.0	06/07/2024	ND	153	76.6	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 71.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.5 % 49.1-148

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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 5 (2.5') (H243278-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.86	92.8	2.00	11.2		
Toluene*	<0.050	0.050	06/08/2024	ND	1.84	92.0	2.00	10.5		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	1.84	92.2	2.00	9.75		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	5.48	91.4	6.00	9.88		
Total BTEX	<0.300	0.300	06/08/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	150	74.9	200	13.1	
DRO >C10-C28*	87.7	10.0	06/07/2024	ND	153	76.6	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 74.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 6 (0-3") (H243278-27)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.86	92.8	2.00	11.2		
Toluene*	<0.050	0.050	06/08/2024	ND	1.84	92.0	2.00	10.5		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	1.84	92.2	2.00	9.75		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	5.48	91.4	6.00	9.88		
Total BTEX	<0.300	0.300	06/08/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	150	74.9	200	13.1	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	153	76.6	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 6 (6") (H243278-28)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.86	92.8	2.00	11.2		
Toluene*	<0.050	0.050	06/08/2024	ND	1.84	92.0	2.00	10.5		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	1.84	92.2	2.00	9.75		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	5.48	91.4	6.00	9.88		
Total BTEX	<0.300	0.300	06/08/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	150	74.9	200	13.1	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	153	76.6	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 69.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 6 (1.0') (H243278-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.86	92.8	2.00	11.2		
Toluene*	<0.050	0.050	06/08/2024	ND	1.84	92.0	2.00	10.5		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	1.84	92.2	2.00	9.75		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	5.48	91.4	6.00	9.88		
Total BTEX	<0.300	0.300	06/08/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2024	ND	150	74.9	200	13.1	
DRO >C10-C28*	<10.0	10.0	06/08/2024	ND	153	76.6	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	06/08/2024	ND					

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/11/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: S - 6 (1.5') (H243278-30)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2024	ND	1.86	92.8	2.00	11.2		
Toluene*	<0.050	0.050	06/08/2024	ND	1.84	92.0	2.00	10.5		
Ethylbenzene*	<0.050	0.050	06/08/2024	ND	1.84	92.2	2.00	9.75		
Total Xylenes*	<0.150	0.150	06/08/2024	ND	5.48	91.4	6.00	9.88		
Total BTEx	<0.300	0.300	06/08/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2024	ND	150	74.9	200	13.1	
DRO >C10-C28*	<10.0	10.0	06/08/2024	ND	153	76.6	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	06/08/2024	ND					

Surrogate: 1-Chlorooctane 73.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.4 % 49.1-148

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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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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No:

HA246278

Page 1 of 4

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

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

Project Name:	Black River - John D Forehand Rd Crossing	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	2403	Due Date:	24 JUN 2024														None: NO <input type="checkbox"/> DI Water: H ₂ O <input type="checkbox"/>		
Project Location:	Eddy County, New Mexico																Cool: Cool <input type="checkbox"/> MeOH: Me <input type="checkbox"/>		
Sampler's Name:	MM																HCL: HC <input type="checkbox"/> HNO ₃ : HN <input type="checkbox"/>		
PO #:																	H ₂ SO ₄ : H ₂ <input type="checkbox"/> NaOH: Na <input type="checkbox"/>		
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H ₃ PO ₄ : HP <input type="checkbox"/>	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	140															NaHSO ₄ : NABIS <input type="checkbox"/>	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	4.2															Na ₂ S ₂ O ₃ : NaSO ₃ <input type="checkbox"/>	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:																Zn Acetate+NaOH: Zn <input type="checkbox"/>	
Total Containers:		Corrected Temperature:																NaOH+Ascorbic Acid: SAPC <input type="checkbox"/>	

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont.	ANALYSIS REQUEST												Sample Comments
S-1 (0-3")	6/7/2024		X		Grab/	1	X	X	X										
S-1 (6")	6/7/2024		X		Grab/	1	X	X	X										
S-1 (1')	6/7/2024		X		Grab/	1	X	X	X										
S-1 (1.5')	6/7/2024		X		Grab/	1													
S-2 (0-3")	6/7/2024		X		Grab/	1	X	X	X										
S-2 (6")	6/7/2024		X		Grab/	1	X	X	X										
S-2 (1')	6/7/2024		X		Grab/	1	X	X	X										
S-2 (2')	6/7/2024		X		Grab/	1	X	X	X										
S-2 (3')	6/7/2024		X		Grab/	1	X	X	X										
S-2 (4')	6/7/2024		X		Grab/	1	X	X	X										

Comments:

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Chain of Custody

Work Order No: 4243278

Page 2 of 4

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

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

Project Name:	Black River - John D Forehand Rd Crossing	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pre-Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	2403	Due Date:	24														None: NO	DI Water: H ₂ O		
Project Location:	Eddy County, New Mexico																Cool: Cool	MeOH: Me		
Sampler's Name:	MM																HCL: HC	HNO ₃ : HN		
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters												Hold		
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	140															H ₃ PO ₄ : HP		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	4.22															NaHSO ₄ : NABIS		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:																Na ₂ S ₂ O ₃ : NaSO ₃		
Total Containers:		Corrected Temperature:																Zn Acetate+NaOH: Zn		
																		NaOH+Ascorbic Acid: S-APC		
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
S-3 (0-3")	6/7/2024		X		Grab/	1	X	X	X											
S-3 (6")	6/7/2024		X		Grab/	1	X	X	X											
S-3 (1.0")	6/7/2024		X		Grab/	1	X	X	X											
S-3 (2.0")	6/7/2024		X		Grab/	1	X	X	X											
S-3 (2.5")	6/7/2024		X		Grab/	1														
S-4 (0-3")	6/7/2024		X		Grab/	1	X	X	X											
S-4 (6")	6/7/2024		X		Grab/	1	X	X	X											
S-4 (1.0")	6/7/2024		X		Grab/	1	X	X	X											
S-4 (1.5")	6/7/2024		X		Grab/	1	X	X	X											
S-4 (2.0")	6/7/2024		X		Grab/	1														

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	6-7-24 1553		

Chain of Custody

Work Order No:

1343278

Page 3 of 4

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

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

Project Name:		Black River - John D Forehand Rd Crossing		Turn Around		ANALYSIS REQUEST <th colspan="2">Preservative Codes</th>										Preservative Codes			
Project Number:	2403	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush	Pres. Code												None: NO	DI Water: H ₂ O		
Project Location	Eddy County, New Mexico	Due Date:	24 6/20/24													Cool: Cool	MeOH: Me		
Sampler's Name:	MM															HCL: HC	HNO ₃ : HN		
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters										Hold			
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	140																
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	4.22																
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	4.22																
Total Containers:		Corrected Temperature:																	
Sample Identification		Date	Time	Soil	Water	Grab/ Comp	# of Cont											Sample Comments	
S-5 (0-3")		6/7/2024		X		Grab/	1	X	X	X									
S-5 (6")		6/7/2024		X		Grab/	1	X	X	X									
S-5 (1.0')		6/7/2024		X		Grab/	1	X	X	X									
S-5 (2.0')		6/7/2024		X		Grab/	1	X	X	X									
S-5 (2.5')		6/7/2024		X		Grab/	1	X	X	X									
S-5 (3.0')		6/7/2024		X		Grab/	1									X			
S-6 (0-3")		6/7/2024		X		Grab/	1	X	X	X									
S-6 (6")		6/7/2024		X		Grab/	1	X	X	X									
S-6 (1.0')		6/7/2024		X		Grab/	1	X	X	X									
S-6 (1.5')		6/7/2024		X		Grab/	1	X	X	X									

Comments:

Relinquished by: (Signature)		Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>		6-7-24 1553	<i>[Signature]</i>	

Chain of Custody

Work Order No: 4243278



Page 4 of 4

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

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

[illegible]

Comments:

Comments:					
	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	
		10-7-24 1553			



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

June 10, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: BLACK RIVER - JOHN D FORHAND RD CROSSING

Enclosed are the results of analyses for samples received by the laboratory on 06/07/24 15:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/10/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FORHAND RD CF	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: H - 1 (0-1') (H243277-01)

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	06/07/2024	ND	1.69	84.3	2.00	15.7		
Toluene*	<0.050	0.050	06/07/2024	ND	1.77	88.3	2.00	12.9		
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.72	86.1	2.00	10.6		
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.41	90.2	6.00	9.98		
Total BTEX	<0.300	0.300	06/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/10/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FORHAND RD CF	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: H - 2 (0-1') (H243277-02)

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	06/07/2024	ND	1.69	84.3	2.00	15.7		
Toluene*	<0.050	0.050	06/07/2024	ND	1.77	88.3	2.00	12.9		
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.72	86.1	2.00	10.6		
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.41	90.2	6.00	9.98		
Total BTEX	<0.300	0.300	06/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/10/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/10/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FORHAND RD CF	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: H - 3 (0-1') (H243277-03)

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	06/07/2024	ND	1.69	84.3	2.00	15.7	
Toluene*	<0.050	0.050	06/07/2024	ND	1.77	88.3	2.00	12.9	
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.72	86.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.41	90.2	6.00	9.98	
Total BTEX	<0.300	0.300	06/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	30.0	10.0	06/07/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/10/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FORHAND RD CF	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: H - 4 (0-1') (H243277-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/07/2024	ND	1.69	84.3	2.00	15.7		
Toluene*	<0.050	0.050	06/07/2024	ND	1.77	88.3	2.00	12.9		
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.72	86.1	2.00	10.6		
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.41	90.2	6.00	9.98		
Total BTEX	<0.300	0.300	06/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	<10.0	10.0	06/07/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	97.7	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 69.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/10/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FORHAND RD CF	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: H - 5 (0-1') (H243277-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2024	ND	1.69	84.3	2.00	15.7	
Toluene*	<0.050	0.050	06/07/2024	ND	1.77	88.3	2.00	12.9	
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.72	86.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.41	90.2	6.00	9.98	
Total BTEX	<0.300	0.300	06/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	10.8	10.0	06/07/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/10/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FORHAND RD CF	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: H - 6 (0-1') (H243277-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/07/2024	ND	1.69	84.3	2.00	15.7		
Toluene*	<0.050	0.050	06/07/2024	ND	1.77	88.3	2.00	12.9		
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.72	86.1	2.00	10.6		
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.41	90.2	6.00	9.98		
Total BTEX	<0.300	0.300	06/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/10/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	34.5	10.0	06/07/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/10/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FORHAND RD CF	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: H - 7 (0-1') (H243277-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2024	ND	1.69	84.3	2.00	15.7	
Toluene*	<0.050	0.050	06/07/2024	ND	1.77	88.3	2.00	12.9	
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	1.72	86.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	06/07/2024	ND	5.41	90.2	6.00	9.98	
Total BTEX	<0.300	0.300	06/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/10/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2024	ND	198	99.1	200	1.58	
DRO >C10-C28*	33.8	10.0	06/07/2024	ND	198	98.8	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	06/07/2024	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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

Cardinal Laboratories

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: 1243277

Page 1 of 1

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

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

Project Name:		Black River - John D Forehand Rd Crossing		Turn Around		ANALYSIS REQUEST												Preservative Codes			
Project Number:		2403	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush															None: NO	DI Water: H ₂ O		
Project Location	Eddy County, New Mexico			Due Date:	24 48													Cool: Cool	MeOH: Me		
Sampler's Name:	MM																	HCL: HC	HNO ₃ : HN		
PO #:																		H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters												Hold			
Received Inact:		Thermometer ID:	140			BTX 8021B												NaHSO ₄ : NABIS			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:	4.22			TPH 8015M (GRO + DRO + MRO)												Na ₂ S ₂ O ₅ : NaSO ₃			
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:	11			Chloride 4500												Zn Acetate+NaOH: Zn			
Total Containers:		Corrected Temperature:																NaOH+Ascorbic Acid: SAPC			
Sample Identification		Date	Time	Soil	Water	Grab/ Comp	# of Cont													Sample Comments	
H-1 (0-1')		6/7/2024		X		Grab/	1	X	X	X											
H-2 (0-1')		6/7/2024		X		Grab/	1	X	X	X											
H-3 (0-1')		6/7/2024		X		Grab/	1	X	X	X											
H-4 (0-1')		6/7/2024		X		Grab/	1	X	X	X											
H-5 (0-1')		6/7/2024		X		Grab/	1	X	X	X											
H-6 (0-1')		6/7/2024		X		Grab/	1	X	X	X											
H-7 (0-1')		6/7/2024		X		Grab/	1	X	X	X											

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	6-7-24 1553	<i>[Signature]</i>	



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

June 24, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: BLACK RIVER - JOHN D FOREHAND RD CROSSING

Enclosed are the results of analyses for samples received by the laboratory on 06/21/24 14:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: CS - 1 (0.75') (H243703-01)

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	06/21/2024	ND	2.07	103	2.00	0.933	
Toluene*	<0.050	0.050	06/21/2024	ND	2.01	101	2.00	3.07	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.98	99.0	2.00	3.49	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.19	103	6.00	4.11	
Total BTEX	<0.300	0.300	06/21/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/24/2024	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	177	88.3	200	2.90	
DRO >C10-C28*	<10.0	10.0	06/21/2024	ND	172	86.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: CS - 2 (0.75') (H243703-02)

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	06/21/2024	ND	2.07	103	2.00	0.933		
Toluene*	<0.050	0.050	06/21/2024	ND	2.01	101	2.00	3.07		
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.98	99.0	2.00	3.49		
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.19	103	6.00	4.11		
Total BTEX	<0.300	0.300	06/21/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/24/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	177	88.3	200	2.90	
DRO >C10-C28*	<10.0	10.0	06/21/2024	ND	172	86.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 70.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: CS - 3 (0.75') (H243703-03)

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	06/21/2024	ND	2.07	103	2.00	0.933		
Toluene*	<0.050	0.050	06/21/2024	ND	2.01	101	2.00	3.07		
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.98	99.0	2.00	3.49		
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.19	103	6.00	4.11		
Total BTEX	<0.300	0.300	06/21/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/24/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	177	88.3	200	2.90	
DRO >C10-C28*	<10.0	10.0	06/21/2024	ND	172	86.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: CS - 4 (0.75') (H243703-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/21/2024	ND	2.07	103	2.00	0.933		
Toluene*	<0.050	0.050	06/21/2024	ND	2.01	101	2.00	3.07		
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.98	99.0	2.00	3.49		
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.19	103	6.00	4.11		
Total BTEX	<0.300	0.300	06/21/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	06/24/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	177	88.3	200	2.90	
DRO >C10-C28*	<10.0	10.0	06/21/2024	ND	172	86.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 71.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: CS - 5 (0.75') (H243703-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	2.07	103	2.00	0.933	
Toluene*	<0.050	0.050	06/21/2024	ND	2.01	101	2.00	3.07	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.98	99.0	2.00	3.49	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.19	103	6.00	4.11	
Total BTEX	<0.300	0.300	06/21/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/24/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	177	88.3	200	2.90	
DRO >C10-C28*	<10.0	10.0	06/21/2024	ND	172	86.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: CS - 6 (0.75') (H243703-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/22/2024	ND	2.07	103	2.00	0.933		
Toluene*	<0.050	0.050	06/22/2024	ND	2.01	101	2.00	3.07		
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	1.98	99.0	2.00	3.49		
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.19	103	6.00	4.11		
Total BTEX	<0.300	0.300	06/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/24/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	177	88.3	200	2.90	
DRO >C10-C28*	<10.0	10.0	06/21/2024	ND	172	86.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 75.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: CS - 7 (0.75') (H243703-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/22/2024	ND	2.07	103	2.00	0.933		
Toluene*	<0.050	0.050	06/22/2024	ND	2.01	101	2.00	3.07		
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	1.98	99.0	2.00	3.49		
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.19	103	6.00	4.11		
Total BTEX	<0.300	0.300	06/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/24/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	177	88.3	200	2.90	
DRO >C10-C28*	<10.0	10.0	06/21/2024	ND	172	86.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: 4243703

Page 1 of 1

Page 10 of 10

Project Manager: Ashton Thielke		Bill to: (if different) Laci Luig		Work Order Comments	
Company Name: Carmora Resources		Company Name: Cimarex Energy		Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Refund <input type="checkbox"/>	
Address: 310 W Wall St Ste 500		Address: 600 N Marientfield St, Suite 600		State of Project: <input type="checkbox"/> Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>	
City, State ZIP: Midland, TX 79701		City, State ZIP: Midland, TX 79701		Reporting Level: <input type="checkbox"/> Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>	
Phone: 432-813-8988		Email: laci.luig@coterra.com ashton.thielke@coterra.com		Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: <input type="checkbox"/>	
Project Name: Black River - John D Forehand Rd Crossing		Turn Around <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		ANALYSIS REQUEST	
Project Number: 2403		Due Date: 24		Pres. Code	
Project Location: Eddy County, New Mexico		GPJ		BTEX 8021B	
Sampler's Name:		GPJ		TPH 8015M (GRO + DRO + MRO)	
PO #:		Temp Blank: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Chloride 4500	
SAMPLE RECEIPT		Thermometer ID: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Hold	
Received Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Correction Factor: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Sample Comments	
Cooler Custody Seals: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Temperature Reading: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Sample Custody Seals: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Corrected Temperature: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Total Containers:					
Sample Identification		Date		Time	
CS-1 (0.75)		6/21/2024		X	
CS-2 (0.75)		6/21/2024		X	
CS-3 (0.75)		6/21/2024		X	
CS-4 (0.75)		6/21/2024		X	
CS-5 (0.75)		6/21/2024		X	
CS-6 (0.75)		6/21/2024		X	
CS-7 (0.75)		6/21/2024		X	
Comments:					
Relinquished by: (Signature)		Date/Time		Received by: (Signature)	
[Signature]		6/21/2024 14:38		[Signature]	



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

June 24, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: BLACK RIVER - JOHN D FOREHAND RD CROSSING

Enclosed are the results of analyses for samples received by the laboratory on 06/21/24 14:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: SW - 1 (0.75') (H243704-01)

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	06/22/2024	ND	2.07	103	2.00	0.933	
Toluene*	<0.050	0.050	06/22/2024	ND	2.01	101	2.00	3.07	
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	1.98	99.0	2.00	3.49	
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.19	103	6.00	4.11	
Total BTEX	<0.300	0.300	06/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/24/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	177	88.3	200	2.90	
DRO >C10-C28*	<10.0	10.0	06/21/2024	ND	172	86.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.3 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: SW - 2 (0.75') (H243704-02)

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	06/22/2024	ND	2.07	103	2.00	0.933		
Toluene*	<0.050	0.050	06/22/2024	ND	2.01	101	2.00	3.07		
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	1.98	99.0	2.00	3.49		
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.19	103	6.00	4.11		
Total BTEX	<0.300	0.300	06/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/24/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2024	ND	177	88.3	200	2.90	
DRO >C10-C28*	<10.0	10.0	06/22/2024	ND	172	86.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	06/22/2024	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: SW - 3 (0.75') (H243704-03)

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	06/22/2024	ND	2.07	103	2.00	0.933		
Toluene*	<0.050	0.050	06/22/2024	ND	2.01	101	2.00	3.07		
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	1.98	99.0	2.00	3.49		
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.19	103	6.00	4.11		
Total BTEX	<0.300	0.300	06/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/24/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2024	ND	177	88.3	200	2.90	
DRO >C10-C28*	<10.0	10.0	06/22/2024	ND	172	86.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	06/22/2024	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: SW - 4 (0.75') (H243704-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/22/2024	ND	2.07	103	2.00	0.933		
Toluene*	<0.050	0.050	06/22/2024	ND	2.01	101	2.00	3.07		
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	1.98	99.0	2.00	3.49		
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.19	103	6.00	4.11		
Total BTEX	<0.300	0.300	06/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/24/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2024	ND	177	88.3	200	2.90	
DRO >C10-C28*	<10.0	10.0	06/22/2024	ND	172	86.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	06/22/2024	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: SW - 5 (0.75') (H243704-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/22/2024	ND	2.01	101	2.00	2.29		
Toluene*	<0.050	0.050	06/22/2024	ND	2.09	104	2.00	7.25		
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	2.16	108	2.00	7.89		
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.58	110	6.00	8.01		
Total BTEX	<0.300	0.300	06/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/24/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2024	ND	177	88.3	200	2.90	
DRO >C10-C28*	<10.0	10.0	06/22/2024	ND	172	86.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	06/22/2024	ND					

Surrogate: 1-Chlorooctane 68.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: SW - 6 (0.75') (H243704-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/22/2024	ND	2.01	101	2.00	2.29		
Toluene*	<0.050	0.050	06/22/2024	ND	2.09	104	2.00	7.25		
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	2.16	108	2.00	7.89		
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.58	110	6.00	8.01		
Total BTEX	<0.300	0.300	06/22/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/24/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2024	ND	177	88.3	200	2.90	
DRO >C10-C28*	<10.0	10.0	06/22/2024	ND	172	86.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	06/22/2024	ND					

Surrogate: 1-Chlorooctane 71.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.3 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: SW - 7 (0.75') (H243704-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/22/2024	ND	2.01	101	2.00	2.29		
Toluene*	<0.050	0.050	06/22/2024	ND	2.09	104	2.00	7.25		
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	2.16	108	2.00	7.89		
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.58	110	6.00	8.01		
Total BTEX	<0.300	0.300	06/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/24/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2024	ND	177	88.3	200	2.90	
DRO >C10-C28*	<10.0	10.0	06/22/2024	ND	172	86.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	06/22/2024	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	06/21/2024	Sampling Date:	06/21/2024
Reported:	06/24/2024	Sampling Type:	Soil
Project Name:	BLACK RIVER - JOHN D FOREHAND RD C	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: SW - 8 (0.75') (H243704-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/23/2024	ND	2.01	101	2.00	2.29		
Toluene*	<0.050	0.050	06/23/2024	ND	2.09	104	2.00	7.25		
Ethylbenzene*	<0.050	0.050	06/23/2024	ND	2.16	108	2.00	7.89		
Total Xylenes*	<0.150	0.150	06/23/2024	ND	6.58	110	6.00	8.01		
Total BTEX	<0.300	0.300	06/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/24/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2024	ND	177	88.3	200	2.90	
DRO >C10-C28*	<10.0	10.0	06/22/2024	ND	172	86.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	06/22/2024	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H2413704

Page 1 of 1

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

Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> PRP <input type="checkbox"/> Level IV <input type="checkbox"/>	Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: <input type="checkbox"/>

Project Name:	Black River - John D Forehand Rd Crossing	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	2403	Due Date:	24														None: NO	DI Water: H ₂ O		
Project Location:	Eddy County, New Mexico																Cool: Cool	MeOH: Me		
Sampler's Name:	GPI																HCL: HC	HNO ₃ : HN		
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H ₃ PO ₄ : HP		
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:																NaHSO ₄ : NABIS		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:																Na ₂ S ₂ O ₃ : NaSO ₃		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:																Zn Acetate+NaOH: Zn		
Total Containers:		Corrected Temperature:																NaOH+Ascorbic Acid: SAPC		
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
SW-1 (0.75')	6/21/2024		X		Comp	1	X	X	X											
SW-2 (0.75')	6/21/2024		X		Comp	1	X	X	X											
SW-3 (0.75')	6/21/2024		X		Comp	1	X	X	X											
SW-4 (0.75')	6/21/2024		X		Comp	1	X	X	X											
SW-5 (0.75')	6/21/2024		X		Comp	1	X	X	X											
SW-6 (0.75')	6/21/2024		X		Comp	1	X	X	X											
SW-7 (0.75')	6/21/2024		X		Comp	1	X	X	X											
SW-8 (0.75')	6/21/2024		X		Comp	1	X	X	X											

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			6/24/24 1438



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

January 27, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: BLACK RIVER - 2024 RELEASE AREA

Enclosed are the results of analyses for samples received by the laboratory on 01/21/25 15:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 ASHTON THIELKE
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	01/21/2025	Sampling Date:	01/20/2025
Reported:	01/27/2025	Sampling Type:	Soil
Project Name:	BLACK RIVER - 2024 RELEASE AREA	Sampling Condition:	Cool & Intact
Project Number:	2403	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-EDDY CO., NM		

Sample ID: BACKFILL MATERIAL (H250347-01)

BTX 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	01/23/2025	ND	1.77	88.7	2.00	1.18	
Toluene*	<0.050	0.050	01/23/2025	ND	1.81	90.6	2.00	1.28	
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	1.92	95.8	2.00	1.31	
Total Xylenes*	<0.150	0.150	01/23/2025	ND	5.65	94.1	6.00	1.35	
Total BTX	<0.300	0.300	01/23/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/23/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	201	101	200	0.943	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	204	102	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.8 % 49.1-148

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RPD	Relative Percent Difference
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-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No.:

4250 341

Page 4 of 4

Released to Imaging: 2/19/2025 8:00:29 AM

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

QUESTIONS

Action 430748

QUESTIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 430748
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2415878197
Incident Name	NAPP2415878197 BLACK RIVER - JOHN D FOREHAND RD CROSSING @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received

Location of Release Source*Please answer all the questions in this group.*

Site Name	Black River - John D Forehand Rd Crossing
Date Release Discovered	06/06/2024
Surface Owner	Private

Incident Details*Please answer all the questions in this group.*

Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	Yes
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	Yes

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Human Error Transport Drilling Mud/Fluid Released: 72 BBL Recovered: 72 BBL Lost: 0 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	RBP Hauling was contracted by Waste Management to haul drill cuttings from the White City 8-17-20 Fed Com 1H. For reasons unknown at the time, the truck hauling an estimated 15 cubic yards of drill cuttings flipped going down towards the Black River crossing. All of the cuttings in the roll-off box released onto the road way and the Black River bank. Upon arriving onsite, Cimarex personnel deployed oil sorbent booms into the water. An emergency one-call was placed and a surface scrape was performed to remove impacted soils and brush along the road and river bank. All impact was hauled to Waste Management disposal. There appears to be no signs of cuttings entering the waterway or impact to the waterway at this time. An environmental consultant will be contacted and soil remediation will take place in the coming weeks.

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QUESTIONS, Page 2

Action 430748

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 430748
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (b) may with reasonable probability reach a watercourse; (4) a release of a volume that may with reasonable probability be detrimental to fresh water.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 02/11/2025
--	--

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QUESTIONS, Page 3

Action 430748

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 430748
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 100 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 100 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Zero feet, overlying, or within area
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Zero feet, overlying, or within area
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	448
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	973
GRO+DRO (EPA SW-846 Method 8015M)	973
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	06/21/2024
On what date will (or did) the final sampling or liner inspection occur	06/21/2024
On what date will (or was) the remediation complete(d)	06/21/2024
What is the estimated surface area (in square feet) that will be reclaimed	1325
What is the estimated volume (in cubic yards) that will be reclaimed	40
What is the estimated surface area (in square feet) that will be remediated	1325
What is the estimated volume (in cubic yards) that will be remediated	40

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 430748

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 430748
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 02/11/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 430748

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 430748
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

QUESTIONS, Page 6

Action 430748

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID:
	215099
	Action Number:
	430748
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	355751
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/21/2024
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	600

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1325
What was the total volume (cubic yards) remediated	40
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1325
What was the total volume (in cubic yards) reclaimed	40
Summarize any additional remediation activities not included by answers (above)	All contamination was excavated from the site and hauled away to the disposal. Once clean confirmation samples were obtained, top soil was used to backfill the remediated area. The entire area was reclaimed and reseeded with land owner approved seeds and trees. The site was revisited on Jan 20, 2025 to confirm the use of clean backfill (sampled) since during the original backfilling event, samples were not collected of the material used.
<i>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 (in .pdf format) 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.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 02/11/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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QUESTIONS, Page 7

Action 430748

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 430748
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 430748

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 430748
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2415878197 BLACK RIVER - JOHN D FOREHAND RD CROSSING, thank you. This Remediation Closure Report is approved.	2/19/2025