



SITE INFORMATION

Closure Report
Marauder 13 Federal Com 003H (03.09.22)
Eddy County, New Mexico
Unit B Sec 31 T19S R31E
32.622771°, -109.905299°

Crude Oil Release
Point of Release: Fluid sent through Flare
Release Date: 03/07/2022
Volume Released: 0.375 barrels of Crude Oil
Volume Recovered: 0 barrels of Crude Oil

CARMONA RESOURCES



Prepared for:
Concho Operating, LLC
15 West London Road,
Loving, New Mexico 88256

Prepared by:
Carmona Resources, LLC
310 West Wall Street
Suite 415
Midland, Texas 79701



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May 18, 2022

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

**Re: Closure Report
Marauder 13 Federal Com 003H (03.09.22)
Concho Operating, LLC
Site Location: Unit B, S31, T19S, R31E
(Lat 32.622771°, Long -103.905299°)
Eddy County, New Mexico**

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), Carmona Resource, LLC has prepared this letter to document site assessment activities. The site is located at 32.622771, -103.905299 within Unit B, S31, T19S, R31E, and in Lea County, New Mexico (Figures 1 and 2).

1.0 Site information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on March 09, 2022, caused by fluid sent through the flare. It resulted in the release of approximately 0.375 barrels of crude oil, and 0 barrels were recovered. See the impacted area 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 source is within a 0.50-mile radius of the location. The nearest identified well is located approximately 1.50 miles east of the site in S28, T19S, R31E and was drilled in 1994. The well has a reported depth to groundwater of 118.81' feet below ground surface (ft bgs). A copy of the associated Point of Diversion Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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

4.0 Site Assessment Activities

Initial Assessment

On March 24, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of two (2) sample points (S-1 and S-2) and six (6) horizontal sample points (H-1 through H-6) were installed to total depths ranging from surface to 1.5 ft below the surface. Soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015



modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The sample locations are shown on Figure 3.

Vertical and horizontal delineation was achieved. Refer to Table 1.

5.0 Remediation Activities

Carmona Resources personnel were onsite from May 12-13th to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on May 10, 2022, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The areas of S-1 and S-2 were excavated to a depth of 1.0' below the surface to remove all the impacted soils. A total of nine (9) floor confirmation samples were collected (CS-1 through CS-9), and eight (8) sidewall samples (SW-1 through SW-8) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The sampling results are summarized in Table 2. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 32 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. The final C-141 is attached, and COG formally requests 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

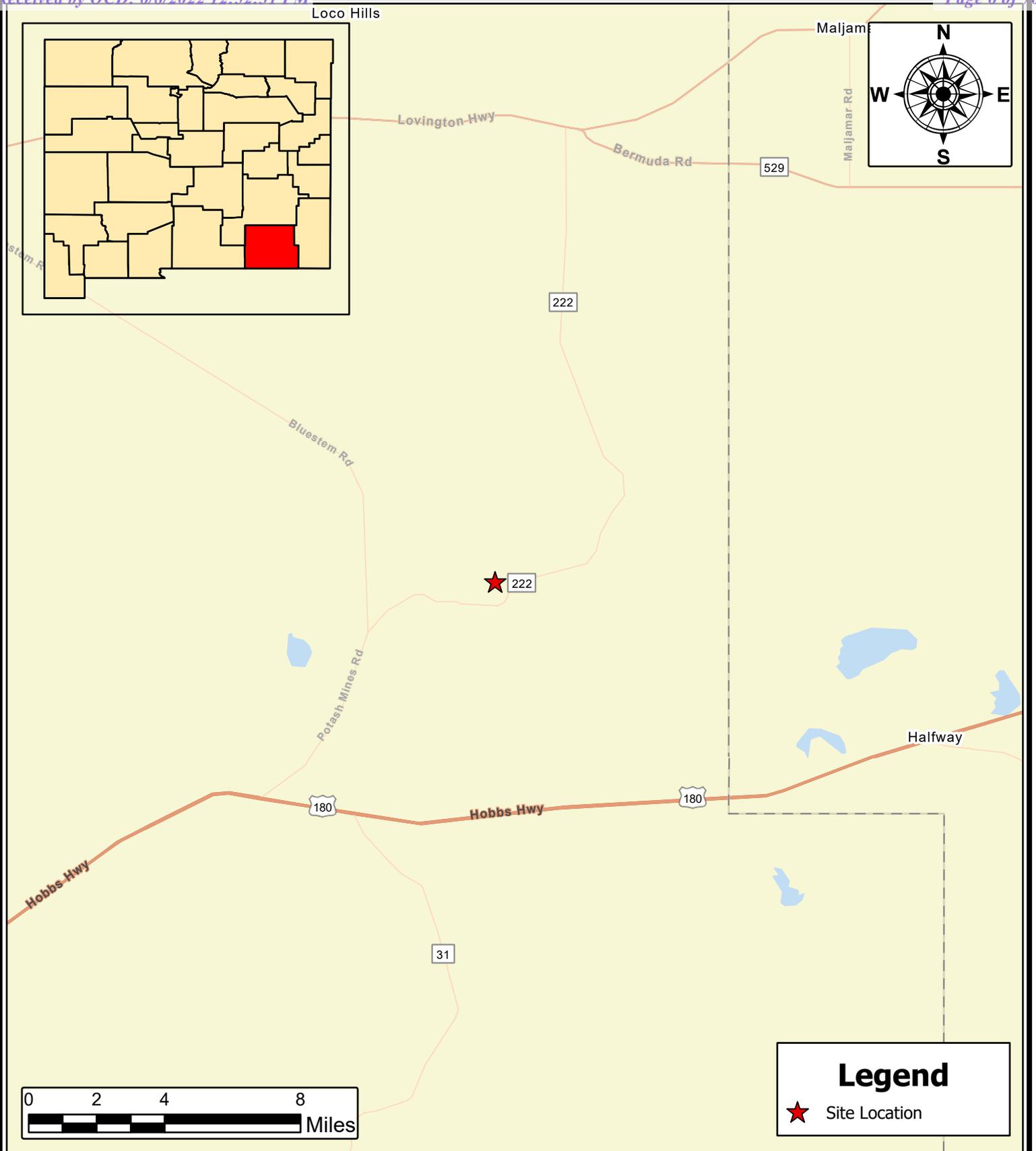
A handwritten signature in black ink, appearing to read "Mike Carmona".

Mike Carmona
Environmental Manager

FIGURES

CARMONA RESOURCES





OVERVIEW MAP
COG OPERATING
 MARAUDER 13 FED 003H (03.09.22)
 EDDY COUNTY, NEW MEXICO
 32.622771, -103.905299

SCALE: As Shown Date: 5/16/2022

CARMONA RESOURCES

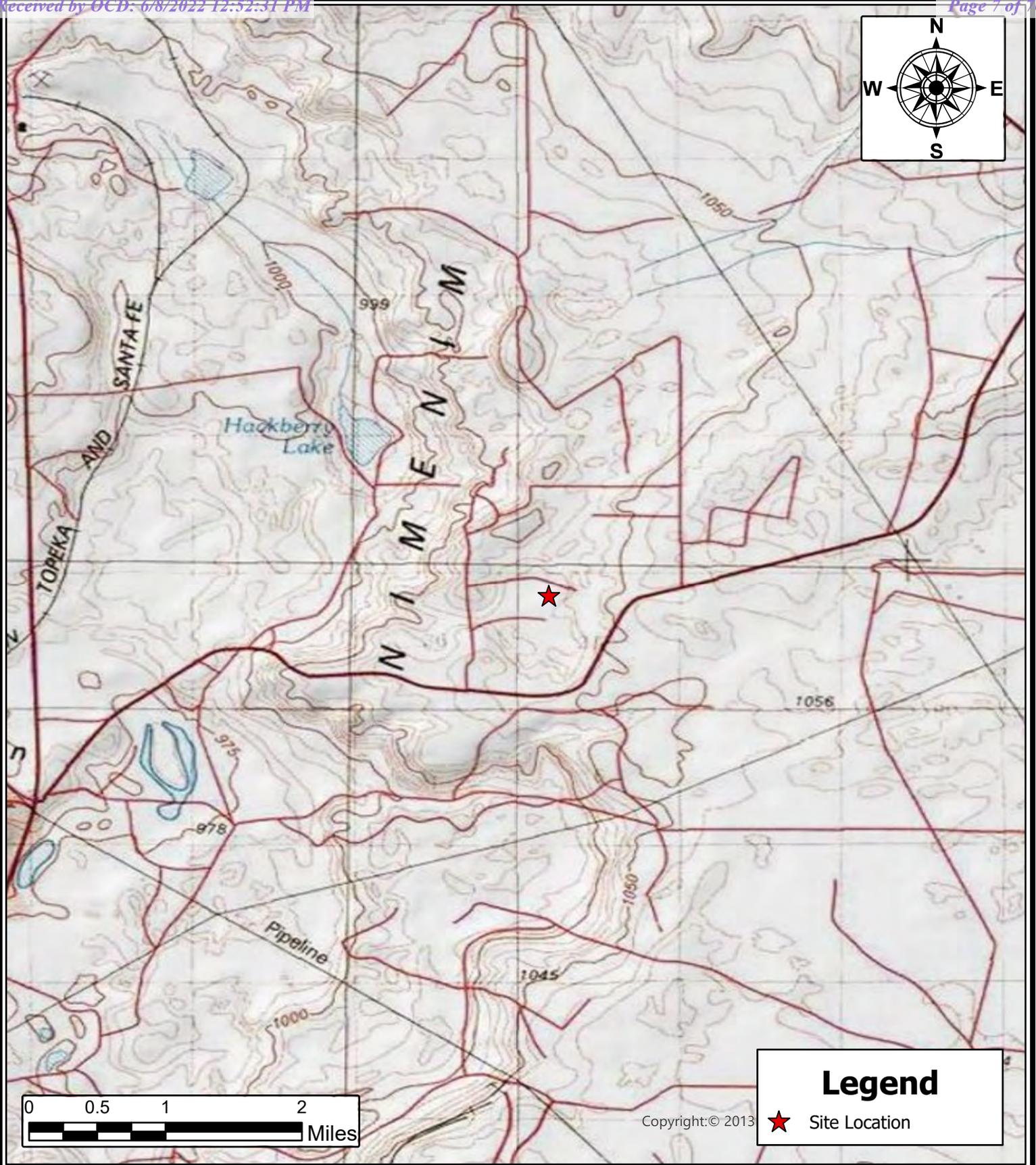
Carmona Resources
 310 West Wall Street, Suite 415
 Midland, Texas 79701

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 1

SHEET NUMBER:
1 of 1



Legend

★ Site Location

Copyright: © 2013

TOPOGRAPHIC MAP
COG OPERATING
 MARAUDER 13 FED 003H (03.09.22)
 EDDY COUNTY, NEW MEXICO
 32.622771, -103.905299

SCALE: As Shown Date: 5/16/2022

CARMONA RESOURCES 

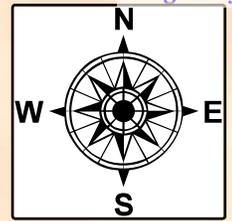
Carmona Resources
 310 West Wall Street, Suite 415
 Midland, Texas 79701

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

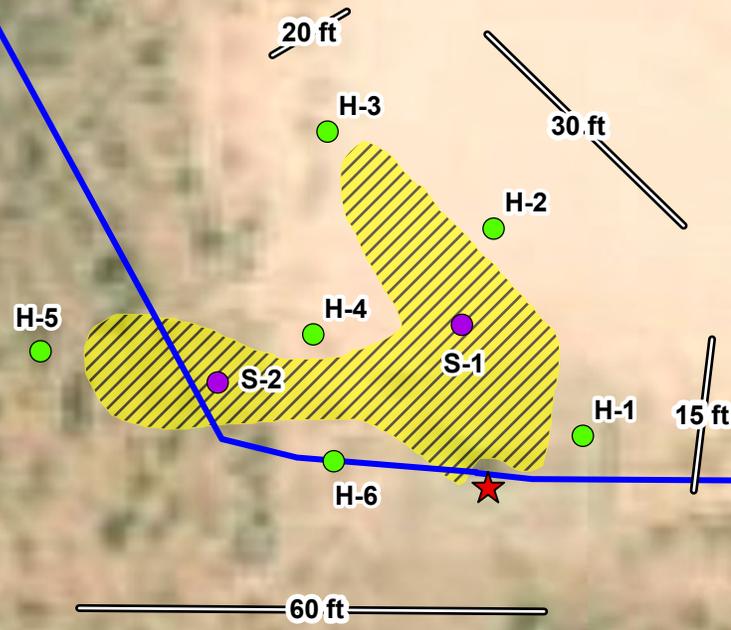
DRAWING NUMBER:
FIGURE 2

SHEET NUMBER:
1 of 1



Pad

Pasture



Legend

- Point of Release
- Sample Points
- Horizontals
- Surface Steel Line
- Area of Concern



SAMPLE LOCATION MAP
COG OPERATING
 MARAUDER 13 FED 003H (03.09.22)
 EDDY COUNTY, NEW MEXICO
 32.622771, -103.905299



Carmona Resources
 310 West Wall Street, Suite 415
 Midland, Texas 79701

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

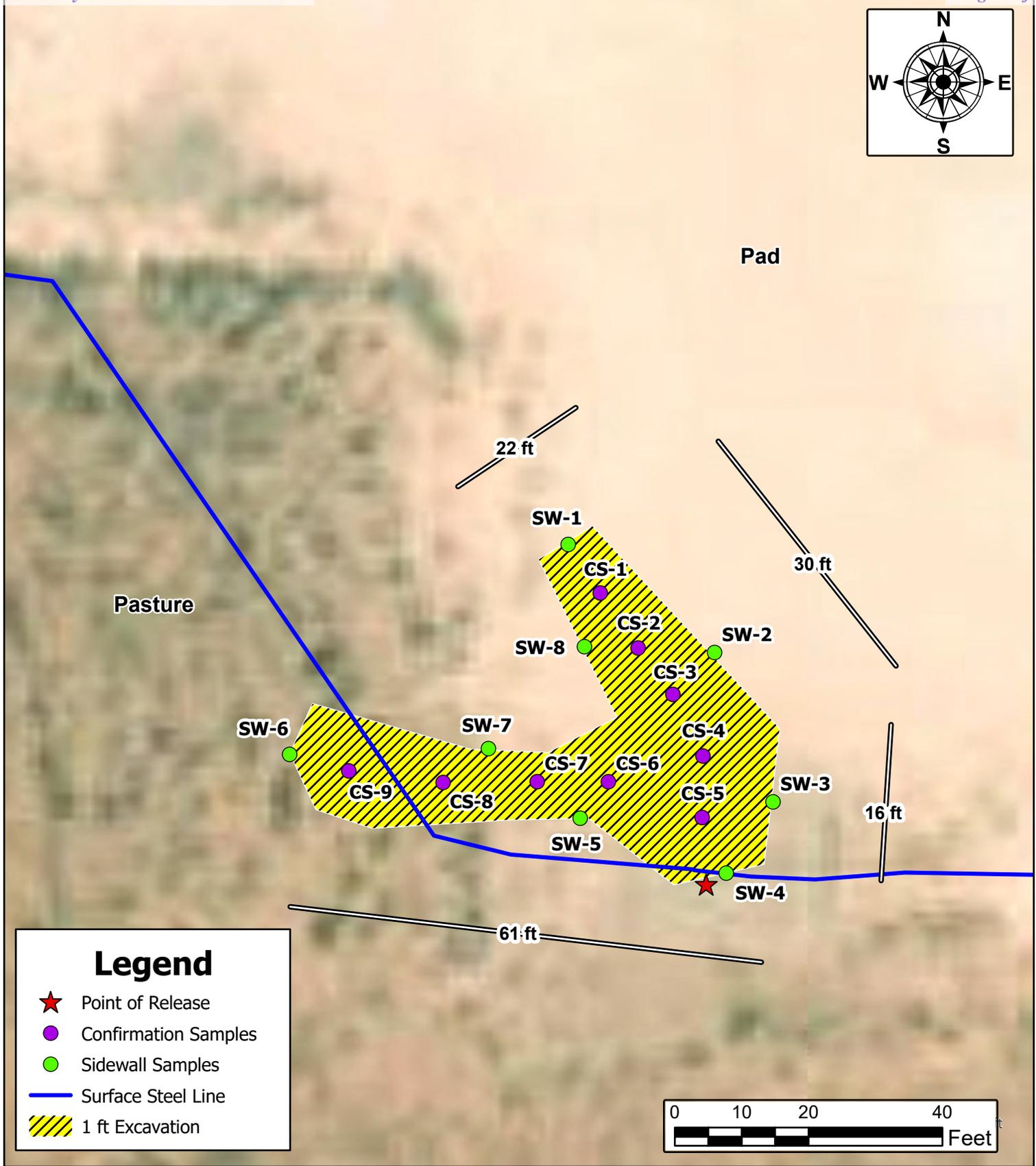
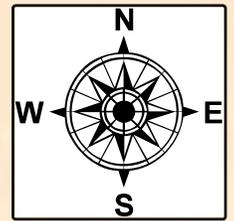
FIGURE 3

SHEET NUMBER:

1 of 1

SCALE: As Shown

Date: 5/16/2022



Legend

- Point of Release
- Confirmation Samples
- Sidewall Samples
- Surface Steel Line
- 1 ft Excavation



EXCAVATION DEPTH MAP
COG OPERATING
 MARAUDER 13 FED 003H (03.09.22)
 EDDY COUNTY, NEW MEXICO
 32.622771, -103.905299

SCALE: As Shown Date: 5/16/2022

Carmona Resources
 310 West Wall Street, Suite 415
 Midland, Texas 79701

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 4

SHEET NUMBER:
1 of 1

APPENDIX A

CARMONA RESOURCES



**Table 1
COG
Marauder 13 Federal Com 003H (03.09.22)
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	3/24/2022	0-0.5	<10.0	360	108	468	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.0	<10.0	58.6	22.9	81.5	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	"	1.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
S-2	3/24/2022	0-0.25	<50.0	6,390	3,520	9,910	0.162	0.945	0.424	1.14	2.67	80.0
	"	0.5	<10.0	15.3	38.5	53.8	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
	"	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-1	3/24/2022	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
H-2	3/24/2022	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
H-3	3/24/2022	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
H-4	3/24/2022	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
H-5	3/24/2022	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
H-6	3/24/2022	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Regulatory Criteria^A						100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(S) Sample Point

(H) Horizontal

 Removed

Table 2
COG
Marauder 13 Federal Com 003H (03.09.22)
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						
CS-1	5/12/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-2	5/12/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-3	5/12/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-4	5/12/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-5	5/12/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16
CS-6	5/12/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-7	5/12/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-8	5/12/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
CS-9	5/12/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-1	5/12/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-2	5/12/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-3	5/12/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-4	5/12/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-5	5/12/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-6	5/12/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-7	5/12/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-8	5/12/2022	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
<i>Regulatory Criteria</i> ^A						100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

^A - Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(CS) Confirmation Sample

(SW) Sidewall

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Concho Operating, LLC

Photograph No. 1

Facility: Marauder 13 Federal Com
003H(03.09.22)

County: Eddy County, New Mexico

Description:
View Southwest of S-1



Photograph No. 2

Facility: Marauder 13 Federal Com
003H(03.09.22)

County: Eddy County, New Mexico

Description:
View East of S-2.



PHOTOGRAPHIC LOG

Concho Operating, LLC

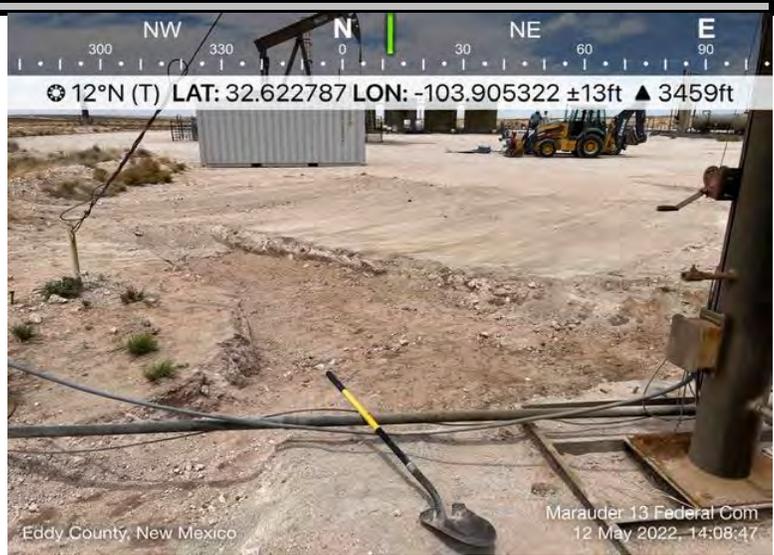
Photograph No. 3

Facility: Marauder 13 Federal Com
003H(03.09.22)

County: Eddy County, New Mexico

Description:

View North of remediation activities.



Photograph No. 4

Facility: Marauder 13 Federal Com
003H(03.09.22)

County: Eddy County, New Mexico

Description:

View East of remediation activities.



APPENDIX C

CARMONA RESOURCES



District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: _____ Title: _____ Signature: <u>Patricia Zapanta</u> _____ Date: _____ email: _____ Telephone: _____
<u>OCD Only</u> Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Jaqui Heredia _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID
District RP
Facility ID
Application ID

Closure

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

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

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

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

Printed Name: _____ Title: _____
 Signature: *Jacqui Nobui* Date: _____
 email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: *Jennifer Nobui* Date: _____

Printed Name: _____ Title: _____

From: Mike Carmona
Sent: Tuesday, May 10, 2022 10:00 AM
To: OCD.Enviro@state.nm.us
Cc: Harris, Jacqui
Subject: COG Marauder 13 Federal Com 003H (03.09.22) Sampling Notification

Good Morning,

This email serves as notification for excavation and confirmation sampling on the COG Marauder 13 Federal Com 003H (03.09.22). Excavation and sampling are scheduled to begin May 12th at 10:00 a.m. (MST). Carmona Resources will be onsite for field and confirmation sampling.

COG Marauder 13 Fed Com 003H (03.09.22)
Sec 31 T19S R31E Unit B
32.622751°, -103.905286°
Eddy County, New Mexico

Mike J. Carmona
310 West Wall Street, Suite 415
Midland TX, 79701
M: 432-813-1992
Mcarmona@carmonaresources.com

CARMONA RESOURCES



APPENDIX D

CARMONA RESOURCES

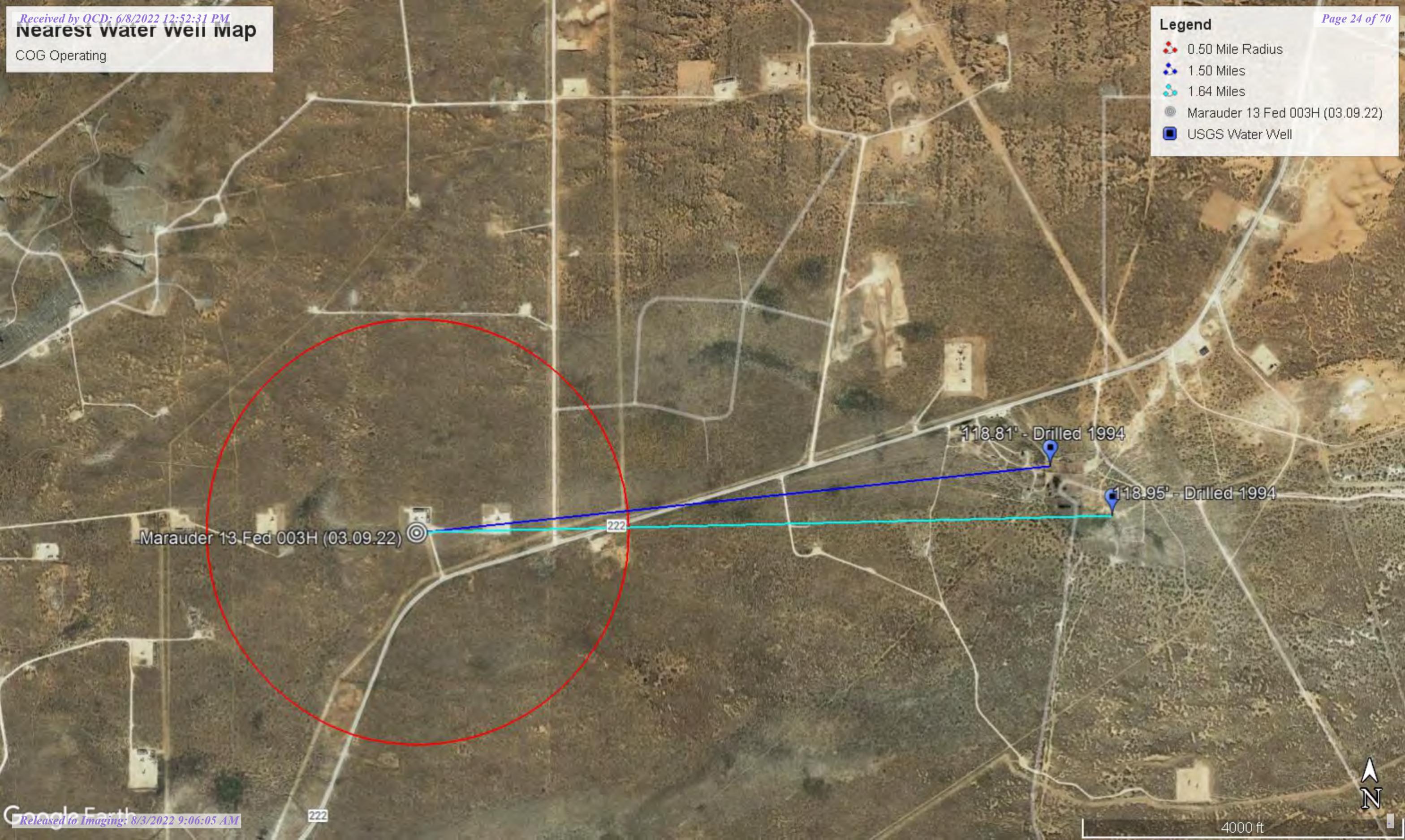


Nearest water well map

COG Operating

Legend

- 0.50 Mile Radius
- 1.50 Miles
- 1.64 Miles
- Marauder 13 Fed 003H (03.09.22)
- USGS Water Well



222

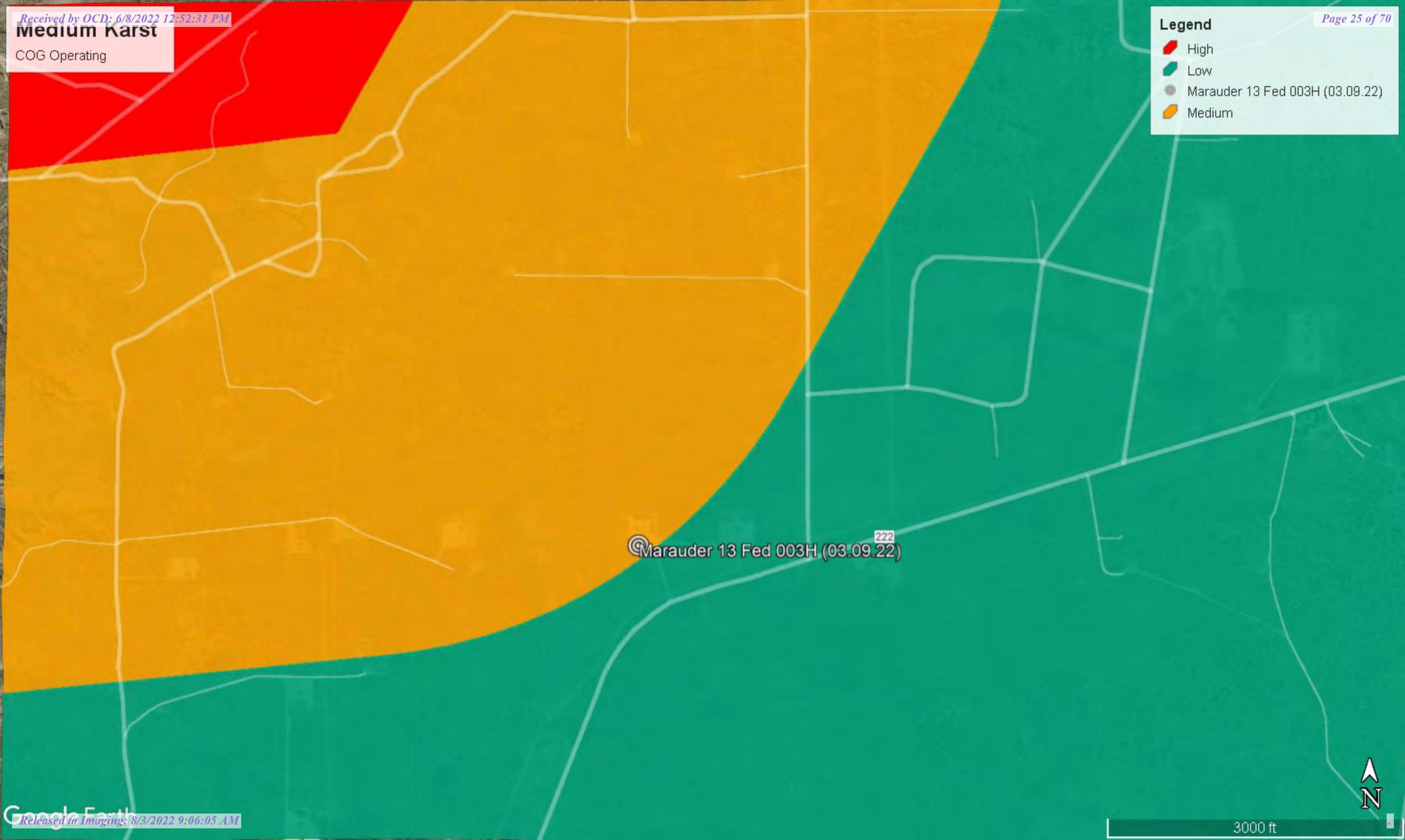
4000 ft

Medium Karst

COG Operating

Legend

- High
- Low
- Medium
- Marauder 13 Fed 003H (03.09.22)



Marauder 13 Fed 003H (03.09.22)

222





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	Depth Well	Depth Water	Water Column
CP 00641 POD1	CP	ED		4	1	36	19S	31E		610247	3609634*	300	130	170
CP 00642 POD1	CP	ED		2	2	25	19S	31E		611025	3611657*	250		
CP 00722 POD1	CP	LE		4	3	3	28	19S	31E	605106	3610273*	200		
CP 00722 POD1	R CP	LE		4	3	3	28	19S	31E	605106	3610273*	200		
CP 00722 POD3	CP	LE		2	4	1	33	19S	31E	605519	3609673*	220	140	80
CP 00723 POD1	CP	ED		2	1	1	33	19S	31E	605111	3610071*	139		
CP 00725 POD1	CP	ED		1	3	3	28	19S	31E	604906	3610473*	231		
CP 00829 POD1	CP	LE			2	4	16	19S	31E	606165	3614009*	120		
CP 00873 POD1	CP	LE			1	1	19	19S	31E	601772	3613147*	340	180	160
CP 01554 POD1	CP	LE		2	2	1	22	19S	31E	607166	3613354	400		
CP 01554 POD2	CP	LE		2	2	1	22	19S	31E	607165	3613322	400		
CP 01864 POD1	CP	ED		4	2	1	34	19S	31E	607068	3609824	110		

Average Depth to Water: **150 feet**
 Minimum Depth: **130 feet**
 Maximum Depth: **180 feet**

Record Count: 12

PLSS Search:

Township: 19S Range: 31E

*UTM location was derived from PLSS - see Help

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



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National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

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- **Notice:** The earlier issue impacting delivery of time-series data to NWISWeb endpoints has been resolved. We apologize for this interruption in service.
- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 323730103524701

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

USGS 323730103524701 19S.31E.28.334133

Eddy County, New Mexico
Latitude 32°37'30", Longitude 103°52'47" NAD27
Land-surface elevation 3,445 feet above NGVD29
The depth of the well is 204.00 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Dockum Group (231DCKM) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1988-03-08			D 62610		3333.62	NGVD29			S	
1988-03-08			D 62611		3335.18	NAVD88			S	
1988-03-08			D 72019	111.38					S	
1994-03-18			D 62610		3326.19	NGVD29			S	
1994-03-18			D 62611		3327.75	NAVD88			S	
1994-03-18			D 72019	118.81					S	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet

Section	Code	Description
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels

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



Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2022-03-23 21:32:10 EDT

0.27 0.23 nadww02



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National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

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- **Notice:** The earlier issue impacting delivery of time-series data to NWISWeb endpoints has been resolved. We apologize for this interruption in service.
- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 323724103523801

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

USGS 323724103523801 19S.31E.28.33433

Eddy County, New Mexico
 Latitude 32°37'24", Longitude 103°52'38" NAD27
 Land-surface elevation 3,450 feet above NAVD88
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.
 This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1948-11-29			D 62610		3345.50	NGVD29	1	Z		
1948-11-29			D 62611		3347.05	NAVD88	1	Z		
1948-11-29			D 72019	102.95			1	Z		
1994-03-18			D 62610		3329.50	NGVD29	1	S		
1994-03-18			D 62611		3331.05	NAVD88	1	S		
1994-03-18			D 72019	118.95			1	S		

Explanation

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

Section	Code	Description
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels

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



Page Contact Information: [New Mexico Water Data Maintainer](#)

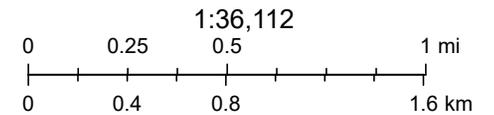
Page Last Modified: 2022-03-23 21:27:19 EDT

0.27 0.24 nadww02

New Mexico NFHL Data



March 23, 2022



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

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APPENDIX E

CARMONA RESOURCES





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

March 29, 2022

CONNER MOEHRING
CARMONA RESOURCES
310 W WALL ST SUITE 415
MIDLAND, TX 79701

RE: MARAUDER 13 FEDERAL COM 003H

Enclosed are the results of analyses for samples received by the laboratory on 03/24/22 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	** (See Notes)
Project Number:	1034 (03.09.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: S - 1 (0-0.5') (H221165-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.75	87.6	2.00	2.43	
Toluene*	<0.050	0.050	03/26/2022	ND	1.98	98.8	2.00	2.68	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	1.99	99.7	2.00	2.43	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.17	103	6.00	1.89	
Total BTEX	<0.300	0.300	03/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/25/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2022	ND	183	91.6	200	3.08	
DRO >C10-C28*	360	10.0	03/26/2022	ND	255	128	200	2.16	
EXT DRO >C28-C36	108	10.0	03/26/2022	ND					

Surrogate: 1-Chlorooctane 75.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	** (See Notes)
Project Number:	1034 (03.09.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: S - 1 (1') (H221165-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.75	87.6	2.00	2.43	
Toluene*	<0.050	0.050	03/26/2022	ND	1.98	98.8	2.00	2.68	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	1.99	99.7	2.00	2.43	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.17	103	6.00	1.89	
Total BTEX	<0.300	0.300	03/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/25/2022	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	03/26/2022	ND	183	91.6	200	3.08	
DRO >C10-C28*	58.6	10.0	03/26/2022	ND	255	128	200	2.16	
EXT DRO >C28-C36	22.9	10.0	03/26/2022	ND					

Surrogate: 1-Chlorooctane 80.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	** (See Notes)
Project Number:	1034 (03.09.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: S - 1 (1.5') (H221165-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2022	ND	1.75	87.6	2.00	2.43		
Toluene*	<0.050	0.050	03/26/2022	ND	1.98	98.8	2.00	2.68		
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	1.99	99.7	2.00	2.43		
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.17	103	6.00	1.89		
Total BTEX	<0.300	0.300	03/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	03/25/2022	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	03/26/2022	ND	183	91.6	200	3.08		
DRO >C10-C28*	<10.0	10.0	03/26/2022	ND	255	128	200	2.16		
EXT DRO >C28-C36	<10.0	10.0	03/26/2022	ND						

Surrogate: 1-Chlorooctane 77.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.8 % 59.5-142

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	** (See Notes)
Project Number:	1034 (03.09.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: S - 2 (0-3") (H221165-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.162	0.050	03/28/2022	ND	1.75	87.6	2.00	2.43	
Toluene*	0.945	0.050	03/28/2022	ND	1.98	98.8	2.00	2.68	
Ethylbenzene*	0.424	0.050	03/28/2022	ND	1.99	99.7	2.00	2.43	
Total Xylenes*	1.14	0.150	03/28/2022	ND	6.17	103	6.00	1.89	
Total BTEX	2.67	0.300	03/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

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	03/25/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	03/25/2022	ND	193	96.4	200	4.29		
DRO >C10-C28*	6390	50.0	03/25/2022	ND	178	89.0	200	3.04	QM-07	
EXT DRO >C28-C36	3520	50.0	03/25/2022	ND						

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 227 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	** (See Notes)
Project Number:	1034 (03.09.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: S - 2 (0.5') (H221165-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.75	87.6	2.00	2.43	
Toluene*	<0.050	0.050	03/26/2022	ND	1.98	98.8	2.00	2.68	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	1.99	99.7	2.00	2.43	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.17	103	6.00	1.89	
Total BTEX	<0.300	0.300	03/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	03/25/2022	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	03/25/2022	ND	193	96.4	200	4.29	
DRO >C10-C28*	15.3	10.0	03/25/2022	ND	178	89.0	200	3.04	
EXT DRO >C28-C36	38.5	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane 86.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.0 % 59.5-142

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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
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	** (See Notes)
Project Number:	1034 (03.09.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: S - 2 (1') (H221165-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.75	87.6	2.00	2.43	
Toluene*	<0.050	0.050	03/26/2022	ND	1.98	98.8	2.00	2.68	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	1.99	99.7	2.00	2.43	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.17	103	6.00	1.89	
Total BTEX	<0.300	0.300	03/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/25/2022	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	03/25/2022	ND	193	96.4	200	4.29	
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	178	89.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.7 % 59.5-142

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	** (See Notes)
Project Number:	1034 (03.09.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: H - 1 (0-0.5') (H221165-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2022	ND	1.75	87.6	2.00	2.43	
Toluene*	<0.050	0.050	03/27/2022	ND	1.98	98.8	2.00	2.68	
Ethylbenzene*	<0.050	0.050	03/27/2022	ND	1.99	99.7	2.00	2.43	
Total Xylenes*	<0.150	0.150	03/27/2022	ND	6.17	103	6.00	1.89	
Total BTEX	<0.300	0.300	03/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/25/2022	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	03/25/2022	ND	193	96.4	200	4.29	
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	178	89.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane 75.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 69.7 % 59.5-142

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	** (See Notes)
Project Number:	1034 (03.09.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: H - 2 (0-0.5') (H221165-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2022	ND	1.75	87.6	2.00	2.43	
Toluene*	<0.050	0.050	03/27/2022	ND	1.98	98.8	2.00	2.68	
Ethylbenzene*	<0.050	0.050	03/27/2022	ND	1.99	99.7	2.00	2.43	
Total Xylenes*	<0.150	0.150	03/27/2022	ND	6.17	103	6.00	1.89	
Total BTEX	<0.300	0.300	03/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/25/2022	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	03/25/2022	ND	193	96.4	200	4.29	
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	178	89.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.2 % 59.5-142

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	** (See Notes)
Project Number:	1034 (03.09.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: H - 3 (0-0.5') (H221165-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2022	ND	1.86	93.0	2.00	3.06	
Toluene*	<0.050	0.050	03/25/2022	ND	2.07	103	2.00	3.16	
Ethylbenzene*	<0.050	0.050	03/25/2022	ND	2.08	104	2.00	3.46	
Total Xylenes*	<0.150	0.150	03/25/2022	ND	6.48	108	6.00	3.43	
Total BTEX	<0.300	0.300	03/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	03/25/2022	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	03/25/2022	ND	193	96.4	200	4.29	
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	178	89.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane 78.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 73.5 % 59.5-142

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	** (See Notes)
Project Number:	1034 (03.09.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: H - 4 (0-0.5') (H221165-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2022	ND	1.86	93.0	2.00	3.06	
Toluene*	<0.050	0.050	03/25/2022	ND	2.07	103	2.00	3.16	
Ethylbenzene*	<0.050	0.050	03/25/2022	ND	2.08	104	2.00	3.46	
Total Xylenes*	<0.150	0.150	03/25/2022	ND	6.48	108	6.00	3.43	
Total BTEX	<0.300	0.300	03/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	03/25/2022	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	03/25/2022	ND	193	96.4	200	4.29	
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	178	89.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane 84.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.2 % 59.5-142

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	** (See Notes)
Project Number:	1034 (03.09.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: H - 5 (0-0.5') (H221165-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2022	ND	1.86	93.0	2.00	3.06	
Toluene*	<0.050	0.050	03/25/2022	ND	2.07	103	2.00	3.16	
Ethylbenzene*	<0.050	0.050	03/25/2022	ND	2.08	104	2.00	3.46	
Total Xylenes*	<0.150	0.150	03/25/2022	ND	6.48	108	6.00	3.43	
Total BTEX	<0.300	0.300	03/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/25/2022	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	03/25/2022	ND	193	96.4	200	4.29	
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	178	89.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane 96.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.6 % 59.5-142

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	** (See Notes)
Project Number:	1034 (03.09.22)	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: H - 6 (0-0.5') (H221165-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2022	ND	1.86	93.0	2.00	3.06	
Toluene*	<0.050	0.050	03/25/2022	ND	2.07	103	2.00	3.16	
Ethylbenzene*	<0.050	0.050	03/25/2022	ND	2.08	104	2.00	3.46	
Total Xylenes*	<0.150	0.150	03/25/2022	ND	6.48	108	6.00	3.43	
Total BTEX	<0.300	0.300	03/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/25/2022	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	03/25/2022	ND	193	96.4	200	4.29	
DRO >C10-C28*	<10.0	10.0	03/25/2022	ND	178	89.0	200	3.04	
EXT DRO >C28-C36	<10.0	10.0	03/25/2022	ND					

Surrogate: 1-Chlorooctane 76.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 71.3 % 59.5-142

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: 102-1105-1

Page 1 of 2

Project Manager:	Conner Moehring	Bill to: (if different)	Jacqui Harris
Company Name:	Carmona Resources	Company Name:	COG
Address:	310 W Wall St Ste 415	Address:	15 W London Rd
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Loving, NM 88256
Phone:	432-813-6823	Email:	jacquiharris@conconphilips.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Spill
State of Project:	
Reporting Level: 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:

Project Name:	Marauder 13 Federal Com 003H (03.09.22)	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush
Project Number:	1034	Due Date:	Standard
Project Location:	Eddy Co, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	CRM	Wet Loc:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <u>3/24/22</u>
PO #:		Thermometer ID:	<u>113</u>
SAMPLE RECEIPT		Correction Factor:	<u>-0.5%</u>
Received Inlet:	Temp Blank: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	<u>7.9°C</u>
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Corrected Temperature:	
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Total Containers:			

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters			Sample Comments
							BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	
S-1 (0-0.5')	3/24/22		X		G	1	X	X	X	
S-1 (1')	3/24/22		X		G	1	X	X	X	
S-1 (1.5')	3/24/22		X		G	1	X	X	X	
S-2 (0-3")	3/24/22		X		G	1	X	X	X	
S-2 (0.5')	3/24/22		X		G	1	X	X	X	
S-2 (1')	3/24/22		X		G	1	X	X	X	
H-1 (0-0.5')	3/24/22		X		G	1	X	X	X	
H-2 (0-0.5')	3/24/22		X		G	1	X	X	X	
H-3 (0-0.5')	3/24/22		X		G	1	X	X	X	
H-4 (0-0.5')	3/24/22		X		G	1	X	X	X	

Comments:

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Ben McHenry</i>	<i>Stacy...</i>	3/24/22 1425			

Revised Date: 05/07/2020 Rev. 2020.1



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

May 13, 2022

CONNER MOEHRING
CARMONA RESOURCES
310 W WALL ST SUITE 415
MIDLAND, TX 79701

RE: MARAUDER 13 FEDERAL COM 003H

Enclosed are the results of analyses for samples received by the laboratory on 05/12/22 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	05/12/2022	Sampling Date:	05/12/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	Cool & Intact
Project Number:	1034 (03.09.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: CS - 1 (1') (H222017-01)

BTEX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2022	ND	2.05	103	2.00	5.74		
Toluene*	<0.050	0.050	05/13/2022	ND	2.00	100	2.00	6.15		
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.95	97.7	2.00	6.98		
Total Xylenes*	<0.150	0.150	05/13/2022	ND	6.05	101	6.00	6.68		
Total BTEX	<0.300	0.300	05/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/13/2022	ND	448	112	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	05/12/2022	ND	198	98.9	200	8.73		
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	210	105	200	12.5		
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND						

Surrogate: 1-Chlorooctane 70.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.9 % 59.5-142

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
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	05/12/2022	Sampling Date:	05/12/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	Cool & Intact
Project Number:	1034 (03.09.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: CS - 2 (1') (H222017-02)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/13/2022	ND	2.05	103	2.00	5.74	
Toluene*	<0.050	0.050	05/13/2022	ND	2.00	100	2.00	6.15	
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.95	97.7	2.00	6.98	
Total Xylenes*	<0.150	0.150	05/13/2022	ND	6.05	101	6.00	6.68	
Total BTEX	<0.300	0.300	05/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/13/2022	ND	448	112	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	05/12/2022	ND	198	98.9	200	8.73	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	210	105	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.9 % 59.5-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	05/12/2022	Sampling Date:	05/12/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	Cool & Intact
Project Number:	1034 (03.09.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: CS - 3 (1') (H222017-03)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/13/2022	ND	2.05	103	2.00	5.74	
Toluene*	<0.050	0.050	05/13/2022	ND	2.00	100	2.00	6.15	
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.95	97.7	2.00	6.98	
Total Xylenes*	<0.150	0.150	05/13/2022	ND	6.05	101	6.00	6.68	
Total BTEX	<0.300	0.300	05/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/13/2022	ND	448	112	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	05/12/2022	ND	198	98.9	200	8.73	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	210	105	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 76.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.1 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	05/12/2022	Sampling Date:	05/12/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	Cool & Intact
Project Number:	1034 (03.09.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: CS - 4 (1') (H222017-04)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/13/2022	ND	2.05	103	2.00	5.74	
Toluene*	<0.050	0.050	05/13/2022	ND	2.00	100	2.00	6.15	
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.95	97.7	2.00	6.98	
Total Xylenes*	<0.150	0.150	05/13/2022	ND	6.05	101	6.00	6.68	
Total BTEX	<0.300	0.300	05/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/13/2022	ND	448	112	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	05/12/2022	ND	198	98.9	200	8.73	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	210	105	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 74.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	05/12/2022	Sampling Date:	05/12/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	Cool & Intact
Project Number:	1034 (03.09.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: CS - 5 (1') (H222017-05)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/13/2022	ND	2.05	103	2.00	5.74	
Toluene*	<0.050	0.050	05/13/2022	ND	2.00	100	2.00	6.15	
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.95	97.7	2.00	6.98	
Total Xylenes*	<0.150	0.150	05/13/2022	ND	6.05	101	6.00	6.68	
Total BTEX	<0.300	0.300	05/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/13/2022	ND	448	112	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	05/12/2022	ND	198	98.9	200	8.73	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	210	105	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 78.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.9 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	05/12/2022	Sampling Date:	05/12/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	Cool & Intact
Project Number:	1034 (03.09.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: CS - 6 (1') (H222017-06)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/13/2022	ND	2.05	103	2.00	5.74	
Toluene*	<0.050	0.050	05/13/2022	ND	2.00	100	2.00	6.15	
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.95	97.7	2.00	6.98	
Total Xylenes*	<0.150	0.150	05/13/2022	ND	6.05	101	6.00	6.68	
Total BTEX	<0.300	0.300	05/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/13/2022	ND	448	112	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	05/12/2022	ND	198	98.9	200	8.73	
DRO >C10-C28*	<10.0	10.0	05/12/2022	ND	210	105	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2022	ND					

Surrogate: 1-Chlorooctane 83.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	05/12/2022	Sampling Date:	05/12/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	Cool & Intact
Project Number:	1034 (03.09.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: CS - 7 (1') (H222017-07)

BTEX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2022	ND	2.05	103	2.00	5.74		
Toluene*	<0.050	0.050	05/13/2022	ND	2.00	100	2.00	6.15		
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.95	97.7	2.00	6.98		
Total Xylenes*	<0.150	0.150	05/13/2022	ND	6.05	101	6.00	6.68		
Total BTEX	<0.300	0.300	05/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/13/2022	ND	448	112	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	05/13/2022	ND	198	98.9	200	8.73		
DRO >C10-C28*	<10.0	10.0	05/13/2022	ND	210	105	200	12.5		
EXT DRO >C28-C36	<10.0	10.0	05/13/2022	ND						

Surrogate: 1-Chlorooctane 77.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.4 % 59.5-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	05/12/2022	Sampling Date:	05/12/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	Cool & Intact
Project Number:	1034 (03.09.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: CS - 8 (1') (H222017-08)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/13/2022	ND	2.02	101	2.00	5.52	
Toluene*	<0.050	0.050	05/13/2022	ND	1.98	99.2	2.00	5.81	
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.87	93.6	2.00	5.92	
Total Xylenes*	<0.150	0.150	05/13/2022	ND	5.85	97.5	6.00	5.79	
Total BTEX	<0.300	0.300	05/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/13/2022	ND	448	112	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	05/13/2022	ND	198	98.9	200	8.73	
DRO >C10-C28*	<10.0	10.0	05/13/2022	ND	210	105	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	05/13/2022	ND					

Surrogate: 1-Chlorooctane 78.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.3 % 59.5-142

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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
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	05/12/2022	Sampling Date:	05/12/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	Cool & Intact
Project Number:	1034 (03.09.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: CS - 9 (1') (H222017-09)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2022	ND	2.02	101	2.00	5.52		
Toluene*	<0.050	0.050	05/13/2022	ND	1.98	99.2	2.00	5.81		
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.87	93.6	2.00	5.92		
Total Xylenes*	<0.150	0.150	05/13/2022	ND	5.85	97.5	6.00	5.79		
Total BTEX	<0.300	0.300	05/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/13/2022	ND	448	112	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	05/13/2022	ND	198	98.9	200	8.73		
DRO >C10-C28*	<10.0	10.0	05/13/2022	ND	210	105	200	12.5		
EXT DRO >C28-C36	<10.0	10.0	05/13/2022	ND						

Surrogate: 1-Chlorooctane 80.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	05/12/2022	Sampling Date:	05/12/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	Cool & Intact
Project Number:	1034 (03.09.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: SW - 1 (1') (H222017-10)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2022	ND	2.02	101	2.00	5.52		
Toluene*	<0.050	0.050	05/13/2022	ND	1.98	99.2	2.00	5.81		
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.87	93.6	2.00	5.92		
Total Xylenes*	<0.150	0.150	05/13/2022	ND	5.85	97.5	6.00	5.79		
Total BTEX	<0.300	0.300	05/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/13/2022	ND	448	112	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	05/13/2022	ND	198	98.9	200	8.73		
DRO >C10-C28*	<10.0	10.0	05/13/2022	ND	210	105	200	12.5		
EXT DRO >C28-C36	<10.0	10.0	05/13/2022	ND						

Surrogate: 1-Chlorooctane 73.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.3 % 59.5-142

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	05/12/2022	Sampling Date:	05/12/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	Cool & Intact
Project Number:	1034 (03.09.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: SW - 2 (1') (H222017-11)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/13/2022	ND	2.02	101	2.00	5.52	
Toluene*	<0.050	0.050	05/13/2022	ND	1.98	99.2	2.00	5.81	
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.87	93.6	2.00	5.92	
Total Xylenes*	<0.150	0.150	05/13/2022	ND	5.85	97.5	6.00	5.79	
Total BTEX	<0.300	0.300	05/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/13/2022	ND	448	112	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	05/13/2022	ND	198	98.9	200	8.73	
DRO >C10-C28*	<10.0	10.0	05/13/2022	ND	210	105	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	05/13/2022	ND					

Surrogate: 1-Chlorooctane 71.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	05/12/2022	Sampling Date:	05/12/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	Cool & Intact
Project Number:	1034 (03.09.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: SW - 3 (1') (H222017-12)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/13/2022	ND	2.02	101	2.00	5.52	
Toluene*	<0.050	0.050	05/13/2022	ND	1.98	99.2	2.00	5.81	
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.87	93.6	2.00	5.92	
Total Xylenes*	<0.150	0.150	05/13/2022	ND	5.85	97.5	6.00	5.79	
Total BTEX	<0.300	0.300	05/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/13/2022	ND	448	112	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	05/13/2022	ND	198	98.9	200	8.73	
DRO >C10-C28*	<10.0	10.0	05/13/2022	ND	210	105	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	05/13/2022	ND					

Surrogate: 1-Chlorooctane 76.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.5 % 59.5-142

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	05/12/2022	Sampling Date:	05/12/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	Cool & Intact
Project Number:	1034 (03.09.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: SW - 4 (1') (H222017-13)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/13/2022	ND	2.02	101	2.00	5.52	
Toluene*	<0.050	0.050	05/13/2022	ND	1.98	99.2	2.00	5.81	
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.87	93.6	2.00	5.92	
Total Xylenes*	<0.150	0.150	05/13/2022	ND	5.85	97.5	6.00	5.79	
Total BTEX	<0.300	0.300	05/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/13/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2022	ND	198	98.9	200	8.73	
DRO >C10-C28*	<10.0	10.0	05/13/2022	ND	210	105	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	05/13/2022	ND					

Surrogate: 1-Chlorooctane 74.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.1 % 59.5-142

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	05/12/2022	Sampling Date:	05/12/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	Cool & Intact
Project Number:	1034 (03.09.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: SW - 5 (1') (H222017-14)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2022	ND	2.02	101	2.00	5.52		
Toluene*	<0.050	0.050	05/13/2022	ND	1.98	99.2	2.00	5.81		
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.87	93.6	2.00	5.92		
Total Xylenes*	<0.150	0.150	05/13/2022	ND	5.85	97.5	6.00	5.79		
Total BTEX	<0.300	0.300	05/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/13/2022	ND	198	98.9	200	8.73		
DRO >C10-C28*	<10.0	10.0	05/13/2022	ND	210	105	200	12.5		
EXT DRO >C28-C36	<10.0	10.0	05/13/2022	ND						

Surrogate: 1-Chlorooctane 79.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.3 % 59.5-142

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	05/12/2022	Sampling Date:	05/12/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	Cool & Intact
Project Number:	1034 (03.09.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: SW - 6 (1') (H222017-15)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2022	ND	2.02	101	2.00	5.52		
Toluene*	<0.050	0.050	05/13/2022	ND	1.98	99.2	2.00	5.81		
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.87	93.6	2.00	5.92		
Total Xylenes*	<0.150	0.150	05/13/2022	ND	5.85	97.5	6.00	5.79		
Total BTEX	<0.300	0.300	05/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/13/2022	ND	198	98.9	200	8.73		
DRO >C10-C28*	<10.0	10.0	05/13/2022	ND	210	105	200	12.5		
EXT DRO >C28-C36	<10.0	10.0	05/13/2022	ND						

Surrogate: 1-Chlorooctane 78.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.7 % 59.5-142

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	05/12/2022	Sampling Date:	05/12/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	Cool & Intact
Project Number:	1034 (03.09.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: SW - 7 (1') (H222017-16)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2022	ND	2.02	101	2.00	5.52		
Toluene*	<0.050	0.050	05/13/2022	ND	1.98	99.2	2.00	5.81		
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.87	93.6	2.00	5.92		
Total Xylenes*	<0.150	0.150	05/13/2022	ND	5.85	97.5	6.00	5.79		
Total BTEX	<0.300	0.300	05/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/13/2022	ND	198	98.9	200	8.73		
DRO >C10-C28*	<10.0	10.0	05/13/2022	ND	210	105	200	12.5		
EXT DRO >C28-C36	<10.0	10.0	05/13/2022	ND						

Surrogate: 1-Chlorooctane 74.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.0 % 59.5-142

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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
 CONNER MOEHRING
 310 W WALL ST SUITE 415
 MIDLAND TX, 79701
 Fax To:

Received:	05/12/2022	Sampling Date:	05/12/2022
Reported:	05/13/2022	Sampling Type:	Soil
Project Name:	MARAUDER 13 FEDERAL COM 003H	Sampling Condition:	Cool & Intact
Project Number:	1034 (03.09.22)	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: SW - 8 (1') (H222017-17)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2022	ND	2.02	101	2.00	5.52		
Toluene*	<0.050	0.050	05/13/2022	ND	1.98	99.2	2.00	5.81		
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.87	93.6	2.00	5.92		
Total Xylenes*	<0.150	0.150	05/13/2022	ND	5.85	97.5	6.00	5.79		
Total BTEX	<0.300	0.300	05/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/13/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/13/2022	ND	198	98.9	200	8.73		
DRO >C10-C28*	<10.0	10.0	05/13/2022	ND	210	105	200	12.5		
EXT DRO >C28-C36	<10.0	10.0	05/13/2022	ND						

Surrogate: 1-Chlorooctane 79.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H222017

Page 2 of 2

Project Manager:	Conner Moehring	Bill to: (if different)	Jaquie Harris
Company Name:	Carmona Resources	Company Name:	COG
Address:	310 W Wall St Ste 415	Address:	15 W London Rd
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Loving, NM 88256
Phone:	432-813-6823	Email:	jacquie.harris@conocophillips.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Rowfields <input type="checkbox"/> RC <input type="checkbox"/> perfund
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:

Project Name:	Project Number:	Project Location:	Sampler's Name:	PO #:	Turn Around		Pres. Code	ANALYSIS REQUEST											
					<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush		Due Date:	24 hour	Parameters									
Marauder 13 Fed Com 3H (03.09.22)	1034	Eddy Co, NM	CCM					BTEX 8021B											
								TPH 8015M (GRO + DRO + MRO)											
								Chloride 4500											
Received Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No Cooler Custody Seals: Yes <input type="radio"/> No <input checked="" type="radio"/> N/A Sample Custody Seals: Yes <input type="radio"/> No <input checked="" type="radio"/> N/A Total Containers:								Temp Blank: <input checked="" type="radio"/> Yes <input type="radio"/> No		Thermometer ID: #113		Wet Ice: Yes <input type="radio"/> No		Correction Factor: -0.5°C		Temperature Reading: 3.7°C		Corrected Temperature: 3.2°C	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Sample Comments												
SW-2 (1')	5/12/2022		X		Comp	1	X												
SW-3 (1')	5/12/2022		X		Comp	1	X												
SW-4 (1')	5/12/2022		X		Comp	1	X												
SW-5 (1')	5/12/2022		X		Comp	1	X												
SW-6 (1')	5/12/2022		X		Comp	1	X												
SW-7 (1')	5/12/2022		X		Comp	1	X												
SW-8 (1')	5/12/2022		X		Comp	1	X												

Comments:

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

5/12/22 14:00

Jaquie Harris

5-12-22 1410

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

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

CONDITIONS

Action 115070

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 115070
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	8/3/2022