



SITE INFORMATION

Closure Report
Rustler Bluff 25 Central Tank Battery (01.07.2024)
Incident #: nAPP2400939448
Eddy County, New Mexico
Unit M Sec 25 T26S R28E
32.007336°, -104.047266°

Crude Oil and Produced Water Release
Point of Release: Equipment Failure, Production Flow Line
Release Date: 01.07.2024
Volume Released: 4 Barrels of Crude Oil & 14 Barrels of Produced Water
Volume Recovered: 1 Barrel of Crude Oil & 5 Barrels of Produced Water

CARMONA RESOURCES



Prepared for:
Chevron U.S.A., Inc.
6301 Deauville Blvd
Midland, Texas 79706

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

TABLE OF CONTENTS

1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 SITE ASSESSMENT ACTIVITIES

5.0 CONCLUSIONS

FIGURES

FIGURE 1 OVERVIEW FIGURE 2 TOPOGRAPHIC

FIGURE 3 SAMPLE LOCATION

APPENDICES

APPENDIX A TABLES

APPENDIX B PHOTOS

APPENDIX C NMOCD CORRESPONDENCE

APPENDIX D SITE CHARACTERIZATION AND GROUNDWATER

APPENDIX E LABORATORY REPORTS



February 6, 2024

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

**Re: Closure Report
Rustler Bluff 25 Central Tank Battery (01.07.2024)
Chevron U.S.A., Inc.
Site Location: Unit M, S25, T26S, R28E
(Lat 32.007336°, Long -104.047266°)
Eddy County, New Mexico**

Mr. Bratcher:

On behalf of Chevron U.S.A., Inc. (Chevron), Carmona Resources, LLC has prepared this letter to document site assessment activities for the Rustler Bluff 25 Central Tank Battery release. The site is located at 32.007336°, -104.047266° within Unit M, S25, T26S, R28E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on January 7, 2024, caused by equipment failure on the production line. It resulted in approximately fourteen (14) barrels of produced water and four (4) barrels of crude oil being released. Five (5) barrels of produced water and one (1) barrel of crude oil were recovered. The impacted area was located all on the production well pad, shown in Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The closest groundwater determination bore is approximately 0.69 miles Southeast of the site in S31, T26S, R29E and was drilled in 2022. The well has a reported depth to groundwater of >55' feet below the ground surface (ft bgs) since the presence of groundwater was not encountered. A copy of the associated well log is attached in Appendix D.

On January 25, 2024, Carmona Resources, LLC requested a groundwater variance to utilize the above-referenced water well for closure criteria purposes. The variance request was approved on January 26, 2024. A copy of the correspondence is attached in Appendix C.

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: 2,500 mg/kg (GRO + DRO + MRO).
- Chloride: 10,000 mg/kg.



4.0 Site Assessment Activities

Initial Assessment

On January 17, 2024, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of one (1) sample points (S-1), two (2) test trenches (T-1 and T-2), and six (6) horizontal sample points (H-1 through H-6) were installed to total depths ranging from surface to 3.0' bgs inside and surrounding the release area. 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.

Vertical Delineation

Vertical delineation was not achieved in the area of H-2 for TPH. Refer to Table 1.

Horizontal Delineation

The areas of H-1 through H-6 were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations, with the exception of H-2. Refer to Table 1.

Secondary Assessment

On January 31, 2024, Carmona Resources, LLC performed site assessment activities to further evaluate soil impacts stemming from the release. The area of H-2 was vertically delineated to a total depth of 3.0' bgs as well as two (2) additional horizontal sample points (H-7 and H-8) were installed. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

All site assessment samples were below the regulatory remediation requirements for TPH, BTEX, and chloride. Refer to Table 1.

5.0 Conclusions

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

Sincerely,

Carmona Resources, LLC

Mike Carmona
Environmental Manager

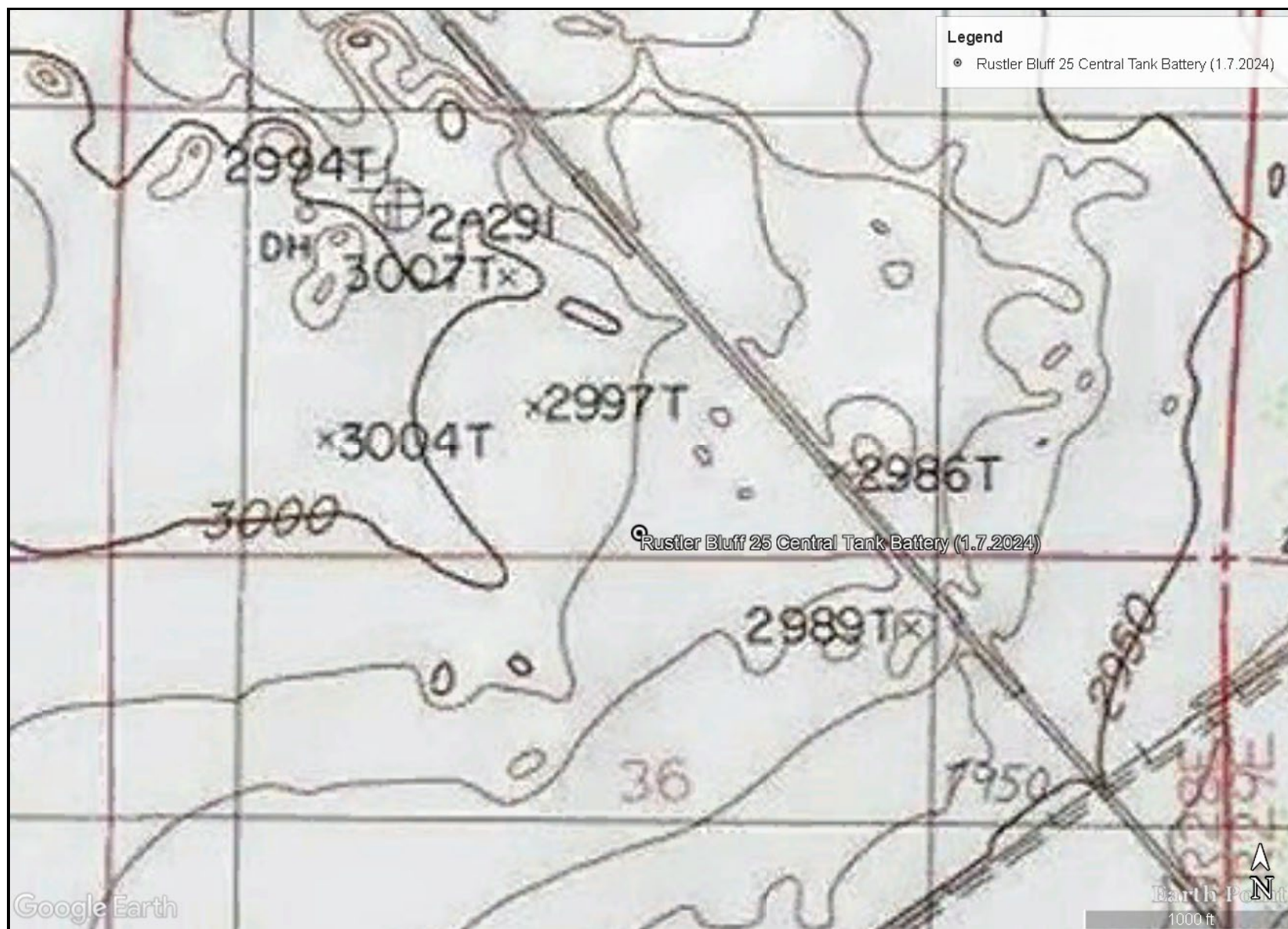
Ashton Thielke
Sr. Project Manager

FIGURES

CARMONA RESOURCES



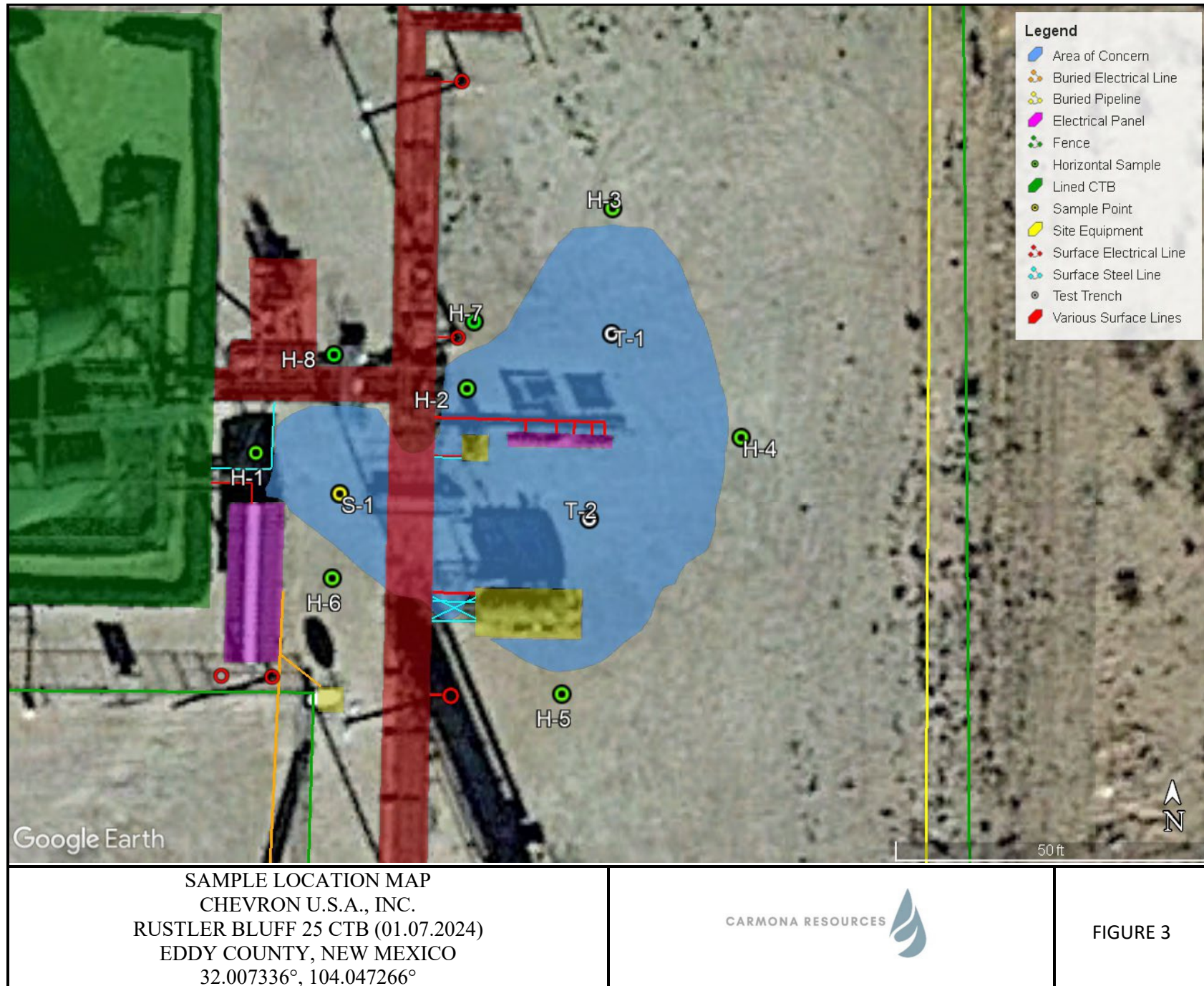




TOPOGRAPHIC MAP
CHEVRON U.S.A., INC.
RUSTLER BLUFF 25 CTB (01.07.2024)
EDDY COUNTY, NEW MEXICO
32.007336°, 104.047266°



FIGURE 2



APPENDIX A

CARMONA RESOURCES



Table 1
Chevron U.S.A. Inc.
Rustler Bluff 25 CTB (1.7.2024)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	1/17/2024	0-1.0	<10.0	141	10.8	152	<0.050	<0.050	<0.050	0.357	0.357	6,720
	"	1.5	<10.0	50.0	<10.0	50.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
	"	2.0	<10.0	11.8	<10.0	11.8	<0.050	<0.050	<0.050	<0.150	<0.300	208
	"	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
T-1	1/17/2024	0-1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	"	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
T-2	1/17/2024	0-1.0	<10.0	10.5	<10.0	10.5	<0.050	<0.050	<0.050	<0.150	<0.300	352
	"	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
	"	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
	"	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Regulatory Criteria ^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(S) Sample Point

(T) Test Trench

Table 1
Chevron U.S.A. Inc.
Rustler Bluff 25 CTB (1.7.2024)
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
H-1	1/17/2024	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-2	1/17/2024	0-0.5	<10.0	149	75.5	225	<0.050	<0.050	<0.050	<0.150	<0.300	144
H-2	1/31/2024	0-1	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
	"	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
	"	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
	"	3.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
H-3	1/17/2024	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-4	1/17/2024	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-5	1/17/2024	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
H-6	1/17/2024	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
H-7	1/31/2024	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
H-8	1/31/2024	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Regulatory Criteria ^A			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 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

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

Photograph No. 1

Facility: Rustler Bluff 25 CTB (01.07.2024)

County: Eddy County, New Mexico

Description:

View South, area of point of release.



Photograph No. 2

Facility: Rustler Bluff 25 CTB (01.07.2024)

County: Eddy County, New Mexico

Description:

View Southwest, area of release.



Photograph No. 3

Facility: Rustler Bluff 25 CTB (01.07.2024)

County: Eddy County, New Mexico

Description:

View Northwest, area of release.



PHOTOGRAPHIC LOG

Chevron U.S.A., Inc.

Photograph No. 4

Facility: Rustler Bluff 25 CTB (01.07.2024)

County: Eddy County, New Mexico

Description:

View West, area of release.



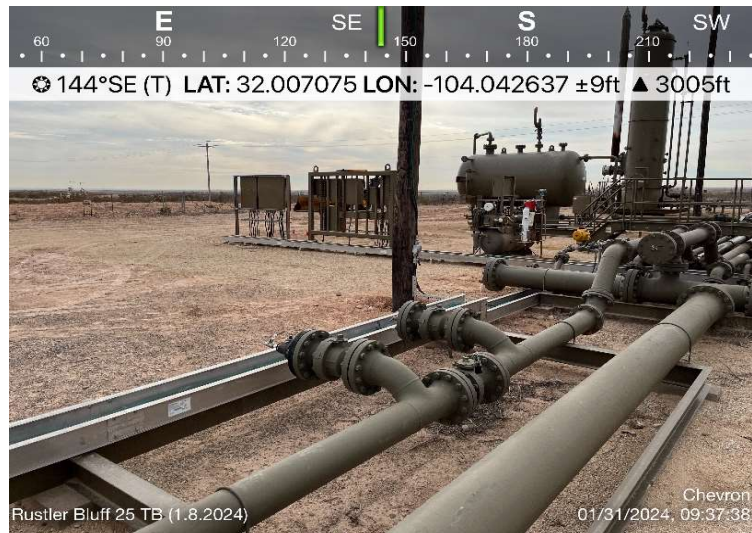
Photograph No. 5

Facility: Rustler Bluff 25 CTB (01.07.2024)

County: Eddy County, New Mexico

Description:

View Southeast, area of release.



Photograph No. 6

Facility: Rustler Bluff 25 CTB (01.07.2024)

County: Eddy County, New Mexico

Description:

View West, area of release.



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 301539

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 301539
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source <i>Please answer all the questions in this group.</i>	
Site Name	Rustler Bluff 25 Central Tank Battery
Date Release Discovered	01/07/2024
Surface Owner	Federal

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	No
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	No

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	Cause: Equipment Failure Flow Line - Production Crude Oil Released: 4 BBL Recovered: 1 BBL Lost: 3 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 8 BBL Recovered: 5 BBL Lost: 3 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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Energy, Minerals and Natural Resources
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QUESTIONS, Page 2

Action 301539

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 301539
	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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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.	

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

ACKNOWLEDGMENTS

Action 301539

ACKNOWLEDGMENTS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 301539
	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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CONDITIONS

Action 301539

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 301539
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
klincoln	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	1/9/2024

Area	Shape	Length (ft)	Width (ft)	Standing Depth (ft)	Soil Penetration (ft)	Standing Volume	In-Soil Volume	Total Volume
1	Rectangle	35.0	25.0	0.0400	0.5000	6.23	11.69	17.92
2								
3								
4								
5								
6								
7								
8								
9								
10								
						Total Volume (bbl)		17.92

Conversion Table	
Inches	Feet
1 inch	0.0833
2 inches	0.1667
3 inches	0.2500
4 inches	0.3333
5 inches	0.4167
6 inches	0.5000
7 inches	0.5833
8 inches	0.6667
9 inches	0.7500
10 inches	0.8333
11 inches	0.9167
1/256 inch	0.0003
1/128 inch	0.0007
1/64 inch	0.0013
1/32 inch	0.0026
1/16 inch	0.0052
1/8 inch	0.0104
1/4 inch	0.0208
3/8 inch	0.0313
1/2 inch	0.0417
5/8 inch	0.0521
3/4 inch	0.0625
7/8 inch	0.0729

Ashton Thielke

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Friday, January 26, 2024 8:48 AM
To: Ashton Thielke
Cc: Mike Carmona
Subject: Re: [EXTERNAL] nAPP2400939448 - Rustler Bluff 25 TB (1.8.2024) - NMAC 19.15.29.11.A.4 - Groundwater Variance

Good morning Ashton,

Thank you for the correspondence. The release was reported to have 12 of the 18 bbls lost. Based on the data provide, your variance request to be applied to 19.15.29.11A (2 & 3) NMAC is approved.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>



From: Ashton Thielke <ThielkeA@carmonaresources.com>
Sent: Thursday, January 25, 2024 10:25 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Mike Carmona <Mcarmona@carmonaresources.com>
Subject: [EXTERNAL] nAPP2400939448 - Rustler Bluff 25 TB (1.8.2024) - NMAC 19.15.29.11.A.4 - Groundwater Variance

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

Good afternoon Mr. Velez

On behalf of Chevron, we are requesting a variance to NMAC 19.15.29.11.A.4 for the above mentioned NMOCD incident #.

The above mentioned site recently had a release on January 8, 2024 and has since been mapped out and assessed.

The closest groundwater data we have for this site is approximately ~0.69 miles Southeast of the site.

A groundwater determination bore was drilled in 2022 to 55' and was reported to be dry at that depth. (See attachment for documentation/well log).

Additional water wells and groundwater determination bores were found during a desktop review to suggest that groundwater is > 50'.

The release was fully contained on pad and did not spread to any pasture or roadway and has no impacts to surface/ground water.

The site is **not** located in a high karst environment and the nearest water feature, river, playa, etc are all greater than 1 mile away.

The site is believed to be no risk to the environment and with NMOCD approval of this variance, Chevron will proceed with closure of this site using the closure criteria found on Table 1 of NMAC 19.15.29, to reflect groundwater at 51-100 feet.

Please let me know if you have any questions.

Thanks!

Ashton Thielke
Senior Project Manager
310 West Wall Street, Suite 500
Midland TX, 79701
M: 432-813-8988 C: 281-753-5659
ThielkeA@carmonaresources.com



APPENDIX D

CARMONA RESOURCES

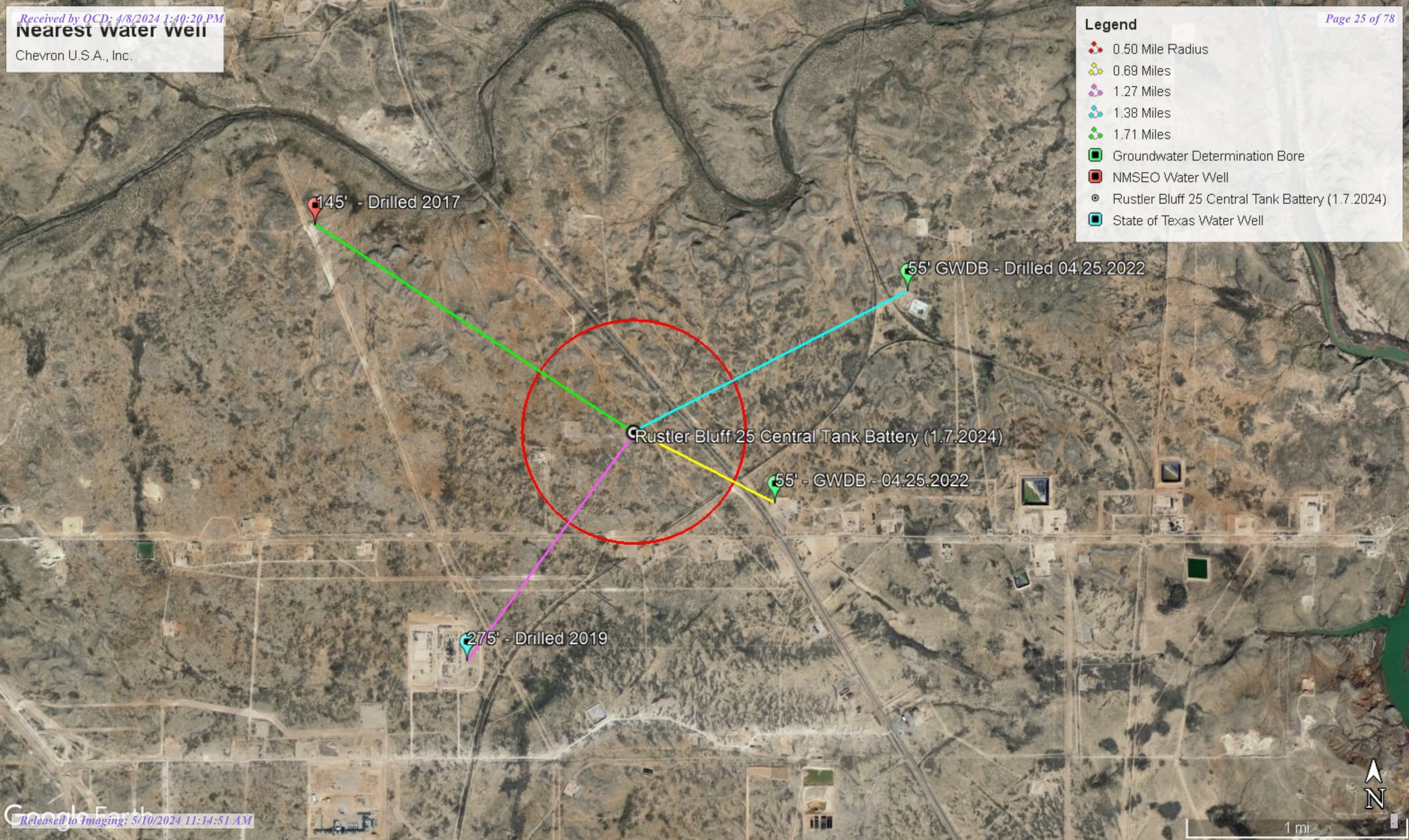


Nearest water well

Chevron U.S.A., Inc.

Legend




- 0.50 Mile Radius
- 0.69 Miles
- 1.27 Miles
- 1.38 Miles
- 1.71 Miles
- Groundwater Determination Bore
- NMSEO Water Well
- Rustler Bluff 25 Central Tank Battery (1.7.2024)
- State of Texas Water Well



Medium Karst

Chevron U.S.A., Inc.

Legend

-  High
-  Medium
-  Rustler Bluff 25 Central Tank Battery (1.7.2024)

Rustler Bluff 25 Central Tank Battery (1.7.2024)





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 04022 POD2	CUB	ED		2	2	2	27	26S	28E	588106	3543082	2732	250	145	105

Average Depth to Water: **145 feet**

Minimum Depth: **145 feet**

Maximum Depth: **145 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 590408

Northing (Y): 3541609

Radius: 4000

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.

1/10/24 7:26 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

CARMONA RESOURCES



Project Name : **COG - Copperhead Fee 31E CTB (01.14.22)**
 Project No. : **1002**
 Location : **Eddy County, New Mexico**
 Coordinates : **32.002359, -104.031693**
 Elevation : **2,930'**

Date : **Monday, May 9, 2022**
 Sampler : **Lane Scarborough**
 Driller : **Scarborough Drilling**
 Method : **Air Rotary**

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		(0') - Red to Brown sandy clay, with 50% medium well-cemented angular gravel, dry, no organics, no odor (GC)		50		(50') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)	
5		(5') - Red to Brown sandy clay, with 50% medium well-cemented angular gravel, dry, no organics, no odor (GC)		55		(55') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)	
10		(10') - Red to Brown sandy clay, with 50% medium well-cemented angular gravel, dry, no organics, no odor (GC)		60			
12		(12') - Red to Brown sandy clay, with 50% well-cemented gypsum fragments, dry, no organics, no odor (SC)		65			
15		(15') - Red to Brown sandy clay, with 50% well-cemented gypsum fragments, dry, no organics, no odor (SC)		70			
20		(20') - Red to Brown sandy clay, with 50% well-cemented gypsum fragments, dry, no organics, no odor (SC)		75			
25		(25') - Red to Brown sandy clay, with 50% well-cemented gypsum fragments, dry, no organics, no odor (SC)		80			
30		(30') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)		85			
35		(35') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)		90			
40		(40') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)		95			
45		(45') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub-angular sand, dry, no organics (ML)		105			
50							

Comments : Boring terminated at 55' at 10:00 AM Central Time with no presence of groundwater or moisture.

Well gauged on 5/13/22 at 11:00 AM Central Time with no detection of groundwater or moisture



Project Name :	COG - Copperhead Fee A 3H (02.08.22)	Date :	Monday, April 25, 2022
Project No. :	1023	Sampler :	Lane Scarborough
Location :	Eddy County, New Mexico	Driller :	Scarborough Drilling
Coordinates :	32.016146, -104.021411	Method :	Air Rotary
Elevation :	2,935'		

Depth (ft.)	WL	Soil Description	Lithology	Depth (ft.)	WL	Soil Description	Lithology
0		(0') - Light Brown soft clayey sand, with 20% medium loose sub angular sand, dry, some organics (SC)		50		(50') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub angular sand, dry, no organics (ML)	
5		(5') - Light Brown soft clayey sand, with 20% medium loose sub angular sand, dry, some organics (SC)		55		(55') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub angular sand, dry, no organics (ML)	
10		(10') - Light brown, stiff soft clayey sand, with 3% fine loose sub angular sand, dry, no organics (SC)		60			
15		(15') - Light brown, stiff soft clayey sand, with 3% fine loose sub angular sand, dry, no organics (SC)		65			
20		(20') - Light brown, stiff soft clayey sand, with 3% fine loose sub angular sand, dry, no organics (SC)		70			
25		(25') - Light brown, stiff soft clayey sand, with 3% fine loose sub angular sand, dry, no organics (SC)		75			
30		(30') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub angular sand, dry, no organics (ML)		80			
35		(35') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub angular sand, dry, no organics (ML)		85			
40		(40') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub angular sand, dry, no organics (ML)		90			
45		(45') - light-dark brown stiff soft clayey sand with 3% fine loose soft, sub angular sand, dry, no organics (ML)		95			
50				105			

Comments : Boring terminated at 55' at 10:00 AM Central Time with no presence of groundwater or moisture.

Well gauged on 4/29/22 at 11:00 AM Central Time with no detection of groundwater or moisture

STATE OF TEXAS WELL REPORT for Tracking #524742			
Owner:	ENLINK MIDSTREAM OPERATING	Owner Well #:	TIGER PLANT # 1
Address:	1722 ROUTH ST SUITE 1300 DALLAS, TX 75201	Grid #:	47-08-2
Well Location:	HWY 285 STATE LINE ON HWY 285, TX	Latitude:	31° 59' 31.13" N
Well County:	Culberson	Longitude:	104° 03' 19.2" W
		Elevation:	2986 ft. above sea level
Type of Work: New Well		Proposed Use: Industrial	

Drilling Start Date: 10/8/2019 Drilling End Date: 10/14/2019

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	17.5	0	9
	12.25	9	398

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: GRAVEL PACKED FROM 398- 10' WITH GRAD 5

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	9	QUICKCRETE 14 Bags/Sacks
	0	10	QUICKCRETE 12 Bags/Sacks

Seal Method: Poured

Sealed By: Driller

Distance to Property Line (ft.): OVER 150'

Distance to Septic Field or other concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: MEASURED

Surface Completion: Surface Sleeve Installed Surface Completion by Driller

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

Water Quality:	Strata Depth (ft.)	Water Type
	275 - 398	FRESH WATER

Chemical Analysis Made: **No**Did the driller knowingly penetrate any strata which
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **West Texas Water Well Service**
3410 Mankins Ave
Odessa, TX 79764

Driller Name: **RORY B ROACH** License Number: **54815**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	10	CALICHE
10	85	SAND-TAN
85	290	GRAY SHALE & SAND
290	380	RED SAND- SMALL GRAVEL
380	390	TAN SAND- SMALL GRAVEL
390	398	HAND GRAY SHALE TD

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
13.38	Unknown	New Steel		0	9
8	Blank	New Plastic (PVC)		0	198
8	MILLSLOT	New Plastic (PVC)		198	398

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.


Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540



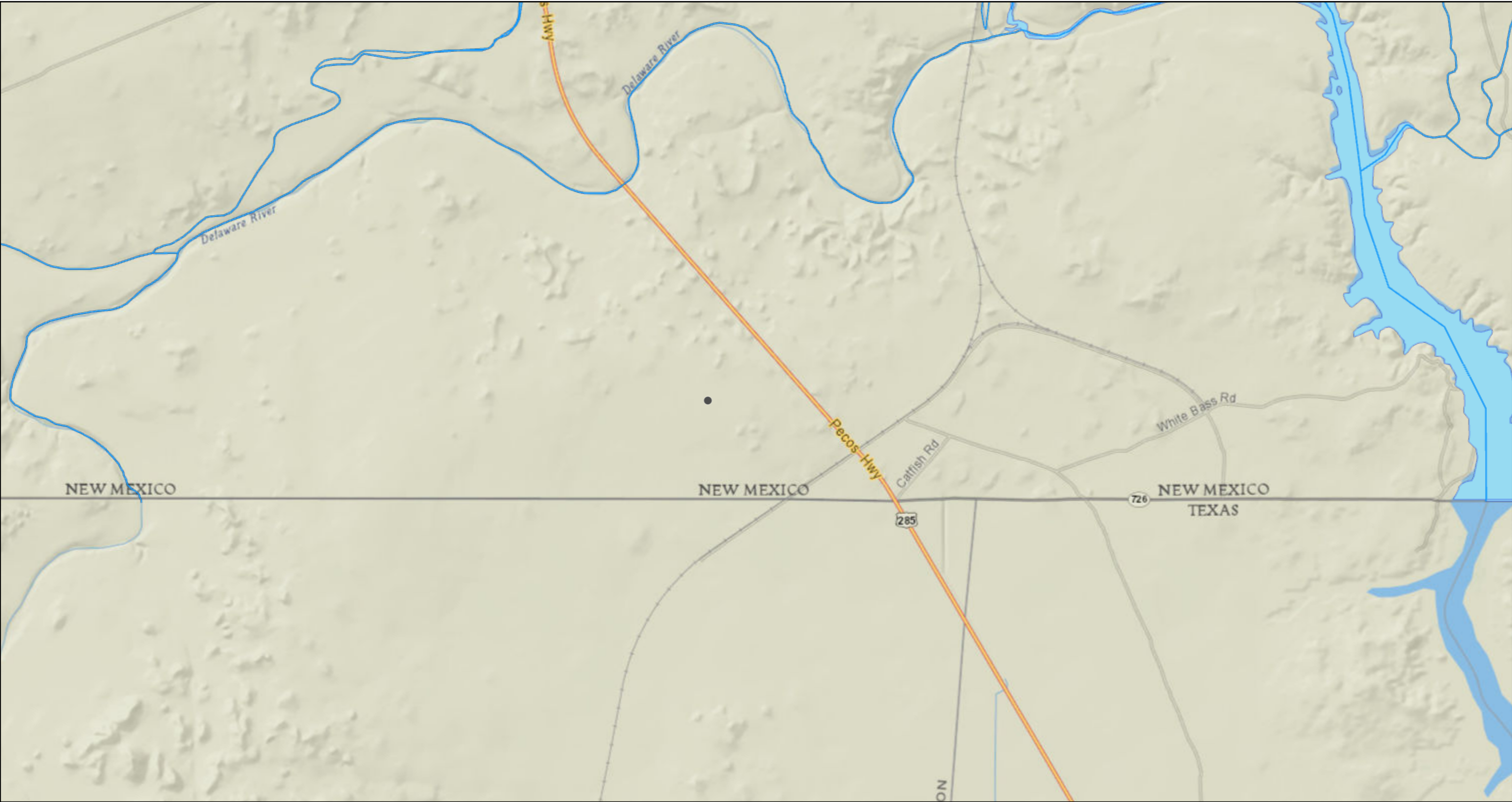
New Mexico Office of the State Engineer

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	04022 POD2	2	2	2	27	26S	28E	588106	3543082 	
Driller License:	1184	Driller Company:				WEST TEXAS WATER WELL SERVICE				
Driller Name:	KEITH, RONNY									
Drill Start Date:	05/08/2017	Drill Finish Date:				05/12/2017	Plug Date:			
Log File Date:	06/05/2017	PCW Rcv Date:				Source:			Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:			60 GPM	
Casing Size:	12.25	Depth Well:				250 feet	Depth Water:			145 feet
Water Bearing Stratifications:					Top	Bottom	Description			
					150	160	Sandstone/Gravel/Conglomerate			
					160	180	Sandstone/Gravel/Conglomerate			
					180	190	Sandstone/Gravel/Conglomerate			
Casing Perforations:					Top	Bottom				
					130	250				

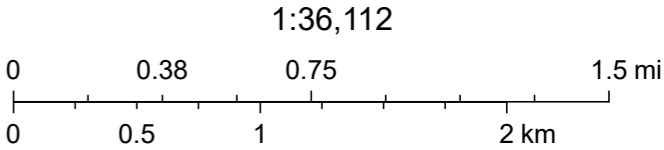
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Rustler Bluff 25 Central Tank Battery



1/12/2024, 7:28:49 AM

- OSW Water Bodys
- OSE Streams



National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp., NM OSE



APPENDIX E

CARMONA RESOURCES





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

January 24, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: RUSTLER BLUFF 25 TB (1.8.2024)

Enclosed are the results of analyses for samples received by the laboratory on 01/19/24 14:45.

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: H - 1 (0-0.5') (H240257-01)

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	01/22/2024	ND	2.19	110	2.00	1.39	
Toluene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	1.68	
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	2.12	
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.63	110	6.00	1.73	
Total BTX	<0.300	0.300	01/22/2024	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: CT				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/22/2024	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	01/22/2024	ND	197	98.3	200	0.133	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	187	93.4	200	0.0498	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: H - 2 (0-0.5') (H240257-02)

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	01/22/2024	ND	2.19	110	2.00	1.39	
Toluene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	1.68	
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	2.12	
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.63	110	6.00	1.73	
Total BTEX	<0.300	0.300	01/22/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/22/2024	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	01/23/2024	ND	197	98.3	200	0.133	
DRO >C10-C28*	149	10.0	01/23/2024	ND	187	93.4	200	0.0498	
EXT DRO >C28-C36	75.5	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: H - 3 (0-0.5') (H240257-03)

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	01/22/2024	ND	2.19	110	2.00	1.39		
Toluene*	<0.050	0.050	01/22/2024	ND	2.20	110	2.00	1.68		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.19	109	2.00	2.12		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.63	110	6.00	1.73		
Total BTEX	<0.300	0.300	01/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/22/2024	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	01/22/2024	ND	209	104	200	0.801	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	190	95.1	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: H - 4 (0-0.5') (H240257-04)

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	01/22/2024	ND	2.12	106	2.00	0.534		
Toluene*	<0.050	0.050	01/22/2024	ND	2.10	105	2.00	0.203		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.11	106	2.00	0.0564		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.26	104	6.00	0.0246		
Total BTEX	<0.300	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/22/2024	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	01/22/2024	ND	209	104	200	0.801	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	190	95.1	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 106 % 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 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: H - 5 (0-0.5') (H240257-05)

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	01/22/2024	ND	2.12	106	2.00	0.534		
Toluene*	<0.050	0.050	01/22/2024	ND	2.10	105	2.00	0.203		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.11	106	2.00	0.0564		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.26	104	6.00	0.0246		
Total BTEX	<0.300	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/22/2024	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	01/22/2024	ND	209	104	200	0.801	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	190	95.1	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 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 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: H - 6 (0-0.5') (H240257-06)

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	01/22/2024	ND	2.12	106	2.00	0.534		
Toluene*	<0.050	0.050	01/22/2024	ND	2.10	105	2.00	0.203		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.11	106	2.00	0.0564		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.26	104	6.00	0.0246		
Total BTEX	<0.300	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/22/2024	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	01/22/2024	ND	209	104	200	0.801	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	190	95.1	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: S - 1 (0-1.0') (H240257-07)

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	01/22/2024	ND	2.12	106	2.00	0.534		
Toluene*	<0.050	0.050	01/22/2024	ND	2.10	105	2.00	0.203		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.11	106	2.00	0.0564		
Total Xylenes*	0.357	0.150	01/22/2024	ND	6.26	104	6.00	0.0246		
Total BTEX	0.357	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6720	16.0	01/22/2024	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	01/22/2024	ND	209	104	200	0.801	
DRO >C10-C28*	141	10.0	01/22/2024	ND	190	95.1	200	2.59	
EXT DRO >C28-C36	10.8	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: S - 1 (1.5') (H240257-08)

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	01/22/2024	ND	2.12	106	2.00	0.534		
Toluene*	<0.050	0.050	01/22/2024	ND	2.10	105	2.00	0.203		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.11	106	2.00	0.0564		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.26	104	6.00	0.0246		
Total BTEx	<0.300	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	01/22/2024	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	01/22/2024	ND	209	104	200	0.801	
DRO >C10-C28*	50.0	10.0	01/22/2024	ND	190	95.1	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: S - 1 (2.0') (H240257-09)

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	01/22/2024	ND	2.12	106	2.00	0.534	
Toluene*	<0.050	0.050	01/22/2024	ND	2.10	105	2.00	0.203	
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.11	106	2.00	0.0564	
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.26	104	6.00	0.0246	
Total BTEX	<0.300	0.300	01/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/22/2024	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	01/22/2024	ND	209	104	200	0.801	
DRO >C10-C28*	11.8	10.0	01/22/2024	ND	190	95.1	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: S - 1 (3.0') (H240257-10)

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	01/22/2024	ND	2.12	106	2.00	0.534		
Toluene*	<0.050	0.050	01/22/2024	ND	2.10	105	2.00	0.203		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.11	106	2.00	0.0564		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.26	104	6.00	0.0246		
Total BTEx	<0.300	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/22/2024	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	01/22/2024	ND	209	104	200	0.801	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	190	95.1	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: T - 1 (0-1.0') (H240257-11)

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	01/22/2024	ND	2.12	106	2.00	0.534		
Toluene*	<0.050	0.050	01/22/2024	ND	2.10	105	2.00	0.203		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.11	106	2.00	0.0564		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.26	104	6.00	0.0246		
Total BTEX	<0.300	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/22/2024	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	01/22/2024	ND	209	104	200	0.801	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	190	95.1	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: T - 1 (1.5') (H240257-12)

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	01/22/2024	ND	2.12	106	2.00	0.534		
Toluene*	<0.050	0.050	01/22/2024	ND	2.10	105	2.00	0.203		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.11	106	2.00	0.0564		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.26	104	6.00	0.0246		
Total BTEx	<0.300	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/22/2024	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	01/22/2024	ND	209	104	200	0.801	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	190	95.1	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 108 % 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 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: T - 1 (2.0') (H240257-13)

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	01/22/2024	ND	2.12	106	2.00	0.534		
Toluene*	<0.050	0.050	01/22/2024	ND	2.10	105	2.00	0.203		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.11	106	2.00	0.0564		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.26	104	6.00	0.0246		
Total BTEX	<0.300	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/22/2024	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	01/22/2024	ND	209	104	200	0.801	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	190	95.1	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 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 415
 MIDLAND TX, 79701
 Fax To:

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: T - 1 (3.0') (H240257-14)

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	01/22/2024	ND	2.12	106	2.00	0.534		
Toluene*	<0.050	0.050	01/22/2024	ND	2.10	105	2.00	0.203		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.11	106	2.00	0.0564		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.26	104	6.00	0.0246		
Total BTEx	<0.300	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/22/2024	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	01/22/2024	ND	209	104	200	0.801	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	190	95.1	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: T - 2 (0-1.0') (H240257-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/22/2024	ND	2.12	106	2.00	0.534		
Toluene*	<0.050	0.050	01/22/2024	ND	2.10	105	2.00	0.203		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.11	106	2.00	0.0564		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.26	104	6.00	0.0246		
Total BTEX	<0.300	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	01/22/2024	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	01/22/2024	ND	209	104	200	0.801	
DRO >C10-C28*	10.5	10.0	01/22/2024	ND	190	95.1	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: T - 2 (1.5') (H240257-16)

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	01/22/2024	ND	2.12	106	2.00	0.534		
Toluene*	<0.050	0.050	01/22/2024	ND	2.10	105	2.00	0.203		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.11	106	2.00	0.0564		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.26	104	6.00	0.0246		
Total BTEx	<0.300	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/22/2024	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	01/22/2024	ND	209	104	200	0.801	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	190	95.1	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: T - 2 (2.0') (H240257-17)

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	01/22/2024	ND	2.12	106	2.00	0.534		
Toluene*	<0.050	0.050	01/22/2024	ND	2.10	105	2.00	0.203		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.11	106	2.00	0.0564		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.26	104	6.00	0.0246		
Total BTEX	<0.300	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/22/2024	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	01/22/2024	ND	209	104	200	0.801	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	190	95.1	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Analytical Results For:

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

Received: 01/19/2024
 Reported: 01/24/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/17/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shari Cisneros

Sample ID: T - 2 (3.0') (H240257-18)

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	01/22/2024	ND	2.12	106	2.00	0.534		
Toluene*	<0.050	0.050	01/22/2024	ND	2.10	105	2.00	0.203		
Ethylbenzene*	<0.050	0.050	01/22/2024	ND	2.11	106	2.00	0.0564		
Total Xylenes*	<0.150	0.150	01/22/2024	ND	6.26	104	6.00	0.0246		
Total BTEx	<0.300	0.300	01/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	01/22/2024	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	01/22/2024	ND	209	104	200	0.801	
DRO >C10-C28*	<10.0	10.0	01/22/2024	ND	190	95.1	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	01/22/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H240257

Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Amy Barnhill
Company Name:	Carmona Resources	Company Name:	Chevron
Address:	310 West Wall Ste. 500	Address:	6301 Deauville Blvd
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79706
Phone:	432-813-8988	Email:	Abarnhill@chevron.com & ThielkeA@Carmonaresources.com

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

Project Name:		Turn Around		ANALYSIS REQUEST												Preservative Codes			
Project Number:	2237	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Pres. Code													None: NO	DI Water: H ₂ O	
Project Location:	Eddy Co, NM	Due Date:	Normal	Parameters BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 4500													Cool: Cool	MeOH: Me	
Sampler's Name:	GPJ	TAT starts the day received by the lab, if received by 4:30pm																HCL: HC	HNO ₃ : HN
PO #:	115-01																	H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>															H ₃ PO ₄ : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	140															NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes <input 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:	0.8														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 (0-0.5')	1/17/2024		X		G	1	X	X	X										
H-2 (0-0.5')	1/17/2024		X		G	1	X	X	X										
H-3 (0-0.5')	1/17/2024		X		G	1	X	X	X										
H-4 (0-0.5')	1/17/2024		X		G	1	X	X	X										
H-5 (0-0.5')	1/17/2024		X		G	1	X	X	X										
H-6 (0-0.5')	1/17/2024		X		G	1	X	X	X										

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	Shane Cameros	1/19/24 14:45			

Revised Date 05012020 Rev. 2020.1

Chain of Custody

Work Order No: H240757

Page 1 of 2

Project Manager:	Ashton Thielke	Bill to: (if different)	Amy Barnhill
Company Name:	Carmona Resources	Company Name:	Chevron
Address:	310 West Wall Ste. 500	Address:	6301 Deauville Blvd
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79706
Phone:	432-813-8988	Email:	Abarnhill@chevron.com & ThielkeA@Carmonaresources.com

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

Project Name:		Turn Around		ANALYSIS REQUEST														Preservative Codes			
Rustler Bluff 25 TB (1.8.2024)		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush																None: NO DI Water: H ₂ O			
Project Number: 2237		Due Date: Normal																Cool: Cool MeOH: Me			
Project Location: Eddy Co, NM		TAT starts the day received by the lab, if received by 4:30pm																HCL: HC HNO ₃ : HN			
Sampler's Name: GPJ																		H ₂ SO ₄ : H ₂ NaOH: Na			
PO #: 115-01																		H ₃ PO ₄ : HP			
SAMPLE RECEIPT		Temp Blank: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wet Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																NaHSO ₄ : NABIS			
Received Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID: 140																Na ₂ S ₂ O ₃ : NaSO ₃			
Cooler Custody Seals: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Correction Factor: 1																Zn Acetate+NaOH: Zn			
Sample Custody Seals: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Temperature Reading: 0.8																NaOH+Ascorbic Acid: SAPC			
Total Containers:		Corrected Temperature: 1																			
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont															Sample Comments
S-1 (0-1.0')	1/17/2024		X		G	1	X	X	X												
S-1 (1.5')	1/17/2024		X		G	1	X	X	X												
S-1 (2.0')	1/17/2024		X		G	1	X	X	X												
S-1 (3.0')	1/17/2024		X		G	1	X	X	X												
T-1 (0-1.0')	1/17/2024		X		G	1	X	X	X												
T-1 (1.5')	1/17/2024		X		G	1	X	X	X												
T-1 (2.0')	1/17/2024		X		G	1	X	X	X												
T-1 (3.0')	1/17/2024		X		G	1	X	X	X												
T-2 (0-1.0')	1/17/2024		X		G	1	X	X	X												
T-2 (1.5')	1/17/2024		X		G	1	X	X	X												

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1/19/24 14:45			

Revised Date 05/01/2020 Rev. 2020.1

Chain of Custody

Work Order No: H240257


Page 2 of 2

Project Manager:	Ashton Thielke	Bill to: (if different)	Amy Barnhill
Company Name:	Carmona Resources	Company Name:	Chevron
Address:	310 West Wall Ste. 500	Address:	6301 Deauville Blvd
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79706
Phone:	432-813-8988	Email:	Abarnhill@chevron.com & ThielkeA@Carmonaresources.com

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

Project Name:		Rustler Bluff 25 TB (1.8.2024)		Turn Around		Pres. Code	ANALYSIS REQUEST														Preservative Codes					
Project Number:		2237		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush			Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500												HOLD	None: NO DI Water: H ₂ O			
Project Location		Eddy Co, NM		Due Date:																			Normal		Cool: Cool MeOH: Me	
Sampler's Name:		GPJ		TAT starts the day received by the lab, if received by 4:30pm																			HCL: HC HNO ₃ : HN			
PO #:		115-01																					H ₂ SO ₄ : H ₂ NaOH: Na			
SAMPLE RECEIPT		Temp Blank:		Yes	No	Wet Ice:																	Yes	No	H ₃ PO ₄ : HP	
Received Intact:		Yes		No	Thermometer ID:		140		NaHSO ₄ : NABIS																	
Cooler Custody Seals:		Yes		No	N/A		Correction Factor:		Na ₂ S ₂ O ₃ : NaSO ₃																	
Sample Custody Seals:		Yes		No	N/A		Temperature Reading:		Zn Acetate+NaOH: Zn																	
Total Containers:				Corrected Temperature:		0.8		NaOH+Ascorbic Acid: SAPC																		
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont										Sample Comments				
T-2 (2.0')		1/17/2024				X				G		1		X		X		X								
T-2 (3.0')		1/17/2024				X				G		1		X		X		X								

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 	Shawn Cisneros	11/19/24 14:45	2		
3			4		
5			6		



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

February 05, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: RUSTLER BLUFF 25 TB (1.8.2024)

Enclosed are the results of analyses for samples received by the laboratory on 01/31/24 13:51.

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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/31/2024
 Reported: 02/05/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 7 (0-0.5') (H240434-01)

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	01/31/2024	ND	2.08	104	2.00	2.77	
Toluene*	<0.050	0.050	01/31/2024	ND	2.20	110	2.00	0.612	
Ethylbenzene*	<0.050	0.050	01/31/2024	ND	2.33	117	2.00	2.38	
Total Xylenes*	<0.150	0.150	01/31/2024	ND	7.03	117	6.00	3.16	
Total BTX	<0.300	0.300	01/31/2024	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	16.0	16.0	01/31/2024	ND	416	104	400	7.41	

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	01/31/2024	ND	216	108	200	0.704	
DRO >C10-C28*	<10.0	10.0	01/31/2024	ND	207	103	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	01/31/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/31/2024
 Reported: 02/05/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 8 (0-0.5') (H240434-02)

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	01/31/2024	ND	2.08	104	2.00	2.77	
Toluene*	<0.050	0.050	01/31/2024	ND	2.20	110	2.00	0.612	
Ethylbenzene*	<0.050	0.050	01/31/2024	ND	2.33	117	2.00	2.38	
Total Xylenes*	<0.150	0.150	01/31/2024	ND	7.03	117	6.00	3.16	
Total BTEx	<0.300	0.300	01/31/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/31/2024	ND	416	104	400	7.41	

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	01/31/2024	ND	216	108	200	0.704	
DRO >C10-C28*	<10.0	10.0	01/31/2024	ND	207	103	200	1.60	
EXT DRO >C28-C36	<10.0	10.0	01/31/2024	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H240434



Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Amy Barnhill
Company Name:	Carmona Resources	Company Name:	Chevron
Address:	310 West Wall Ste. 500	Address:	6301 Deauville Blvd
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79706
Phone:	432-813-8988	Email:	Abarnhill@chevron.com & ThielkeA@Carmonaresources.com

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

[illegible]

Please send results to cmoehring@carmonaresources.com and mcarmona@carmonaresources.com

Relinquished by: (Signature)		Received by: (Signature)		Date/Time	Relinquished by: (Signature)		Received by: (Signature)		Date/Time
1				13-24-1351	2				
3					4				
5					6				



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

February 05, 2024

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: RUSTLER BLUFF 25 TB (1.8.2024)

Enclosed are the results of analyses for samples received by the laboratory on 01/31/24 13:51.

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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/31/2024
 Reported: 02/05/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 2 (0-1.0') (H240435-01)

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	01/31/2024	ND	2.08	104	2.00	2.77	
Toluene*	<0.050	0.050	01/31/2024	ND	2.20	110	2.00	0.612	
Ethylbenzene*	<0.050	0.050	01/31/2024	ND	2.33	117	2.00	2.38	
Total Xylenes*	<0.150	0.150	01/31/2024	ND	7.03	117	6.00	3.16	
Total BTX	<0.300	0.300	01/31/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	01/31/2024	ND	416	104	400	7.41	

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	01/31/2024	ND	192	96.1	200	1.97	
DRO >C10-C28*	<10.0	10.0	01/31/2024	ND	222	111	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	01/31/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/31/2024
 Reported: 02/05/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 2 (1.5') (H240435-02)

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	01/31/2024	ND	2.08	104	2.00	2.77		
Toluene*	<0.050	0.050	01/31/2024	ND	2.20	110	2.00	0.612		
Ethylbenzene*	<0.050	0.050	01/31/2024	ND	2.33	117	2.00	2.38		
Total Xylenes*	<0.150	0.150	01/31/2024	ND	7.03	117	6.00	3.16		
Total BTEx	<0.300	0.300	01/31/2024	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	112	16.0	01/31/2024	ND	416	104	400	7.41	

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	01/31/2024	ND	192	96.1	200	1.97	
DRO >C10-C28*	<10.0	10.0	01/31/2024	ND	222	111	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	01/31/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/31/2024
 Reported: 02/05/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 2 (2') (H240435-03)

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	01/31/2024	ND	2.08	104	2.00	2.77		
Toluene*	<0.050	0.050	01/31/2024	ND	2.20	110	2.00	0.612		
Ethylbenzene*	<0.050	0.050	01/31/2024	ND	2.33	117	2.00	2.38		
Total Xylenes*	<0.150	0.150	01/31/2024	ND	7.03	117	6.00	3.16		
Total BTEX	<0.300	0.300	01/31/2024	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	128	16.0	01/31/2024	ND	416	104	400	7.41		

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	01/31/2024	ND	192	96.1	200	1.97	
DRO >C10-C28*	<10.0	10.0	01/31/2024	ND	222	111	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	01/31/2024	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/31/2024
 Reported: 02/05/2024
 Project Name: RUSTLER BLUFF 25 TB (1.8.2024)
 Project Number: 2237
 Project Location: CHEVRON - EDDY CO, NM

Sampling Date: 01/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 2 (3') (H240435-04)

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	01/31/2024	ND	2.08	104	2.00	2.77	
Toluene*	<0.050	0.050	01/31/2024	ND	2.20	110	2.00	0.612	
Ethylbenzene*	<0.050	0.050	01/31/2024	ND	2.33	117	2.00	2.38	
Total Xylenes*	<0.150	0.150	01/31/2024	ND	7.03	117	6.00	3.16	
Total BTEX	<0.300	0.300	01/31/2024	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	112	16.0	01/31/2024	ND	416	104	400	7.41	

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	01/31/2024	ND	192	96.1	200	1.97	
DRO >C10-C28*	<10.0	10.0	01/31/2024	ND	222	111	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	01/31/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

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

*=Accredited Analyte

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

A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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QUESTIONS

Action 328569

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:	4323
	Action Number:	328569
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2400939448
Incident Name	NAPP2400939448 RUSTLER BLUFF 25 CENTRAL TANK BATTERY @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2131327599] Rustler Bluff 25 Central Tank Battery

Location of Release Source	
Please answer all the questions in this group.	
Site Name	RUSTLER BLUFF 25 CENTRAL TANK BATTERY
Date Release Discovered	01/07/2024
Surface Owner	Federal

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	No
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	No

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	Cause: Equipment Failure Flow Line - Production Crude Oil Released: 4 BBL Recovered: 1 BBL Lost: 3 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 14 BBL Recovered: 5 BBL Lost: 9 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 328569

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:	4323
	Action Number:	328569
	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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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: Kennedy Lincoln Title: Environmental Specialist Email: kennedy.lincoln@chevron.com Date: 01/10/2024
--	--

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QUESTIONS, Page 3

Action 328569

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:	4323
	Action Number:	328569
	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)	Between 51 and 75 (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 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

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
---	-----

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.

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)	6720
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	225
GRO+DRO	(EPA SW-846 Method 8015M)	149
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	01/17/2024
On what date will (or did) the final sampling or liner inspection occur	01/31/2024
On what date will (or was) the remediation complete(d)	01/31/2024
What is the estimated surface area (in square feet) that will be reclaimed	2800
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	750
What is the estimated volume (in cubic yards) that will be remediated	42

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 328569

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:	4323
	Action Number:	328569
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

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.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	"All assessment samples were below the regulatory remediation requirements for TPH, BTEX, and Chloride when utilizing the approved NMAC 19.15.29.11.A.4 variance request to close the site using the closure criteria found on Table 1 of NMAC 19.15.29, to reflect groundwater at 51-100 feet. No remediation took place at this time. Remediation will take place during P/A of the site. A reclamation and revegetation report will be submitted at that time."

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 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: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/08/2024
--	---

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 5

Action 328569

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 328569
	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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QUESTIONS, Page 6

Action 328569

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:	4323
	Action Number:	328569
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	328468
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/31/2024
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	750

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

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	0
What was the total volume (cubic yards) remediated	0
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	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	"All assessment samples were below the regulatory remediation requirments for TPH, BTEX, and Chloride when utilizing the approved NMAC 19.15.29.11.A.4 variance request to close the site using the closure criteria found on Table 1 of NMAC 19.15.29, to reflect groundwater at 51-100 feet. No remediaiton took place at this time. Remediation will take place during P/A of the site. A reclamation and revegetation report will be submitted at that time."

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 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: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 04/08/2024
--	---

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QUESTIONS, Page 7

Action 328569

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 328569
	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 328569

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 328569
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation closure report approved. Release resolved. In the future, variance requests must be provided toward 19.15.29.12D (1) & (1a) NMAC. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.	5/10/2024