



SITE INFORMATION

Closure Report
Medwick 32 Federal Com 4H-12H
Incident ID: NAPP2326832122
Eddy County, New Mexico
Unit H Sec 32 T26S R27E
32.00070°, -104.20671°

Point of Release:

Equipment Failure, a kimray water dump washed out due to internal erosion, cutting a hole in the bottom of the water dump and through the lined containment under the dump

Release Date: 09/24/2023

Volume Released: 1 Barrel of Crude Oil & 14 Barrels of Produced Water

Volume Recovered: 1 Barrel of Crude Oil & 13 Barrels of Produced Water

CARMONA RESOURCES



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

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



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April 3, 2024

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

Re: Closure Report
Medwick 32 Federal Com 4H-12H
Incident ID: NAPP2326832122
Cimarex Energy Co.
Site Location: Unit H, S32, T26S, R27E
(Lat 32.00071°, Long -104.20671°)
Eddy County, New Mexico

Mr. Bratcher:

On behalf of Cimarex Energy Co. (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for the Medwick 32 Federal Com 4H-12H. The site is located at 32.00070°, -104.20671° within Unit H, S32, T26S, R27E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on September 24, 2023, caused by a kimray water dump washing out due to internal erosion, cutting a hole in the bottom of the water dump and through the lined containment under the dump. It resulted in approximately one (1) barrel of crude oil and fourteen (14) barrels of produced water. One (1) barrel of crude oil and thirteen (13) barrels of produced water were recovered. The impacted area is located on the pad within the containment area. Refer to Figure 3 for a spill overview. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest identified well is approximately 2.44 miles Northeast of the site in S22, T26S, R27E and was drilled in 2002. The well has a reported depth to groundwater of 50' feet below the ground surface (ft bgs). A copy of the associated Summary Report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

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

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



4.0 Site Assessment Activities

Initial Soil Assessment

On October 3, 2023, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts. To assess the vertical and horizontal extent, thirteen (13) soil samples were advanced to depths ranging from the surface to 1.5' bgs until refusal due to a dense geological formation. See Figure 3 for sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. Refer to Table 1.

Horizontal Delineation

The areas of S-1, S-5, S-6, S-7, S-8, S-9, S-11 and S-14 horizontally define the spill area and were below regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

Vertical Delineation

The areas of S-2, S-3, S-4, S-10, S-12, and S-13 were not vertically delineated due to a dense rock layer during the initial soil assessment. Refer to Table 1.

5.0 Remediation Activities

On January 29, 2024, Cimarex roustabout crews began deconstructing production equipment and lined containment areas that were impacted during this spill incident. All production equipment and pipelines were removed and relocated so that oil and gas production can continue while remediation activities took place. During this time, a closure extension was requested and approved by the NMOCD to allow time for the major facility deconstruction that was ongoing and subsequent excavation of contamination onsite. See NMOCD correspondence in Appendix C.

Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via web portal on March 25, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-2, S-3, S-4, S-12 & S-13 were excavated to a depth of 3.0' bgs. The area of S-10 was excavated to a depth of 4.0' bgs. A total of thirteen (13) confirmation floor samples (CS-1 through CS-13) and ten (10) sidewall samples (SW-1 through SW-10) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA Method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

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

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 2,250 square feet and 300 cubic yards of material were excavated and transported offsite for proper disposal.



6.0 Conclusions

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

Sincerely,

Carmona Resources, LLC

Ashton Thielke
Sr. Project Manager

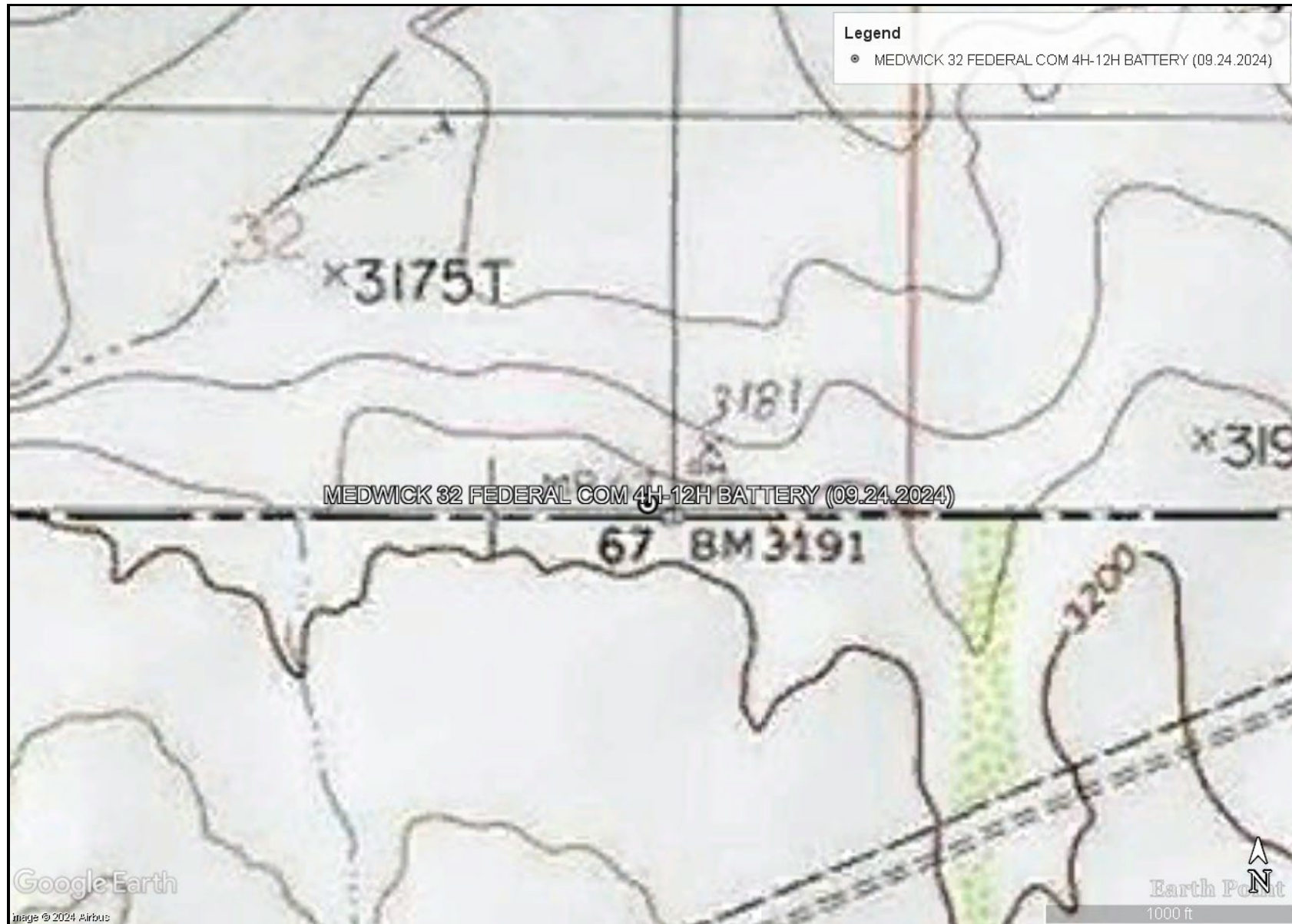
Clinton Merritt
Sr. Project Manager

FIGURES

CARMONA RESOURCES



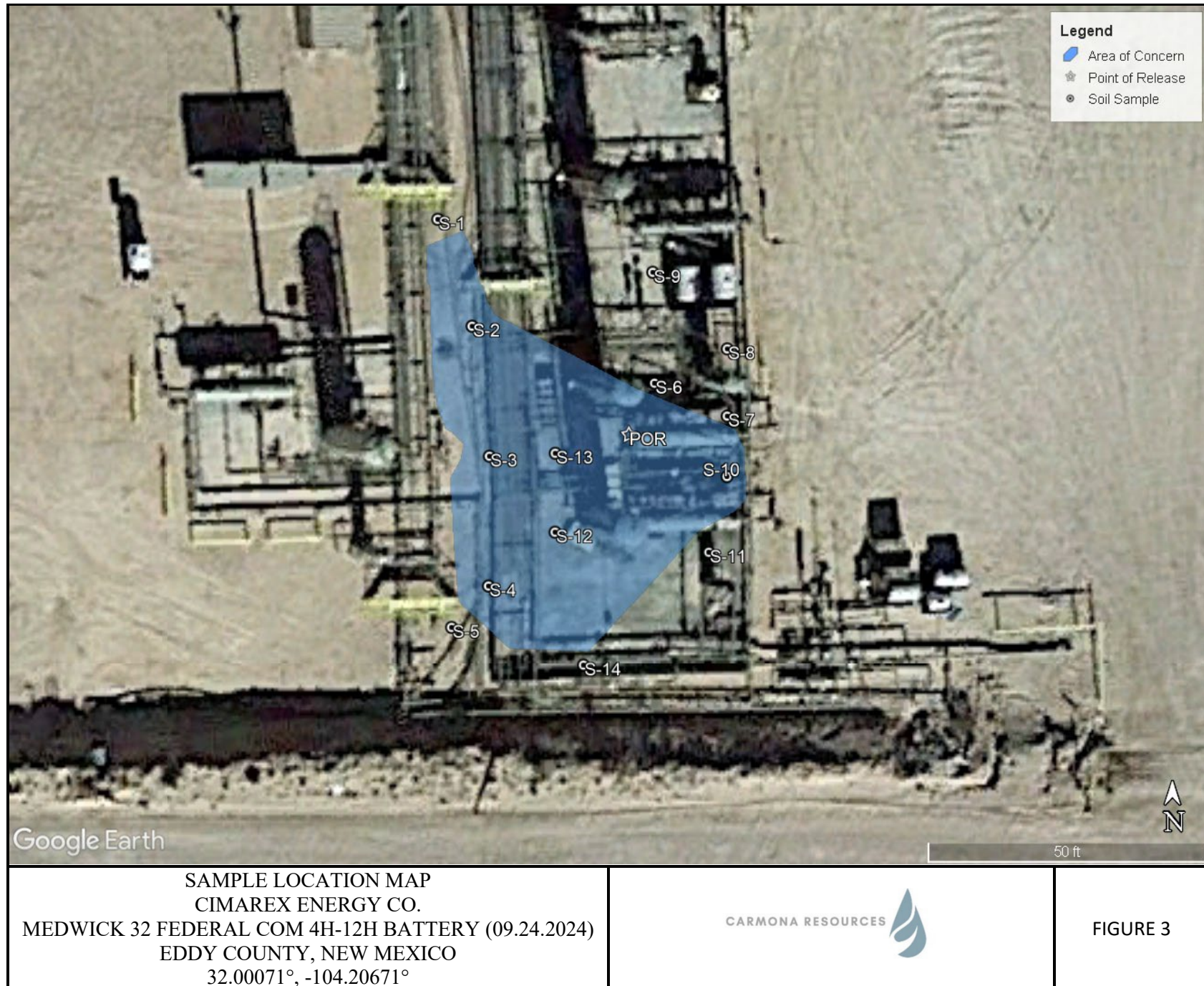


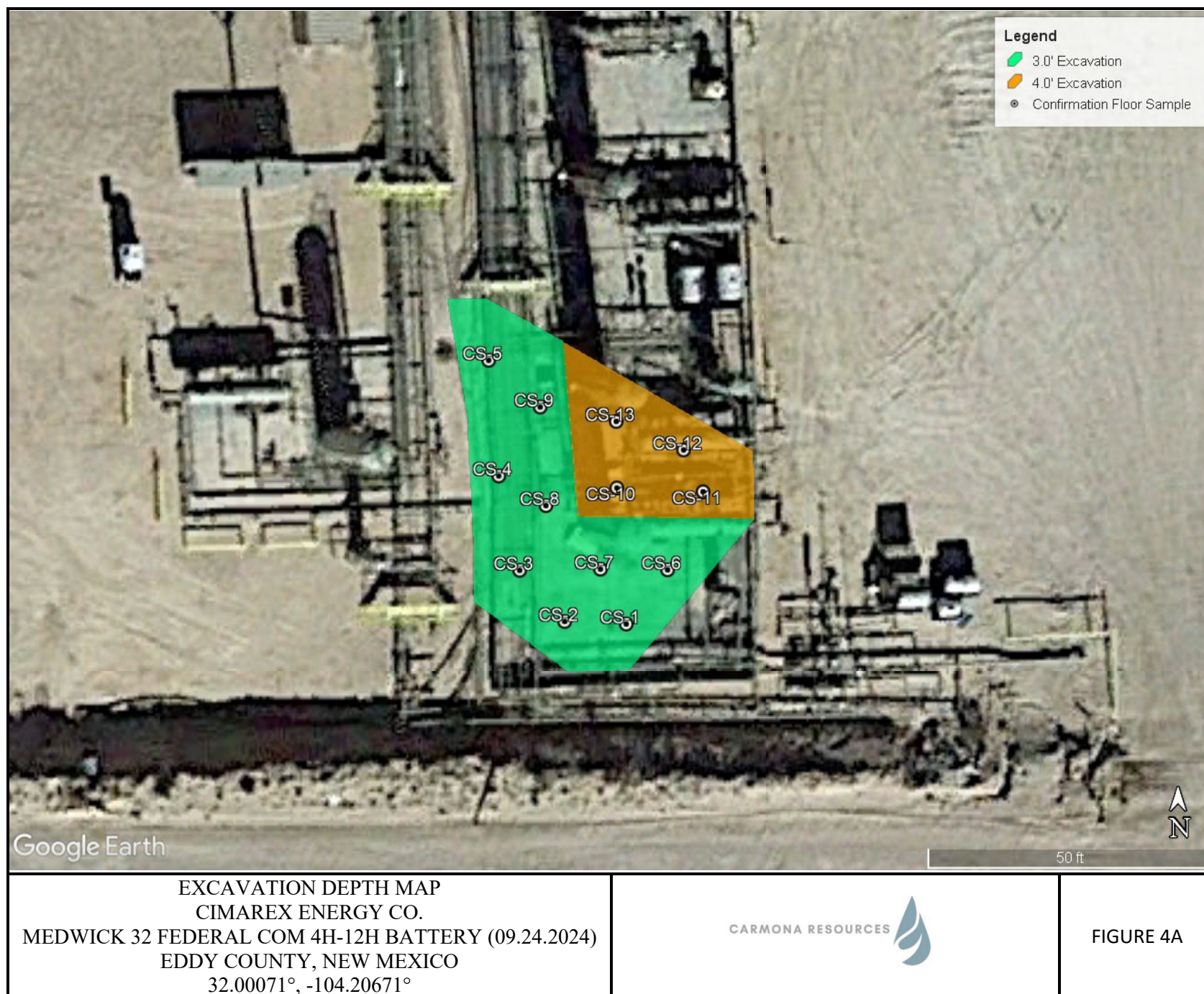


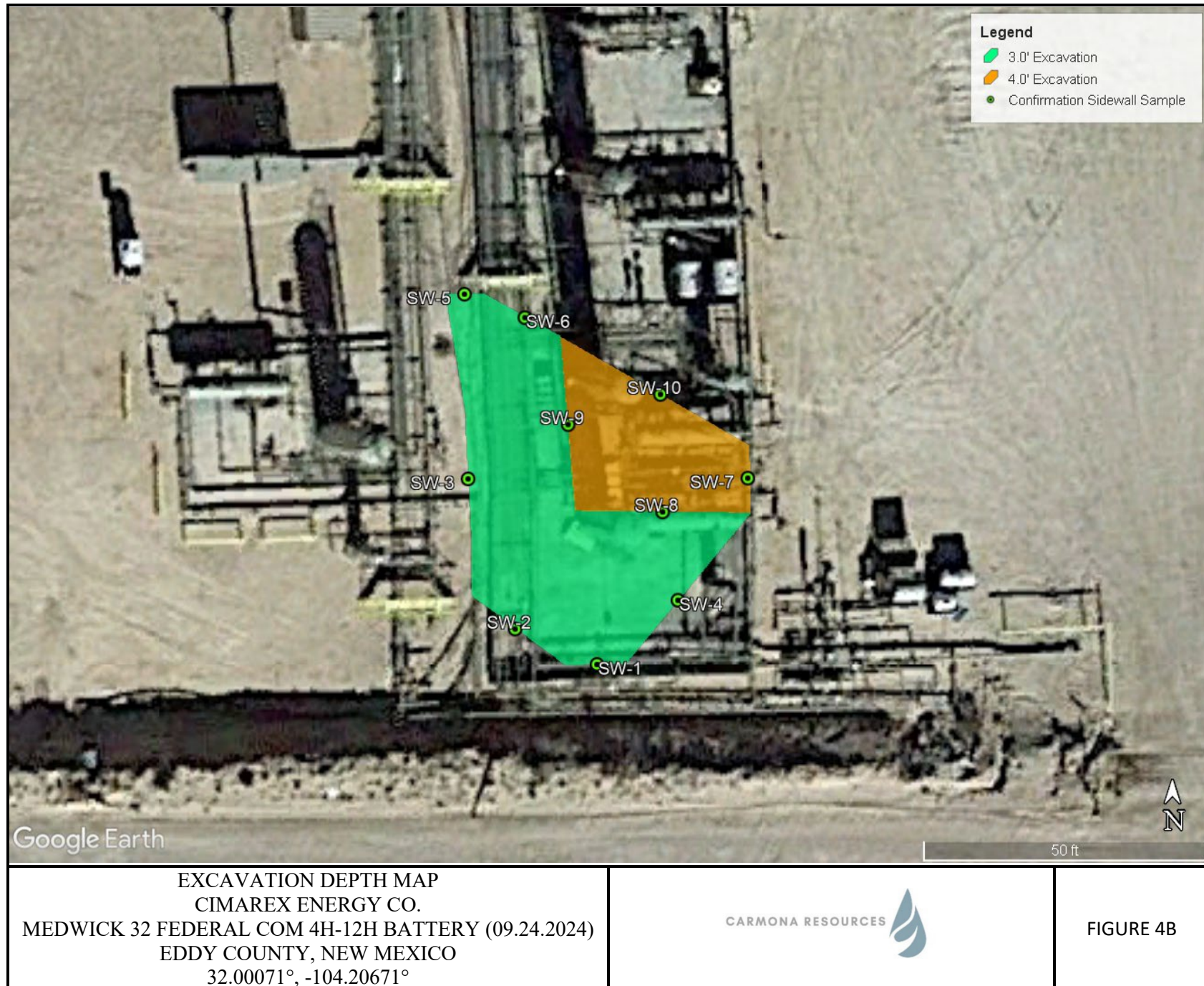
TOPOGRAPHIC MAP
CIMAREX ENERGY CO.
MEDWICK 32 FEDERAL COM 4H-12H BATTERY (09.24.2024)
EDDY COUNTY, NEW MEXICO
32.00071°, -104.20671°



FIGURE 2







APPENDIX A

CARMONA RESOURCES



Table 1
Cimarex Energy Co.
Medwick 32 Federal Com 4H-12H
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	10/3/2023	0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
S-2	10/3/2023	0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	8,800
S-3	10/3/2023	0-1.0'	244	748	117	1,109	<0.050	0.899	0.858	8.00	9.76	1,570
S-4	10/3/2023	0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,520
S-5	10/3/2023	0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
S-6	10/3/2023	0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
S-7	10/3/2023	0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
S-8	10/3/2023	0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
S-9	10/3/2023	0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
S-10	10/3/2023	0-1.0'	<10.0	136	12.1	148	<0.050	<0.050	<0.050	<0.150	<0.300	160
S-11	10/3/2023	0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
S-12	10/3/2023	0-1.0'	116	355	44.0	515	<0.050	0.588	0.378	3.41	4.38	1,800
	"	1.0'-1.5'	<10.0	12.3	<10.0	12.3	0.061	0.185	<0.050	0.253	0.499	3,040
S-13	10/3/2023	0-1.0'	1,130	1,960	260	3,350	1.83	13.4	4.59	34.3	54.1	5,360
	"	1.0'-1.5'	26.7	150	34.4	211	<0.050	0.234	0.106	0.969	1.31	12,200
S-14	10/3/2023	0-1.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
Regulatory Criteria ^							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

^ - Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(S) Sample Point

Removed

Table 2
Cimarex Energy Co.
Medwick 32 Federal Com 4H-12H
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	3/28/2024	3.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	74.3
CS-2	3/28/2024	3.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	128
CS-3	3/28/2024	3.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-4	3/28/2024	3.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	83.7
CS-5	3/28/2024	3.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-6	3/28/2024	3.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-7	3/28/2024	3.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.83
CS-8	3/28/2024	3.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.5
CS-9	3/28/2024	3.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-10	3/28/2024	4.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-11	3/28/2024	4.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-12	3/28/2024	4.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CS-13	3/28/2024	4.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-1	3/28/2024	3.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-2	3/28/2024	3.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-3	3/28/2024	3.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.88
SW-4	3/28/2024	3.0'	ND	ND	ND	ND	ND	ND	ND	0.00687	ND	ND
SW-5	3/28/2024	3.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-6	3/28/2024	3.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-7	3/28/2024	4.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-8	3/28/2024	1.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SW-9	3/28/2024	1.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	52.1
SW-10	3/28/2024	4.0'	ND	ND	ND	ND	ND	ND	ND	ND	ND	168
Regulatory Criteria ^A							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

(ND) Not Detected

^A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(CS) Confirmation Sample

(SW) Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Cimarex Energy Co.

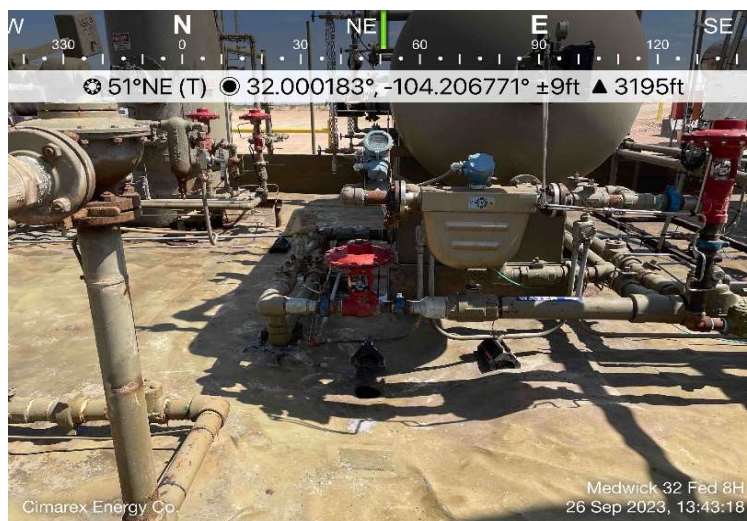
Photograph No. 1

Facility: MEDWICK 32 FEDERAL COM 4H-12H BATTERY

County: Eddy County, New Mexico

Description:

View Northeast of point of release, water dump washed out with hole cut in the containment.



Photograph No. 2

Facility: MEDWICK 32 FEDERAL COM 4H-12H BATTERY

County: Eddy County, New Mexico

Description:

View Northeast of point of release, water dump washed out and hole cut in the containment.



Photograph No. 3

Facility: MEDWICK 32 FEDERAL COM 4H-12H BATTERY

County: Eddy County, New Mexico

Description:

View Southeast, area with entire containment and equipment removed before excavation.



PHOTOGRAPHIC LOG

Cimarex Energy Co.

Photograph No. 4

Facility: MEDWICK 32 FEDERAL COM 4H-12H BATTERY

County: Eddy County, New Mexico

Description:

View South, area with entire containment and equipment removed before excavation.



Photograph No. 5

Facility: MEDWICK 32 FEDERAL COM 4H-12H BATTERY

County: Eddy County, New Mexico

Description:

View Southeast, area of CS-1 through CS-12.



Photograph No. 6

Facility: MEDWICK 32 FEDERAL COM 4H-12H BATTERY

County: Eddy County, New Mexico

Description:

View Northeast, area of CS-1 through CS-7.



PHOTOGRAPHIC LOG

Cimarex Energy Co.

Photograph No. 7

Facility: MEDWICK 32 FEDERAL COM 4H-12H BATTERY

County: Eddy County, New Mexico

Description:

View Northwest, area of CS-1 through CS-12.



Photograph No. 8

Facility: MEDWICK 32 FEDERAL COM 4H-12H BATTERY

County: Eddy County, New Mexico

Description:

View Southwest, area of CS-1 through CS-12.



Photograph No. 9

Facility: MEDWICK 32 FEDERAL COM 4H-12H BATTERY

County: Eddy County, New Mexico

Description:

View West, area of CS-9 through CS-12.



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	nAPP2326832122
District RP	
Facility ID	fAPP2202783477
Application ID	

Release Notification

Responsible Party

Responsible Party: Cimarex Energy Co.	OGRID: 215099
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: laci.luig@coterra.com	Incident # (assigned by OCD) nAPP2326832122
Contact mailing address: 6001 Deauville Blvd., Suite 300N Midland, TX 79706	

Location of Release Source

Latitude 32.00070 _____ Longitude -104.20671 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Medwick 32 Federal Com 4H-12H	Site Type: Battery
Date Release Discovered: 9/24/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
H	32	26S	27E	Eddy

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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 1	Volume Recovered (bbls) 1
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 14	Volume Recovered (bbls) 13
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" 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: Equipment Failure
A straight body Kimray water dump washed out the bottom of the body and cut a hole in the lined containment under the dump. A total of 13.84 barrels fluid were released inside the lined containment with 1.51 barrels produced water releasing outside the containment. A vac truck was able to recover 13.84 from inside the containment. An environmental company has been contacted and remediation will be scheduled in the coming weeks. Released: 1 barrel crude oil + 14.35 barrels produced water Recovered: 13.84 barrels




Initial Response

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

Released to Imaging: 4/19/2024 3:27:41 PM



CIMAREX ENERGY
MEDWICK 32 FEDERAL COM CTB
EDDY, NM

8:48   



[< Spill Calc - Lite](#)

Rectangle or Square Shape Spill

L(Ft)	W(Ft)	D(In)
113	33	.25


Tank Size (Ft) Tank Count




Tank OD	Tank Count
---------	------------

If you need to account for tank displacement, input tank OD in the correct textbox above, along with how many tanks. If you are just calculating a rectangle or square shape just leave Tank OD and Tank Count empty.

Spill Before Disp (Bbls):	13.84
Tank Displacement Vol (Bbls):	0.00
Total Spill Bbls:	13.84
Total Spill Gals:	581.10

 KellyJG.net

8:49   



[< Spill Calc - Lite](#)

Rectangle or Square Shape Spill

L(Ft)	W(Ft)	D(In)
34	4	.75


Tank Size (Ft) Tank Count

Tank OD	Tank Count
---------	------------

If you need to account for tank displacement, input tank OD in the correct textbox above, along with how many tanks. If you are just calculating a rectangle or square shape just leave Tank OD and Tank Count empty.

Spill Before Disp (Bbls):	1.51
Tank Displacement Vol (Bbls):	0.00
Total Spill Bbls:	1.51
Total Spill Gals:	63.58

 KellyJG.net

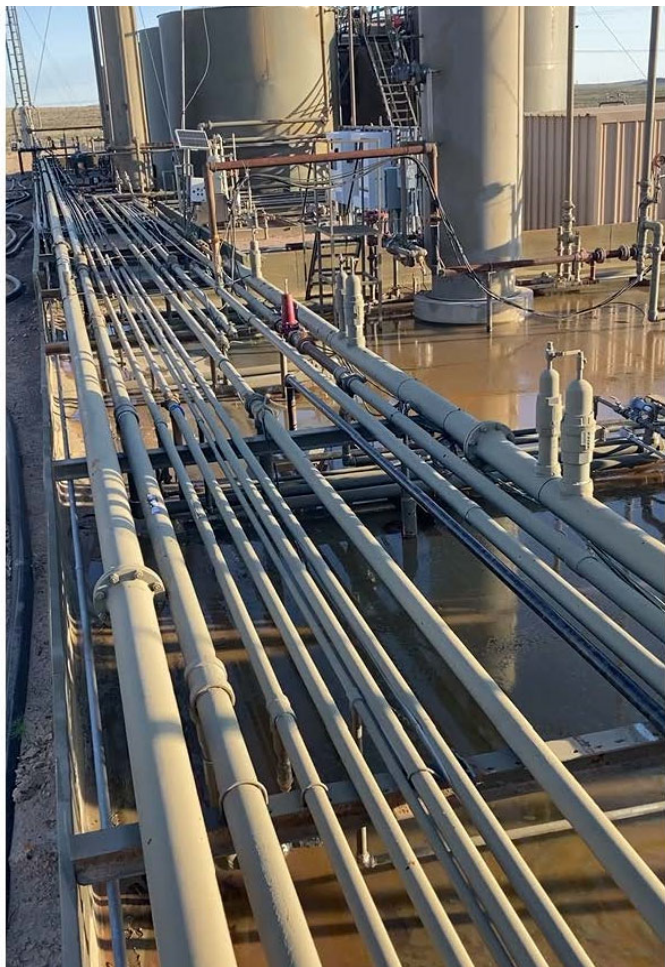


CIMAREX ENERGY
MEDWICK 32 FEDERAL COM CTB
EDDY, NM



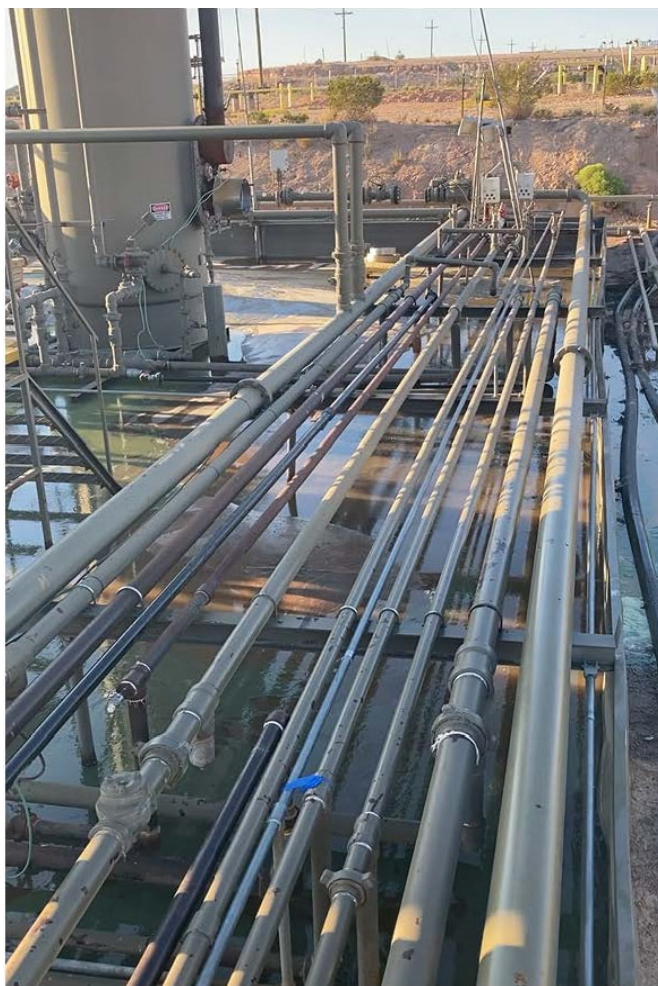


CIMAREX ENERGY
MEDWICK 32 FEDERAL COM CTB
EDDY, NM





CIMAREX ENERGY
MEDWICK 32 FEDERAL COM CTB
EDDY, NM



Ashton Thielke

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Wednesday, January 31, 2024 10:49 AM
To: Ashton Thielke; Laci Luig
Cc: Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD
Subject: [EXTERNAL] nAPP2326832122 - Medwick 32 Federal Com 4H-12H CTB - Extension Request

Ashton/Laci,

An extension to **April 30th, 2024** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the Remediation Closure Report.

Regards,

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Ashton Thielke <Ashton.Thielke@coterra.com>
Sent: Wednesday, January 31, 2024 9:27 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Laci Luig <Laci.Luig@coterra.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: nAPP2326832122 - Medwick 32 Federal Com 4H-12H CTB - Extension Request

Yes sir, we are requesting an additional 30-45 day extension.

During a pre-job site walk to review where temporary equipment would be installed it was pointed out that we would be in violation with OSHA safety standards.

Everything was put on pause and a new plan was developed to add on to the back side of the battery we have to the west side of the spill area.

The extension is so that we can safely remove all equipment, buried lines, and tanks and then work to digging up all contamination.

Due to the location of the spill, how it punctured the liner, and the hard lithology, we have been unable to delineate the spill area with hand tools, but once all equipment has been removed, we will begin field testing and remediating at risk.

This will ensure that we can remove all contamination at one time and no deferral requests will have to be made.

Feel free to give Laci or myself a call if you have any additional questions and we can walk through the process further in detail.

Thanks,



Ashton Thielke | PBU - Environmental Consultant

T: 432.813.8988 | M: 281.753.5659 | Ashton.Thielke@coterra.com | www.coterra.com

Coterra Energy Inc. | 6001 Deauville Blvd., Suite 300N | Midland, TX 79706

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

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Sent: Wednesday, January 31, 2024 10:10 AM

To: Laci Luig <Laci.Luig@coterra.com>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>;

Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Ashton Thielke <Ashton.Thielke@coterra.com>

Subject: RE: [EXTERNAL] RE: nAPP2326832122 - Medwick 32 Federal Com 4H-12H CTB - Extension Request

Laci,

An extension has already been approved until 3/13/24. Are you requesting an additional 30-45 days past this deadline?

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave. | Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Laci Luig <Laci.Luig@coterra.com>

Sent: Tuesday, January 30, 2024 5:32 PM

To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>;

Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Ashton Thielke <Ashton.Thielke@coterra.com>

Subject: [EXTERNAL] RE: nAPP2326832122 - Medwick 32 Federal Com 4H-12H CTB - Extension Request

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

Good afternoon Rob,

Attached is an email from our Construction Department regarding relocating vessels at the Medwick 32 Federal CTB.

Due to major facility deconstruction/relocation, Cimarex respectfully is requesting an additional 30-45 days extension to allow adequate time to excavate impacted soils once equipment has been removed from the impacted area.

Laci Luig
(432) 208-3035

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Thursday, December 14, 2023 10:05 AM
To: Ashton Thielke <Ashton.Thielke@coterra.com>
Cc: Laci Luig <Laci.Luig@coterra.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: [EXTERNAL] nAPP2326832122 - Medwick 32 Federal Com 4H-12H CTB - Extension Request

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

RE: Incident #**NAPP2326832122**

Ashton,

The maximum extension the OCD can grant is 90 days. Your request for an extension to **March 13th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, December 13, 2023 11:06 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] nAPP2326832122 - Medwick 32 Federal Com 4H-12H CTB - Extension Request

From: Ashton Thielke <Ashton.Thielke@coterra.com>
Sent: Wednesday, December 13, 2023 8:01 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Laci Luig <Laci.Luig@coterra.com>
Subject: [EXTERNAL] nAPP2326832122 - Medwick 32 Federal Com 4H-12H CTB - Extension Request

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

Good morning NMOCD,

Cimarex Energy Co. is requesting an extension on this remediation and closure process. Attached is a sample map and lab data from surface samples that were collected recently. As a result of that sampling event and the obvious contamination underneath the falcon lined containment, a major facility deconstruction is going to take place. After discussions with engineers and managers, all separators, treaters and surface piping will be removed and relocated so that the contaminated area (shaded in blue) can be remediated at risk.

Cimarex is proposing to have all remediation work and a final closure report to the OCD by April 1, 2024.

Let myself or Laci Luig know if you have any questions.

Thanks!



Ashton Thielke | PBU - Environmental Consultant

T: 432.813.8988 | M: 281.753.5659 | Ashton.Thielke@coterra.com | www.coterra.com

Coterra Energy Inc. | 6001 Deauville Blvd., Suite 300N | Midland, TX 79706

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

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District I

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

District II

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

District III

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

District IV

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

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

QUESTIONS

Action 326574

QUESTIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 326574
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2326832122
Incident Name	NAPP2326832122 MEDWICK 32 FEDERAL COM 4H-12H BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2202783477] MEDWICK 32 FED COM 4H,7H,8H,11H &12H

Location of Release Source	
Site Name	MEDWICK 32 FEDERAL COM 4H-12H BATTERY
Date Release Discovered	09/24/2023
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	2,500
What is the estimated number of samples that will be gathered	14
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/28/2024
Time sampling will commence	11:00 AM
Please provide any information necessary for observers to contact samplers	Gilbert Priego - 432-813-8988
Please provide any information necessary for navigation to sampling site	32.00071,-104.20671

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 326574

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 326574
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
lluig	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/25/2024

APPENDIX D

CARMONA RESOURCES

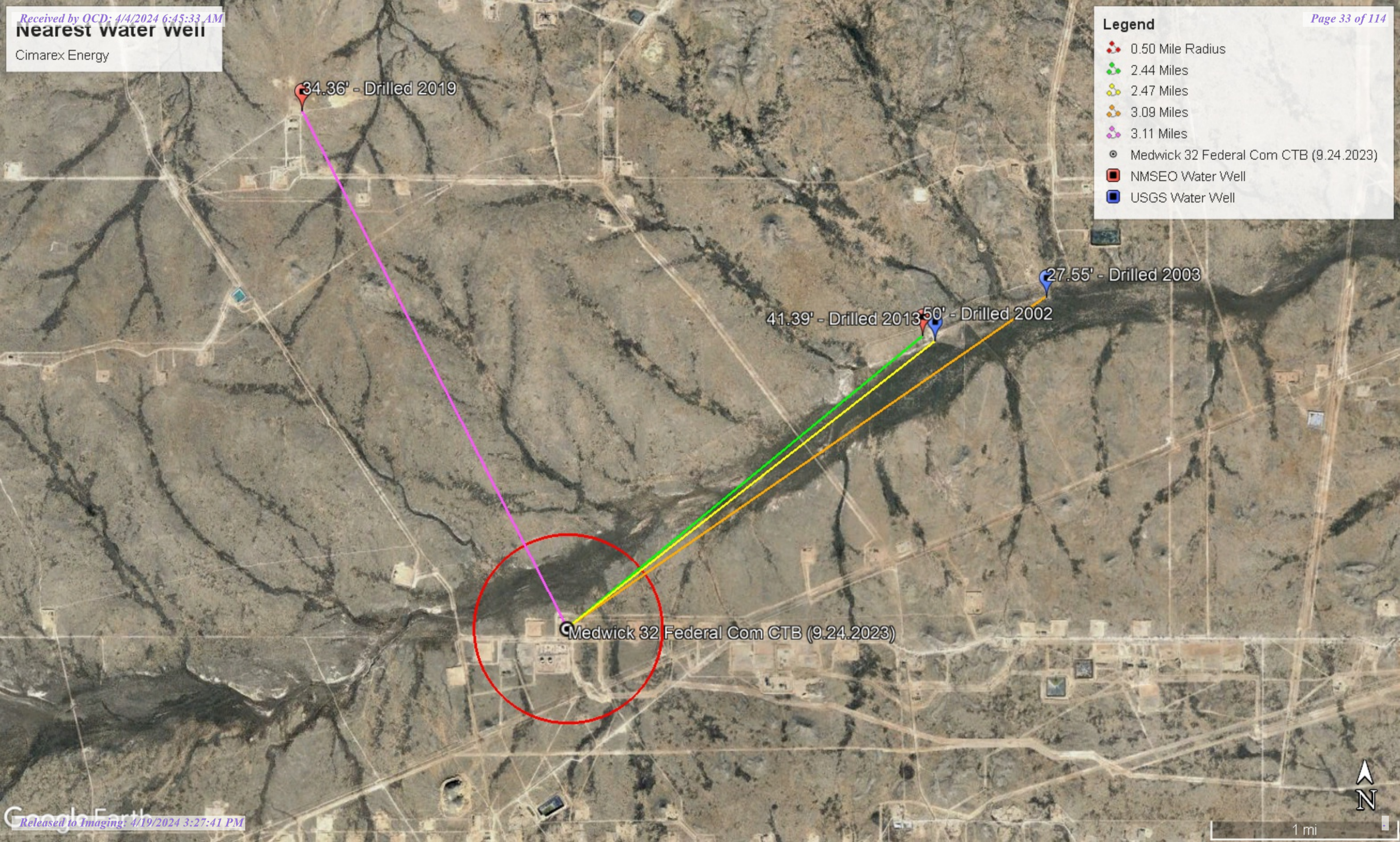


Nearest water well

Cimarex Energy

Legend

- 0.50 Mile Radius
- 2.44 Miles
- 2.47 Miles
- 3.09 Miles
- 3.11 Miles
- Medwick 32 Federal Com CTB (9.24.2023)
- NMSEO Water Well
- USGS Water Well



High Karst

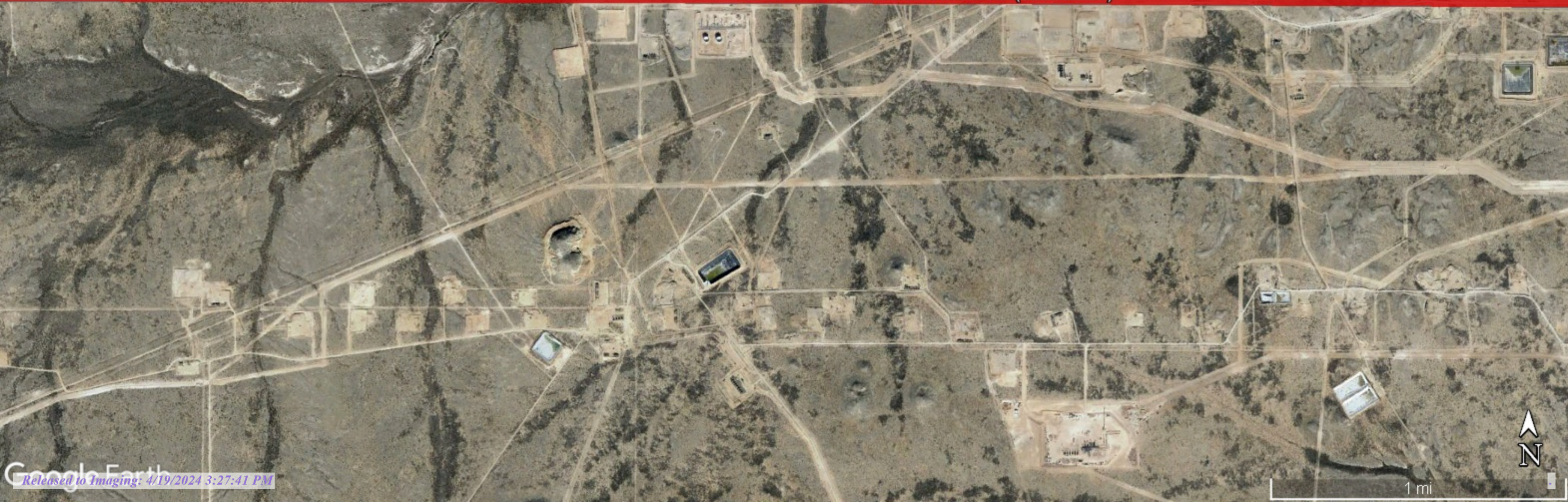
Cimarex Energy

Legend

High

Medwick 32 Federal Com CTB (9.24.2023)

Medwick 32 Federal Com CTB (9.24.2023)





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 02930	C		ED	2	3	4	22	26S	27E	577938	3543284*	3907	100	50	50

Average Depth to Water: **50 feet**

Minimum Depth: **50 feet**

Maximum Depth: **50 feet**

Record Count: 1

UTM NAD83 Radius Search (in meters):

Easting (X): 574930.97

Northing (Y): 3540788.18

Radius: 4000

*UTM location was derived from PLSS - see Help

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

9/28/23 7:43 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02930	2	3	4	22	26S	27E	577938	3543284*
<hr/>									
Driller License: 1227		Driller Company:		B & H DRILLING					
Driller Name:									
Drill Start Date: 09/06/2002		Drill Finish Date:		09/12/2002		Plug Date:			
Log File Date: 12/19/2002		PCW Rev Date:				Source: Shallow			
Pump Type:		Pipe Discharge Size:				Estimated Yield: 120 GPM			
Casing Size: 6.00		Depth Well:		100 feet		Depth Water: 50 feet			
<hr/>									
Water Bearing Stratifications:		Top	Bottom	Description					
		50	62	Sandstone/Gravel/Conglomerate					
		80	100	Limestone/Dolomite/Chalk					
<hr/>									
Casing Perforations:		Top	Bottom						
		50	100						

*UTM location was derived from PLSS - see Help

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

9/28/23 7:43 AM

POINT OF DIVERSION SUMMARY



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National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

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- [Full News](#)

Groundwater levels for New Mexico

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320124104110601

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

USGS 320124104110601 26S.27E.22.43242

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

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1987-10-13			D 62610		3082.58	NGVD29	P	S			A
1987-10-13			D 62611		3084.21	NAVD88	P	S			A
1987-10-13			D 72019	12.42			P	S			A
1992-11-04			D 62610		3076.22	NGVD29	1	S	USGS	S	A
1992-11-04			D 62611		3077.85	NAVD88	1	S	USGS	S	A
1992-11-04			D 72019	18.78			1	S	USGS	S	A
1992-11-18			D 62610		3076.52	NGVD29	1	S	USGS	S	A
1992-11-18			D 62611		3078.15	NAVD88	1	S	USGS	S	A
1992-11-18			D 72019	18.48			1	S	USGS	S	A
1998-01-13			D 62610		3070.48	NGVD29	1	S	USGS	S	A
1998-01-13			D 62611		3072.11	NAVD88	1	S	USGS	S	A
1998-01-13			D 72019	24.52			1	S	USGS	S	A
2003-01-29			D 62610		3064.65	NGVD29	1	S	USGS	S	A
2003-01-29			D 62611		3066.28	NAVD88	1	S	USGS	S	A
2003-01-29			D 72019	30.35			1	S	USGS	S	A
2013-01-09	21:20 UTC		m 62610		3053.61	NGVD29	P	S	USGS	S	A
2013-01-09	21:20 UTC		m 62611		3055.24	NAVD88	P	S	USGS	S	A
2013-01-09	21:20 UTC		m 72019	41.39			P	S	USGS	S	A

Explanation

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

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



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0.28 0.24 nadww01



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National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

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- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320134104094801

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

USGS 320134104094801 26S.27E.23.321431

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

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1992-11-04			D 62610		3045.35	NGVD29	1	S			A
1992-11-04			D 62611		3046.97	NAVD88	1	S			A
1992-11-04			D 72019	19.65			1	S			A
1998-01-13			D 62610		3039.38	NGVD29	1	S			A
1998-01-13			D 62611		3041.00	NAVD88	1	S			A
1998-01-13			D 72019	25.62			1	S			A
2003-01-29			D 62610		3037.45	NGVD29	1	S	USGS	S	A
2003-01-29			D 62611		3039.07	NAVD88	1	S	USGS	S	A
2003-01-29			D 72019	27.55			1	S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.

Section	Code	Description
Water-level approval status	A	Approved for publication -- Processing and review completed.

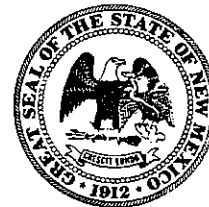
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Title: Groundwater for New Mexico: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>
Page Contact Information: [New Mexico Water Data Maintainer](#)
Page Last Modified: 2023-09-28 09:48:53 EDT
0.29 0.24 nadww01





PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4269-POD1 (MW-1)

Well owner: Plains All American Pipeline, L.P.

Phone No.: _____

Mailing address: 505 N. Big Spring, Suite 600


City: Midland State: Texas Zip code: 79701

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Talon LPE
- 2) New Mexico Well Driller License No.: 1575 Expiration Date: July 31, 2020
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Cesar Munoz
- 4) Date well plugging began: 02/06/19 Date well plugging concluded: 02/06/19
- 5) GPS Well Location: Latitude: 32 deg, 2 min, 22.40 sec
Longitude: -104 deg, 13 min, 55.86 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 105 ft below ground level (bgl),
by the following manner: _____
- 7) Static water level measured at initiation of plugging: 34.36 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 01/22/19
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

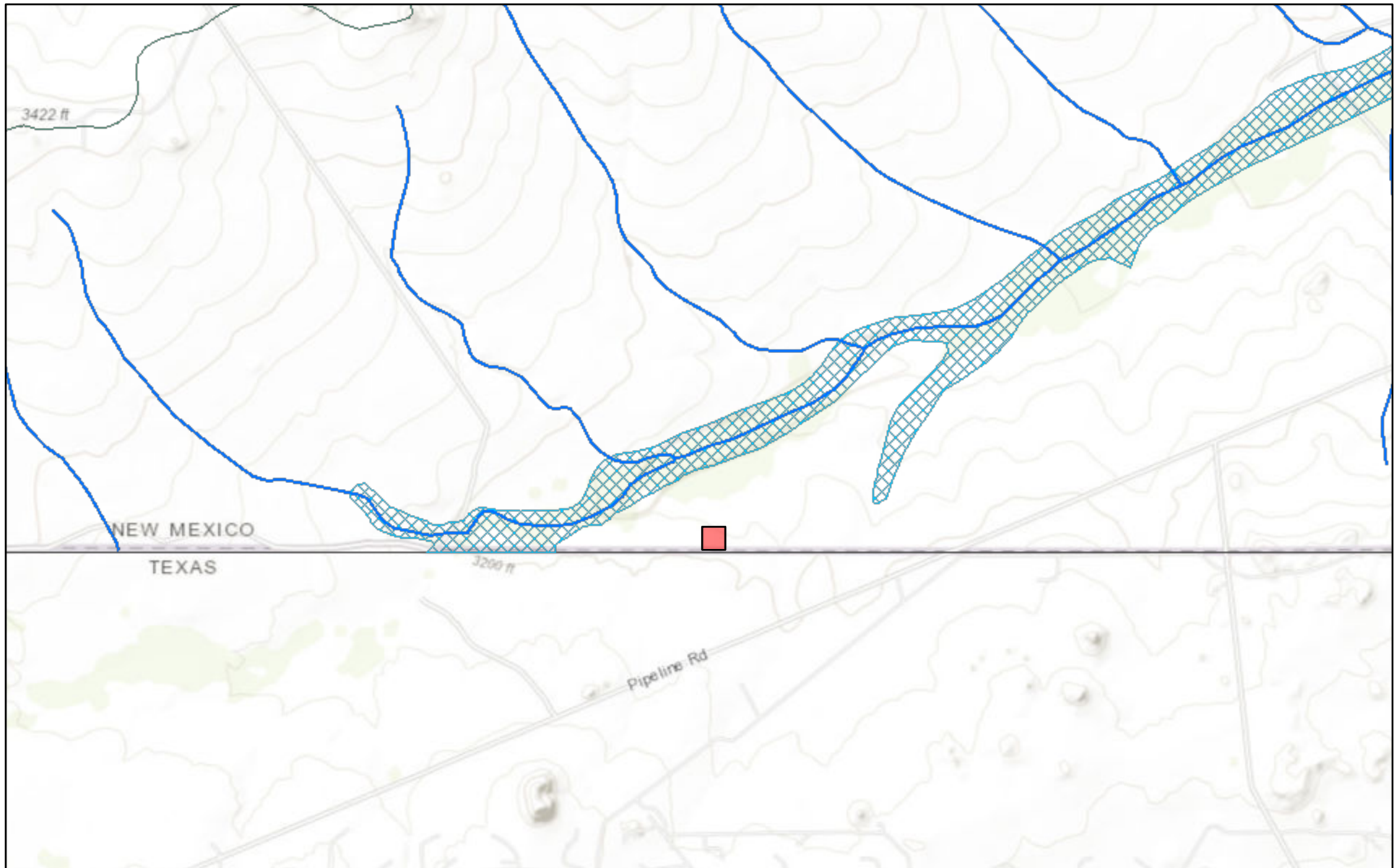
- For each interval plugged, describe within the following columns:**

III. SIGNATURE:

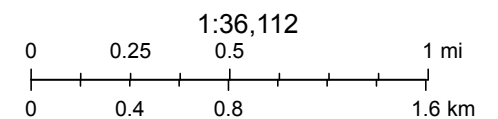

Signature of Well Driller

Date _____

New Mexico NFHL Data



September 28, 2023



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

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

This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

APPENDIX E

CARMONA RESOURCES





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

October 05, 2023

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: MEDWICK 32 FEDERAL COM CTB

Enclosed are the results of analyses for samples received by the laboratory on 10/03/23 14:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/03/2023	Sampling Date:	10/03/2023
Reported:	10/05/2023	Sampling Type:	Soil
Project Name:	MEDWICK 32 FEDERAL COM CTB	Sampling Condition:	Cool & Intact
Project Number:	2152 (09.24.2023)	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - EDDY CO NM		

Sample ID: S - 1 (0-1') (H235379-01)

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	10/04/2023	ND	2.03	102	2.00	4.34	
Toluene*	<0.050	0.050	10/04/2023	ND	2.02	101	2.00	7.44	
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.13	106	2.00	9.21	
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.29	105	6.00	11.2	
Total BTX	<0.300	0.300	10/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	10/05/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2023	ND	203	102	200	2.10	
DRO >C10-C28*	<10.0	10.0	10/04/2023	ND	198	99.1	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	10/04/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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.

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: 10/03/2023
 Reported: 10/05/2023
 Project Name: MEDWICK 32 FEDERAL COM CTB
 Project Number: 2152 (09.24.2023)
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 10/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 2 (0-1') (H235379-02)

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	10/04/2023	ND	2.03	102	2.00	4.34		
Toluene*	<0.050	0.050	10/04/2023	ND	2.02	101	2.00	7.44		
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.13	106	2.00	9.21		
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.29	105	6.00	11.2		
Total BTEX	<0.300	0.300	10/04/2023	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	8800	16.0	10/05/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2023	ND	203	102	200	2.10	
DRO >C10-C28*	<10.0	10.0	10/04/2023	ND	198	99.1	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	10/04/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 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: 10/03/2023
 Reported: 10/05/2023
 Project Name: MEDWICK 32 FEDERAL COM CTB
 Project Number: 2152 (09.24.2023)
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 10/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 3 (0-1') (H235379-03)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2023	ND	2.03	102	2.00	4.34	
Toluene*	0.899	0.050	10/04/2023	ND	2.02	101	2.00	7.44	
Ethylbenzene*	0.858	0.050	10/04/2023	ND	2.13	106	2.00	9.21	
Total Xylenes*	8.00	0.150	10/04/2023	ND	6.29	105	6.00	11.2	
Total BTEX	9.76	0.300	10/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 195 % 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	1570	16.0	10/05/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	244	10.0	10/04/2023	ND	203	102	200	2.10	
DRO >C10-C28*	748	10.0	10/04/2023	ND	198	99.1	200	1.99	
EXT DRO >C28-C36	117	10.0	10/04/2023	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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: 10/03/2023
 Reported: 10/05/2023
 Project Name: MEDWICK 32 FEDERAL COM CTB
 Project Number: 2152 (09.24.2023)
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 10/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 4 (0-1') (H235379-04)

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	10/04/2023	ND	2.03	102	2.00	4.34		
Toluene*	<0.050	0.050	10/04/2023	ND	2.02	101	2.00	7.44		
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.13	106	2.00	9.21		
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.29	105	6.00	11.2		
Total BTEX	<0.300	0.300	10/04/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5520	16.0	10/05/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2023	ND	203	102	200	2.10	
DRO >C10-C28*	<10.0	10.0	10/04/2023	ND	198	99.1	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	10/04/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 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: 10/03/2023
 Reported: 10/05/2023
 Project Name: MEDWICK 32 FEDERAL COM CTB
 Project Number: 2152 (09.24.2023)
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 10/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 5 (0-1') (H235379-05)

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	10/04/2023	ND	2.03	102	2.00	4.34		
Toluene*	<0.050	0.050	10/04/2023	ND	2.02	101	2.00	7.44		
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.13	106	2.00	9.21		
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.29	105	6.00	11.2		
Total BTEX	<0.300	0.300	10/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	10/05/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2023	ND	203	102	200	2.10	
DRO >C10-C28*	<10.0	10.0	10/04/2023	ND	198	99.1	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	10/04/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 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: 10/03/2023
 Reported: 10/05/2023
 Project Name: MEDWICK 32 FEDERAL COM CTB
 Project Number: 2152 (09.24.2023)
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 10/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 6 (0-1') (H235379-06)

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	10/04/2023	ND	2.03	102	2.00	4.34	
Toluene*	<0.050	0.050	10/04/2023	ND	2.02	101	2.00	7.44	
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.13	106	2.00	9.21	
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.29	105	6.00	11.2	
Total BTEX	<0.300	0.300	10/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	10/05/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2023	ND	203	102	200	2.10	
DRO >C10-C28*	<10.0	10.0	10/04/2023	ND	198	99.1	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	10/04/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 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: 10/03/2023
 Reported: 10/05/2023
 Project Name: MEDWICK 32 FEDERAL COM CTB
 Project Number: 2152 (09.24.2023)
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 10/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 7 (0-1') (H235379-07)

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	10/04/2023	ND	2.03	102	2.00	4.34		
Toluene*	<0.050	0.050	10/04/2023	ND	2.02	101	2.00	7.44		
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.13	106	2.00	9.21		
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.29	105	6.00	11.2		
Total BTEX	<0.300	0.300	10/04/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/05/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2023	ND	203	102	200	2.10	
DRO >C10-C28*	<10.0	10.0	10/04/2023	ND	198	99.1	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	10/04/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 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: 10/03/2023
 Reported: 10/05/2023
 Project Name: MEDWICK 32 FEDERAL COM CTB
 Project Number: 2152 (09.24.2023)
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 10/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 8 (0-1') (H235379-08)

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	10/04/2023	ND	2.03	102	2.00	4.34	
Toluene*	<0.050	0.050	10/04/2023	ND	2.02	101	2.00	7.44	
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.13	106	2.00	9.21	
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.29	105	6.00	11.2	
Total BTEX	<0.300	0.300	10/04/2023	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	48.0	16.0	10/05/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2023	ND	203	102	200	2.10	
DRO >C10-C28*	<10.0	10.0	10/04/2023	ND	198	99.1	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	10/04/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 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: 10/03/2023
 Reported: 10/05/2023
 Project Name: MEDWICK 32 FEDERAL COM CTB
 Project Number: 2152 (09.24.2023)
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 10/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 9 (0-1') (H235379-09)

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	10/04/2023	ND	2.03	102	2.00	4.34		
Toluene*	<0.050	0.050	10/04/2023	ND	2.02	101	2.00	7.44		
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.13	106	2.00	9.21		
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.29	105	6.00	11.2		
Total BTEX	<0.300	0.300	10/04/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/05/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2023	ND	203	102	200	2.10	
DRO >C10-C28*	<10.0	10.0	10/04/2023	ND	198	99.1	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	10/04/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 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: 10/03/2023
 Reported: 10/05/2023
 Project Name: MEDWICK 32 FEDERAL COM CTB
 Project Number: 2152 (09.24.2023)
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 10/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 10 (0-1') (H235379-10)

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	10/05/2023	ND	2.03	102	2.00	4.34		
Toluene*	<0.050	0.050	10/05/2023	ND	2.02	101	2.00	7.44		
Ethylbenzene*	<0.050	0.050	10/05/2023	ND	2.13	106	2.00	9.21		
Total Xylenes*	<0.150	0.150	10/05/2023	ND	6.29	105	6.00	11.2		
Total BTEx	<0.300	0.300	10/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	160	16.0	10/05/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2023	ND	203	102	200	2.10	
DRO >C10-C28*	136	10.0	10/04/2023	ND	198	99.1	200	1.99	
EXT DRO >C28-C36	12.1	10.0	10/04/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 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: 10/03/2023
 Reported: 10/05/2023
 Project Name: MEDWICK 32 FEDERAL COM CTB
 Project Number: 2152 (09.24.2023)
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 10/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 11 (0-1') (H235379-11)

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	10/04/2023	ND	2.03	102	2.00	4.34		
Toluene*	<0.050	0.050	10/04/2023	ND	2.02	101	2.00	7.44		
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.13	106	2.00	9.21		
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.29	105	6.00	11.2		
Total BTEX	<0.300	0.300	10/04/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/05/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2023	ND	203	102	200	2.10	
DRO >C10-C28*	<10.0	10.0	10/04/2023	ND	198	99.1	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	10/04/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 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: 10/03/2023
 Reported: 10/05/2023
 Project Name: MEDWICK 32 FEDERAL COM CTB
 Project Number: 2152 (09.24.2023)
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 10/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 12 (0-1') (H235379-12)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2023	ND	2.03	102	2.00	4.34	
Toluene*	0.588	0.050	10/04/2023	ND	2.02	101	2.00	7.44	
Ethylbenzene*	0.378	0.050	10/04/2023	ND	2.13	106	2.00	9.21	
Total Xylenes*	3.41	0.150	10/04/2023	ND	6.29	105	6.00	11.2	
Total BTEX	4.38	0.300	10/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 140 % 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	1800	16.0	10/05/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	116	10.0	10/04/2023	ND	203	102	200	2.10	
DRO >C10-C28*	355	10.0	10/04/2023	ND	198	99.1	200	1.99	
EXT DRO >C28-C36	44.0	10.0	10/04/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 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: 10/03/2023
 Reported: 10/05/2023
 Project Name: MEDWICK 32 FEDERAL COM CTB
 Project Number: 2152 (09.24.2023)
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 10/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 12 (1'-1.5') (H235379-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.061	0.050	10/04/2023	ND	2.03	102	2.00	4.34	
Toluene*	0.185	0.050	10/04/2023	ND	2.02	101	2.00	7.44	
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.13	106	2.00	9.21	
Total Xylenes*	0.253	0.150	10/04/2023	ND	6.29	105	6.00	11.2	
Total BTEX	0.499	0.300	10/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	3040	16.0	10/05/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2023	ND	203	102	200	2.10	
DRO >C10-C28*	12.3	10.0	10/04/2023	ND	198	99.1	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	10/04/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 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: 10/03/2023
 Reported: 10/05/2023
 Project Name: MEDWICK 32 FEDERAL COM CTB
 Project Number: 2152 (09.24.2023)
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 10/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 13 (0-1') (H235379-14)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.83	1.00	10/04/2023	ND	2.03	102	2.00	4.34	
Toluene*	13.4	1.00	10/04/2023	ND	2.02	101	2.00	7.44	
Ethylbenzene*	4.59	1.00	10/04/2023	ND	2.13	106	2.00	9.21	
Total Xylenes*	34.3	3.00	10/04/2023	ND	6.29	105	6.00	11.2	
Total BTEX	54.1	6.00	10/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	5360	16.0	10/05/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1130	10.0	10/04/2023	ND	203	102	200	2.10	
DRO >C10-C28*	1960	10.0	10/04/2023	ND	198	99.1	200	1.99	
EXT DRO >C28-C36	260	10.0	10/04/2023	ND					

Surrogate: 1-Chlorooctane 167 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 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: 10/03/2023
 Reported: 10/05/2023
 Project Name: MEDWICK 32 FEDERAL COM CTB
 Project Number: 2152 (09.24.2023)
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 10/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 13 (1'-1.5') (H235379-15)

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	10/04/2023	ND	2.03	102	2.00	4.34	
Toluene*	0.234	0.050	10/04/2023	ND	2.02	101	2.00	7.44	
Ethylbenzene*	0.106	0.050	10/04/2023	ND	2.13	106	2.00	9.21	
Total Xylenes*	0.969	0.150	10/04/2023	ND	6.29	105	6.00	11.2	
Total BTEX	1.31	0.300	10/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 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	12200	16.0	10/05/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	26.7	10.0	10/04/2023	ND	203	102	200	2.10	
DRO >C10-C28*	150	10.0	10/04/2023	ND	198	99.1	200	1.99	
EXT DRO >C28-C36	34.4	10.0	10/04/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 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: 10/03/2023
 Reported: 10/05/2023
 Project Name: MEDWICK 32 FEDERAL COM CTB
 Project Number: 2152 (09.24.2023)
 Project Location: CIMAREX - EDDY CO NM

Sampling Date: 10/03/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 14 (0-1') (H235379-16)

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	10/04/2023	ND	2.03	102	2.00	4.34		
Toluene*	<0.050	0.050	10/04/2023	ND	2.02	101	2.00	7.44		
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.13	106	2.00	9.21		
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.29	105	6.00	11.2		
Total BTX	<0.300	0.300	10/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	80.0	16.0	10/05/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2023	ND	203	102	200	2.10	
DRO >C10-C28*	<10.0	10.0	10/04/2023	ND	198	99.1	200	1.99	
EXT DRO >C28-C36	<10.0	10.0	10/04/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody


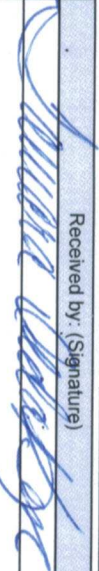
Work Order No: 4235379Page 1 of 2

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

Work Order Comments			
Program: UST/PST	<input type="checkbox"/> PRP	<input type="checkbox"/> brownfields	<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	Other:	

Project Name:	Medwick 32 Federal Com CTB (09.24.2023)	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST												Preservative Codes			
Project Number:	2152																	None: NO. DI Water: H ₂ O			
Project Location:	Eddy County, New Mexico	Due Date:	48															Cool: Cool MeOH: Me			
Sampler's Name:	AT/GPJ																	HCL: HC HNO ₃ : HN			
PO #:																		H ₂ SO ₄ : H ₂ NaOH: Na			
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H ₃ PO ₄ : HP			
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:																NaHSO ₄ : NABIS			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:																Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:																Zn Acetate+NaOH: Zn			
Total Containers:		Corrected Temperature:																NaOH+Ascorbic Acid: SAPC			
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments	
S-1 (0-1')	10/3/2023			X		G	1	X	X	X											
S-2 (0-1')	10/3/2023			X		G	1	X	X	X											
S-3 (0-1')	10/3/2023			X		G	1	X	X	X											
S-4 (0-1')	10/3/2023			X		G	1	X	X	X											
S-5 (0-1')	10/3/2023			X		G	1	X	X	X											
S-6 (0-1')	10/3/2023			X		G	1	X	X	X											
S-7 (0-1')	10/3/2023			X		G	1	X	X	X											
S-8 (0-1')	10/3/2023			X		G	1	X	X	X											
S-9 (0-1')	10/3/2023			X		G	1	X	X	X											
S-10 (0-1')	10/3/2023			X		G	1	X	X	X											

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	10-3-23 1425		

Chain of Custody

Work Order No:

4235379

Page 2 of 2

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Lugo
Company Name:	Carmona Resources	Company Name:	Cinmarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marlenfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.lugo@coteria.com ashton.thielke@coteria.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:	Medwick 32 Federal Com CTB (09.24.2023)	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	2152	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush														None: NO	DI Water: H ₂ O	
Project Location:	Eddy County, New Mexico	Due Date:	48														Cool: Cool	MeOH: Me	
Sampler's Name:	AT/GPJ																HCL: HC	HNO ₃ : HN	
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters												Hold	
Received In tact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	140			BTX 8021B												NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	1.52			TPH 8015M (GRO + DRO + MRO)												Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	1.52			Chloride 4500												Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature:																NaOH+Ascorbic Acid: SAPC	
Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont												Sample Comments	
S-11 (0-1')	10/3/2023		X		G	1	X	X	X										
S-12 (0-1')	10/3/2023		X		G	1	X	X	X										
S-12 (1'-1.5')	10/3/2023		X		G	1	X	X	X										
S-13 (0-1')	10/3/2023		X		G	1	X	X	X										
S-13 (1'-1.5')	10/3/2023		X		G	1	X	X	X										
S-14 (0-1')	10/3/2023		X		G	1	X	X	X									Lab Hold	
S-15 (0-1')	10/3/2023		X		G	1	X	X	X									Lab Hold	
S-16 (0-1')	10/3/2023		X		G	1	X	X	X										

Comments:

Relinquished by: (Signature)		Date/Time	Received by: (Signature)	Date/Time
		10-3-23 1425		

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Ashton Thielke
Carmona Resources
310 West W Wall Ste. 415
Midland, TX 79701

Project: Medwick 32 Federal Com CTB (09.24.2023)

Project Number: 2152

Location: Eddy County, New Mexico

Lab Order Number: 4D01005



Current Certification

Report Date: 04/02/24

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS-1 (3.0')	4D01005-01	Soil	03/28/24 00:00	04-01-2024 08:40
CS-2 (3.0')	4D01005-02	Soil	03/28/24 00:00	04-01-2024 08:40
CS-3 (3.0')	4D01005-03	Soil	03/28/24 00:00	04-01-2024 08:40
CS-4 (3.0')	4D01005-04	Soil	03/28/24 00:00	04-01-2024 08:40
CS-5 (3.0')	4D01005-05	Soil	03/28/24 00:00	04-01-2024 08:40
CS-6 (3.0')	4D01005-06	Soil	03/28/24 00:00	04-01-2024 08:40
CS-7 (3.0')	4D01005-07	Soil	03/28/24 00:00	04-01-2024 08:40
CS-8 (3.0')	4D01005-08	Soil	03/28/24 00:00	04-01-2024 08:40
CS-9 (3.0')	4D01005-09	Soil	03/28/24 00:00	04-01-2024 08:40
CS-10 (4.0')	4D01005-10	Soil	03/28/24 00:00	04-01-2024 08:40
CS-11 (4.0')	4D01005-11	Soil	03/28/24 00:00	04-01-2024 08:40
CS-12 (4.0')	4D01005-12	Soil	03/28/24 00:00	04-01-2024 08:40
CS-13 (4.0')	4D01005-13	Soil	03/28/24 00:00	04-01-2024 08:40
SW-1 (3.0')	4D01005-14	Soil	03/28/24 00:00	04-01-2024 08:40
SW-2 (3.0')	4D01005-15	Soil	03/28/24 00:00	04-01-2024 08:40
SW-3 (3.0')	4D01005-16	Soil	03/28/24 00:00	04-01-2024 08:40
SW-4 (3.0')	4D01005-17	Soil	03/28/24 00:00	04-01-2024 08:40
SW-5 (3.0')	4D01005-18	Soil	03/28/24 00:00	04-01-2024 08:40
SW-6 (3.0')	4D01005-19	Soil	03/28/24 00:00	04-01-2024 08:40
SW-7 (4.0')	4D01005-20	Soil	03/28/24 00:00	04-01-2024 08:40
SW-8 (1.0')	4D01005-21	Soil	03/28/24 00:00	04-01-2024 08:40
SW-9 (1.0')	4D01005-22	Soil	03/28/24 00:00	04-01-2024 08:40
SW-10 (4.0')	4D01005-23	Soil	03/28/24 00:00	04-01-2024 08:40

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

CS-1 (3.0')
4D01005-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 14:05	EPA 8021B	
Toluene	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 14:05	EPA 8021B	
Ethylbenzene	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 14:05	EPA 8021B	
Xylene (p/m)	ND	0.00241	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 14:05	EPA 8021B	
Xylene (o)	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 14:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	126 %		80-120		P4D0112	04/01/24 10:35	04/01/24 14:05	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	81.3 %		80-120		P4D0112	04/01/24 10:35	04/01/24 14:05	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	30.1	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 16:05	EPA 8015M	
Diesel Range Organics	ND	30.1	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 16:05	EPA 8015M	
Mineral Oil Range Organics	ND	30.1	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 16:05	EPA 8015M	
Surrogate: 1-Chlorooctane	81.7 %		70-130		P4D0118	04/01/24 07:55	04/01/24 16:05	EPA 8015M	
Surrogate: o-Terphenyl	92.4 %		70-130		P4D0118	04/01/24 07:55	04/01/24 16:05	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	74.3	1.20	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	17.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

CS-2 (3.0')
4D01005-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 14:28	EPA 8021B	
Toluene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 14:28	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 14:28	EPA 8021B	
Xylene (p/m)	ND	0.00244	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 14:28	EPA 8021B	
Xylene (o)	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 14:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	81.3 %		80-120		P4D0112	04/01/24 10:35	04/01/24 14:28	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	123 %		80-120		P4D0112	04/01/24 10:35	04/01/24 14:28	EPA 8021B	S-GC

Organics by GC									
Gasoline Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 16:28	EPA 8015M	
Diesel Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 16:28	EPA 8015M	
Mineral Oil Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 16:28	EPA 8015M	
Surrogate: 1-Chlorooctane	79.7 %		70-130		P4D0118	04/01/24 07:55	04/01/24 16:28	EPA 8015M	
Surrogate: o-Terphenyl	89.3 %		70-130		P4D0118	04/01/24 07:55	04/01/24 16:28	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	128	1.22	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	18.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

CS-3 (3.0')
4D01005-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 14:51	EPA 8021B	
Toluene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 14:51	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 14:51	EPA 8021B	
Xylene (p/m)	ND	0.00244	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 14:51	EPA 8021B	
Xylene (o)	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 14:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	133 %		80-120		P4D0112	04/01/24 10:35	04/01/24 14:51	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	80.9 %		80-120		P4D0112	04/01/24 10:35	04/01/24 14:51	EPA 8021B	

Organics by GC									
Gasoline Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 16:51	EPA 8015M	
Diesel Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 16:51	EPA 8015M	
Mineral Oil Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 16:51	EPA 8015M	
Surrogate: 1-Chlorooctane	81.3 %		70-130		P4D0118	04/01/24 07:55	04/01/24 16:51	EPA 8015M	
Surrogate: o-Terphenyl	90.1 %		70-130		P4D0118	04/01/24 07:55	04/01/24 16:51	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.22	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	18.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

CS-4 (3.0')
4D01005-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 15:13	EPA 8021B	
Toluene	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 15:13	EPA 8021B	
Ethylbenzene	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 15:13	EPA 8021B	
Xylene (p/m)	ND	0.00241	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 15:13	EPA 8021B	
Xylene (o)	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 15:13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	124 %		80-120		P4D0112	04/01/24 10:35	04/01/24 15:13	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	81.0 %		80-120		P4D0112	04/01/24 10:35	04/01/24 15:13	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	30.1	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 17:14	EPA 8015M	
Diesel Range Organics	ND	30.1	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 17:14	EPA 8015M	
Mineral Oil Range Organics	ND	30.1	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 17:14	EPA 8015M	
Surrogate: 1-Chlorooctane	81.1 %		70-130		P4D0118	04/01/24 07:55	04/01/24 17:14	EPA 8015M	
Surrogate: o-Terphenyl	90.1 %		70-130		P4D0118	04/01/24 07:55	04/01/24 17:14	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	83.7	1.20	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	17.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

CS-5 (3.0')
4D01005-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00123	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 15:36	EPA 8021B	
Toluene	ND	0.00123	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 15:36	EPA 8021B	
Ethylbenzene	ND	0.00123	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 15:36	EPA 8021B	
Xylene (p/m)	ND	0.00247	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 15:36	EPA 8021B	
Xylene (o)	ND	0.00123	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 15:36	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	117 %		80-120		P4D0112	04/01/24 10:35	04/01/24 15:36	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	83.7 %		80-120		P4D0112	04/01/24 10:35	04/01/24 15:36	EPA 8021B	

Organics by GC									
Gasoline Range Organics	ND	30.9	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 17:37	EPA 8015M	
Diesel Range Organics	ND	30.9	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 17:37	EPA 8015M	
Mineral Oil Range Organics	ND	30.9	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 17:37	EPA 8015M	
Surrogate: 1-Chlorooctane	82.3 %		70-130		P4D0118	04/01/24 07:55	04/01/24 17:37	EPA 8015M	
Surrogate: o-Terphenyl	92.2 %		70-130		P4D0118	04/01/24 07:55	04/01/24 17:37	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.23	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	19.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

CS-6 (3.0')
4D01005-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 15:59	EPA 8021B	
Toluene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 15:59	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 15:59	EPA 8021B	
Xylene (p/m)	ND	0.00244	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 15:59	EPA 8021B	
Xylene (o)	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 15:59	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	119 %		80-120		P4D0112	04/01/24 10:35	04/01/24 15:59	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	81.4 %		80-120		P4D0112	04/01/24 10:35	04/01/24 15:59	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 18:00	EPA 8015M	
Diesel Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 18:00	EPA 8015M	
Mineral Oil Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 18:00	EPA 8015M	
Surrogate: 1-Chlorooctane	82.1 %		70-130		P4D0118	04/01/24 07:55	04/01/24 18:00	EPA 8015M	
Surrogate: o-Terphenyl	91.8 %		70-130		P4D0118	04/01/24 07:55	04/01/24 18:00	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.22	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	18.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

CS-7 (3.0')
4D01005-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 16:22	EPA 8021B	
Toluene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 16:22	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 16:22	EPA 8021B	
Xylene (p/m)	ND	0.00244	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 16:22	EPA 8021B	
Xylene (o)	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 16:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	124 %		80-120		P4D0112	04/01/24 10:35	04/01/24 16:22	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	81.1 %		80-120		P4D0112	04/01/24 10:35	04/01/24 16:22	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 18:23	EPA 8015M	
Diesel Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 18:23	EPA 8015M	
Mineral Oil Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 18:23	EPA 8015M	
Surrogate: 1-Chlorooctane	81.3 %		70-130		P4D0118	04/01/24 07:55	04/01/24 18:23	EPA 8015M	
Surrogate: o-Terphenyl	90.8 %		70-130		P4D0118	04/01/24 07:55	04/01/24 18:23	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	6.83	1.22	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	18.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

CS-8 (3.0')
4D01005-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 16:44	EPA 8021B	
Toluene	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 16:44	EPA 8021B	
Ethylbenzene	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 16:44	EPA 8021B	
Xylene (p/m)	ND	0.00241	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 16:44	EPA 8021B	
Xylene (o)	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 16:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	121 %		80-120		P4D0112	04/01/24 10:35	04/01/24 16:44	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	81.6 %		80-120		P4D0112	04/01/24 10:35	04/01/24 16:44	EPA 8021B	

Organics by GC									
Gasoline Range Organics	ND	30.1	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 18:46	EPA 8015M	
Diesel Range Organics	ND	30.1	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 18:46	EPA 8015M	
Mineral Oil Range Organics	ND	30.1	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 18:46	EPA 8015M	
Surrogate: 1-Chlorooctane	81.6 %		70-130		P4D0118	04/01/24 07:55	04/01/24 18:46	EPA 8015M	
Surrogate: o-Terphenyl	91.4 %		70-130		P4D0118	04/01/24 07:55	04/01/24 18:46	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	16.5	1.20	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	17.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

CS-9 (3.0')
4D01005-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 17:07	EPA 8021B	
Toluene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 17:07	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 17:07	EPA 8021B	
Xylene (p/m)	ND	0.00244	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 17:07	EPA 8021B	
Xylene (o)	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 17:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	144 %		80-120		P4D0112	04/01/24 10:35	04/01/24 17:07	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	81.9 %		80-120		P4D0112	04/01/24 10:35	04/01/24 17:07	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 19:09	EPA 8015M	
Diesel Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 19:09	EPA 8015M	
Mineral Oil Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 19:09	EPA 8015M	
Surrogate: 1-Chlorooctane	80.2 %		70-130		P4D0118	04/01/24 07:55	04/01/24 19:09	EPA 8015M	
Surrogate: o-Terphenyl	90.1 %		70-130		P4D0118	04/01/24 07:55	04/01/24 19:09	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.22	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	18.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

CS-10 (4.0')

4D01005-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 17:29	EPA 8021B	
Toluene	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 17:29	EPA 8021B	
Ethylbenzene	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 17:29	EPA 8021B	
Xylene (p/m)	ND	0.00241	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 17:29	EPA 8021B	
Xylene (o)	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 17:29	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	120 %		80-120		P4D0112	04/01/24 10:35	04/01/24 17:29	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	81.0 %		80-120		P4D0112	04/01/24 10:35	04/01/24 17:29	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	30.1	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 19:33	EPA 8015M	
Diesel Range Organics	ND	30.1	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 19:33	EPA 8015M	
Mineral Oil Range Organics	ND	30.1	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 19:33	EPA 8015M	
Surrogate: 1-Chlorooctane	80.2 %		70-130		P4D0118	04/01/24 07:55	04/01/24 19:33	EPA 8015M	
Surrogate: o-Terphenyl	89.7 %		70-130		P4D0118	04/01/24 07:55	04/01/24 19:33	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.20	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	17.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

CS-11 (4.0')
4D01005-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00119	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 18:37	EPA 8021B	
Toluene	ND	0.00119	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 18:37	EPA 8021B	
Ethylbenzene	ND	0.00119	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 18:37	EPA 8021B	
Xylene (p/m)	ND	0.00238	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 18:37	EPA 8021B	
Xylene (o)	ND	0.00119	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 18:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	126 %		80-120		P4D0112	04/01/24 10:35	04/01/24 18:37	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	82.0 %		80-120		P4D0112	04/01/24 10:35	04/01/24 18:37	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	29.8	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 20:42	EPA 8015M	
Diesel Range Organics	ND	29.8	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 20:42	EPA 8015M	
Mineral Oil Range Organics	ND	29.8	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 20:42	EPA 8015M	
Surrogate: 1-Chlorooctane	80.4 %		70-130		P4D0118	04/01/24 07:55	04/01/24 20:42	EPA 8015M	
Surrogate: o-Terphenyl	89.7 %		70-130		P4D0118	04/01/24 07:55	04/01/24 20:42	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.19	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	16.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

CS-12 (4.0')
4D01005-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 19:00	EPA 8021B	
Toluene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 19:00	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 19:00	EPA 8021B	
Xylene (p/m)	ND	0.00244	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 19:00	EPA 8021B	
Xylene (o)	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 19:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	81.2 %		80-120		P4D0112	04/01/24 10:35	04/01/24 19:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	121 %		80-120		P4D0112	04/01/24 10:35	04/01/24 19:00	EPA 8021B	S-GC

Organics by GC

Gasoline Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 21:06	EPA 8015M	
Diesel Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 21:06	EPA 8015M	
Mineral Oil Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 21:06	EPA 8015M	
Surrogate: 1-Chlorooctane	84.1 %		70-130		P4D0118	04/01/24 07:55	04/01/24 21:06	EPA 8015M	
Surrogate: o-Terphenyl	93.2 %		70-130		P4D0118	04/01/24 07:55	04/01/24 21:06	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.22	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	18.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

CS-13 (4.0')
4D01005-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 19:22	EPA 8021B	
Toluene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 19:22	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 19:22	EPA 8021B	
Xylene (p/m)	ND	0.00244	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 19:22	EPA 8021B	
Xylene (o)	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 19:22	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	81.8 %		80-120		P4D0112	04/01/24 10:35	04/01/24 19:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	135 %		80-120		P4D0112	04/01/24 10:35	04/01/24 19:22	EPA 8021B	S-GC

Organics by GC

Gasoline Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 21:29	EPA 8015M	
Diesel Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 21:29	EPA 8015M	
Mineral Oil Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 21:29	EPA 8015M	
Surrogate: 1-Chlorooctane	78.9 %		70-130		P4D0118	04/01/24 07:55	04/01/24 21:29	EPA 8015M	
Surrogate: o-Terphenyl	88.3 %		70-130		P4D0118	04/01/24 07:55	04/01/24 21:29	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.22	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	18.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

SW-1 (3.0')
4D01005-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 19:44	EPA 8021B	
Toluene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 19:44	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 19:44	EPA 8021B	
Xylene (p/m)	ND	0.00244	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 19:44	EPA 8021B	
Xylene (o)	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 19:44	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	81.6 %		80-120		P4D0112	04/01/24 10:35	04/01/24 19:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	134 %		80-120		P4D0112	04/01/24 10:35	04/01/24 19:44	EPA 8021B	S-GC

Organics by GC

Gasoline Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 21:52	EPA 8015M	
Diesel Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 21:52	EPA 8015M	
Mineral Oil Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 21:52	EPA 8015M	
Surrogate: 1-Chlorooctane	81.6 %		70-130		P4D0118	04/01/24 07:55	04/01/24 21:52	EPA 8015M	
Surrogate: o-Terphenyl	91.1 %		70-130		P4D0118	04/01/24 07:55	04/01/24 21:52	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.22	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	18.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

SW-2 (3.0')
4D01005-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 20:07	EPA 8021B	
Toluene	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 20:07	EPA 8021B	
Ethylbenzene	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 20:07	EPA 8021B	
Xylene (p/m)	ND	0.00241	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 20:07	EPA 8021B	
Xylene (o)	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 20:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	131 %		80-120		P4D0112	04/01/24 10:35	04/01/24 20:07	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	80.6 %		80-120		P4D0112	04/01/24 10:35	04/01/24 20:07	EPA 8021B	

Organics by GC

Gasoline Range Organics	ND	30.1	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 22:16	EPA 8015M	
Diesel Range Organics	ND	30.1	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 22:16	EPA 8015M	
Mineral Oil Range Organics	ND	30.1	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 22:16	EPA 8015M	
Surrogate: 1-Chlorooctane	80.8 %		70-130		P4D0118	04/01/24 07:55	04/01/24 22:16	EPA 8015M	
Surrogate: o-Terphenyl	91.2 %		70-130		P4D0118	04/01/24 07:55	04/01/24 22:16	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.20	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	17.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

SW-3 (3.0')
4D01005-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00125	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 20:29	EPA 8021B	
Toluene	ND	0.00125	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 20:29	EPA 8021B	
Ethylbenzene	ND	0.00125	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 20:29	EPA 8021B	
Xylene (p/m)	ND	0.00250	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 20:29	EPA 8021B	
Xylene (o)	ND	0.00125	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 20:29	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	81.0 %		80-120		P4D0112	04/01/24 10:35	04/01/24 20:29	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	137 %		80-120		P4D0112	04/01/24 10:35	04/01/24 20:29	EPA 8021B	S-GC

Organics by GC									
Gasoline Range Organics	ND	31.2	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 22:39	EPA 8015M	
Diesel Range Organics	ND	31.2	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 22:39	EPA 8015M	
Mineral Oil Range Organics	ND	31.2	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 22:39	EPA 8015M	
Surrogate: 1-Chlorooctane	79.0 %		70-130		P4D0118	04/01/24 07:55	04/01/24 22:39	EPA 8015M	
Surrogate: o-Terphenyl	88.0 %		70-130		P4D0118	04/01/24 07:55	04/01/24 22:39	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	7.88	1.25	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	20.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

SW-4 (3.0')
4D01005-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 20:52	EPA 8021B	
Toluene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 20:52	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 20:52	EPA 8021B	
Xylene (p/m)	0.00687	0.00244	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 20:52	EPA 8021B	
Xylene (o)	0.00129	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 20:52	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	81.6 %		80-120		P4D0112	04/01/24 10:35	04/01/24 20:52	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	128 %		80-120		P4D0112	04/01/24 10:35	04/01/24 20:52	EPA 8021B	S-GC

Organics by GC

Gasoline Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 23:03	EPA 8015M	
Diesel Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 23:03	EPA 8015M	
Mineral Oil Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 23:03	EPA 8015M	
Surrogate: 1-Chlorooctane	81.4 %		70-130		P4D0118	04/01/24 07:55	04/01/24 23:03	EPA 8015M	
Surrogate: o-Terphenyl	88.3 %		70-130		P4D0118	04/01/24 07:55	04/01/24 23:03	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.22	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	18.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

SW-5 (3.0')
4D01005-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00123	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 21:14	EPA 8021B	
Toluene	ND	0.00123	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 21:14	EPA 8021B	
Ethylbenzene	ND	0.00123	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 21:14	EPA 8021B	
Xylene (p/m)	ND	0.00247	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 21:14	EPA 8021B	
Xylene (o)	ND	0.00123	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 21:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	81.2 %		80-120		P4D0112	04/01/24 10:35	04/01/24 21:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	126 %		80-120		P4D0112	04/01/24 10:35	04/01/24 21:14	EPA 8021B	S-GC

Organics by GC									
Gasoline Range Organics	ND	30.9	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 23:26	EPA 8015M	
Diesel Range Organics	ND	30.9	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 23:26	EPA 8015M	
Mineral Oil Range Organics	ND	30.9	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 23:26	EPA 8015M	
Surrogate: 1-Chlorooctane	81.0 %		70-130		P4D0118	04/01/24 07:55	04/01/24 23:26	EPA 8015M	
Surrogate: o-Terphenyl	91.0 %		70-130		P4D0118	04/01/24 07:55	04/01/24 23:26	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.23	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	19.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

SW-6 (3.0')
4D01005-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 21:37	EPA 8021B	
Toluene	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 21:37	EPA 8021B	
Ethylbenzene	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 21:37	EPA 8021B	
Xylene (p/m)	ND	0.00241	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 21:37	EPA 8021B	
Xylene (o)	ND	0.00120	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 21:37	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	81.9 %		80-120		P4D0112	04/01/24 10:35	04/01/24 21:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	122 %		80-120		P4D0112	04/01/24 10:35	04/01/24 21:37	EPA 8021B	S-GC

Organics by GC

Gasoline Range Organics	ND	30.1	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 23:50	EPA 8015M	
Diesel Range Organics	ND	30.1	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 23:50	EPA 8015M	
Mineral Oil Range Organics	ND	30.1	mg/kg dry	1	P4D0118	04/01/24 07:55	04/01/24 23:50	EPA 8015M	
Surrogate: 1-Chlorooctane	78.3 %		70-130		P4D0118	04/01/24 07:55	04/01/24 23:50	EPA 8015M	
Surrogate: o-Terphenyl	88.4 %		70-130		P4D0118	04/01/24 07:55	04/01/24 23:50	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.20	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	17.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

SW-7 (4.0')
4D01005-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 22:00	EPA 8021B	
Toluene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 22:00	EPA 8021B	
Ethylbenzene	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 22:00	EPA 8021B	
Xylene (p/m)	ND	0.00244	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 22:00	EPA 8021B	
Xylene (o)	ND	0.00122	mg/kg dry	1	P4D0112	04/01/24 10:35	04/01/24 22:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	118 %		80-120		P4D0112	04/01/24 10:35	04/01/24 22:00	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	82.0 %		80-120		P4D0112	04/01/24 10:35	04/01/24 22:00	EPA 8021B	

Organics by GC									
Gasoline Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/02/24 00:13	EPA 8015M	
Diesel Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/02/24 00:13	EPA 8015M	
Mineral Oil Range Organics	ND	30.5	mg/kg dry	1	P4D0118	04/01/24 07:55	04/02/24 00:13	EPA 8015M	
Surrogate: 1-Chlorooctane	77.5 %		70-130		P4D0118	04/01/24 07:55	04/02/24 00:13	EPA 8015M	
Surrogate: o-Terphenyl	87.6 %		70-130		P4D0118	04/01/24 07:55	04/02/24 00:13	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.22	mg/kg dry	1	P4D0117	04/01/24 13:52	04/02/24 12:13	EPA 300.0	
% Moisture	18.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

SW-8 (1.0')
4D01005-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00120	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 01:00	EPA 8021B	
Toluene	ND	0.00120	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 01:00	EPA 8021B	
Ethylbenzene	ND	0.00120	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 01:00	EPA 8021B	
Xylene (p/m)	ND	0.00241	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 01:00	EPA 8021B	
Xylene (o)	ND	0.00120	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 01:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	81.0 %		80-120		P4D0114	04/01/24 10:40	04/02/24 01:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	130 %		80-120		P4D0114	04/01/24 10:40	04/02/24 01:00	EPA 8021B	S-GC

Organics by GC

Gasoline Range Organics	ND	30.1	mg/kg dry	1	P4D0119	04/01/24 15:14	04/02/24 03:20	EPA 8015M	
Diesel Range Organics	ND	30.1	mg/kg dry	1	P4D0119	04/01/24 15:14	04/02/24 03:20	EPA 8015M	
Oil Range Organics	ND	30.1	mg/kg dry	1	P4D0119	04/01/24 15:14	04/02/24 03:20	EPA 8015M	
Mineral Oil Range Organics	ND	30.1	mg/kg dry	1	P4D0119	04/01/24 15:14	04/02/24 03:20	EPA 8015M	
Surrogate: 1-Chlorooctane	85.9 %		70-130		P4D0119	04/01/24 15:14	04/02/24 03:20	EPA 8015M	
Surrogate: o-Terphenyl	95.5 %		70-130		P4D0119	04/01/24 15:14	04/02/24 03:20	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.20	mg/kg dry	1	P4D0122	04/01/24 15:32	04/02/24 12:32	EPA 300.0	
% Moisture	17.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

SW-9 (1.0')
4D01005-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00119	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 01:23	EPA 8021B	
Toluene	ND	0.00119	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 01:23	EPA 8021B	
Ethylbenzene	ND	0.00119	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 01:23	EPA 8021B	
Xylene (p/m)	ND	0.00238	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 01:23	EPA 8021B	
Xylene (o)	ND	0.00119	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 01:23	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	80.4 %		80-120		P4D0114	04/01/24 10:40	04/02/24 01:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	132 %		80-120		P4D0114	04/01/24 10:40	04/02/24 01:23	EPA 8021B	S-GC

Organics by GC									
Gasoline Range Organics	ND	29.8	mg/kg dry	1	P4D0119	04/01/24 15:14	04/02/24 03:44	EPA 8015M	
Diesel Range Organics	ND	29.8	mg/kg dry	1	P4D0119	04/01/24 15:14	04/02/24 03:44	EPA 8015M	
Oil Range Organics	ND	29.8	mg/kg dry	1	P4D0119	04/01/24 15:14	04/02/24 03:44	EPA 8015M	
Mineral Oil Range Organics	ND	29.8	mg/kg dry	1	P4D0119	04/01/24 15:14	04/02/24 03:44	EPA 8015M	
Surrogate: 1-Chlorooctane	80.4 %		70-130		P4D0119	04/01/24 15:14	04/02/24 03:44	EPA 8015M	
Surrogate: o-Terphenyl	90.2 %		70-130		P4D0119	04/01/24 15:14	04/02/24 03:44	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	52.1	1.19	mg/kg dry	1	P4D0122	04/01/24 15:32	04/02/24 12:32	EPA 300.0	
% Moisture	16.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

SW-10 (4.0')
4D01005-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00119	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 01:46	EPA 8021B	
Toluene	ND	0.00119	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 01:46	EPA 8021B	
Ethylbenzene	ND	0.00119	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 01:46	EPA 8021B	
Xylene (p/m)	ND	0.00238	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 01:46	EPA 8021B	
Xylene (o)	ND	0.00119	mg/kg dry	1	P4D0114	04/01/24 10:40	04/02/24 01:46	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	81.4 %		80-120		P4D0114	04/01/24 10:40	04/02/24 01:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	126 %		80-120		P4D0114	04/01/24 10:40	04/02/24 01:46	EPA 8021B	S-GC

Organics by GC

Gasoline Range Organics	ND	29.8	mg/kg dry	1	P4D0119	04/01/24 15:14	04/02/24 04:07	EPA 8015M	
Diesel Range Organics	ND	29.8	mg/kg dry	1	P4D0119	04/01/24 15:14	04/02/24 04:07	EPA 8015M	
Oil Range Organics	ND	29.8	mg/kg dry	1	P4D0119	04/01/24 15:14	04/02/24 04:07	EPA 8015M	
Mineral Oil Range Organics	ND	29.8	mg/kg dry	1	P4D0119	04/01/24 15:14	04/02/24 04:07	EPA 8015M	
Surrogate: 1-Chlorooctane	84.3 %		70-130		P4D0119	04/01/24 15:14	04/02/24 04:07	EPA 8015M	
Surrogate: o-Terphenyl	93.3 %		70-130		P4D0119	04/01/24 15:14	04/02/24 04:07	EPA 8015M	

General Chemistry Parameters by EPA / Standard Methods

Chloride	168	1.19	mg/kg dry	1	P4D0122	04/01/24 15:32	04/02/24 12:32	EPA 300.0	
% Moisture	16.0	0.1	%	1	P4D0215	04/02/24 11:09	04/02/24 11:23	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4D0112 - *** DEFAULT PREP ***

Blank (P4D0112-BLK1)		Prepared & Analyzed: 04/01/24								
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0972		"	0.120		81.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.144		"	0.120		120	80-120			

LCS (P4D0112-BS1)		Prepared & Analyzed: 04/01/24								
Benzene	0.0868	0.00100	mg/kg	0.100		86.8	80-120			
Toluene	0.0879	0.00100	"	0.100		87.9	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.231	0.00200	"	0.200		116	80-120			
Xylene (o)	0.0992	0.00100	"	0.100		99.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.102		"	0.120		85.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.137		"	0.120		114	80-120			

LCS Dup (P4D0112-BSD1)		Prepared & Analyzed: 04/01/24								
Benzene	0.0802	0.00100	mg/kg	0.100		80.2	80-120	7.95	20	
Toluene	0.0827	0.00100	"	0.100		82.7	80-120	6.19	20	
Ethylbenzene	0.0980	0.00100	"	0.100		98.0	80-120	4.94	20	
Xylene (p/m)	0.224	0.00200	"	0.200		112	80-120	3.04	20	
Xylene (o)	0.0946	0.00100	"	0.100		94.6	80-120	4.79	20	
Surrogate: 1,4-Difluorobenzene	0.101		"	0.120		84.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.139		"	0.120		116	80-120			

Calibration Blank (P4D0112-CCB1)		Prepared & Analyzed: 04/01/24								
Benzene	0.320		ug/kg							
Toluene	0.400		"							
Ethylbenzene	0.230		"							
Xylene (p/m)	0.430		"							
Xylene (o)	0.200		"							
Surrogate: 1,4-Difluorobenzene	0.0976		"	0.120		81.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.144		"	0.120		120	80-120			

Permian Basin Environmental Lab, L.P.

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Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4D0112 - *** DEFAULT PREP ***

Calibration Blank (P4D0112-CCB2)				Prepared & Analyzed: 04/01/24						
Benzene	0.430		ug/kg							
Toluene	0.250		"							
Ethylbenzene	0.240		"							
Xylene (p/m)	0.260		"							
Xylene (o)	0.420		"							
Surrogate: 1,4-Difluorobenzene	0.0986		"	0.120		82.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.157		"	0.120		130	80-120			S-GC

Calibration Blank (P4D0112-CCB3)				Prepared & Analyzed: 04/01/24						
Benzene	0.360		ug/kg							
Toluene	0.420		"							
Ethylbenzene	0.210		"							
Xylene (p/m)	0.170		"							
Xylene (o)	0.160		"							
Surrogate: 1,4-Difluorobenzene	0.0970		"	0.120		80.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.148		"	0.120		123	80-120			S-GC

Calibration Check (P4D0112-CCV1)				Prepared & Analyzed: 04/01/24						
Benzene	0.0800	0.00100	mg/kg	0.100		80.0	80-120			
Toluene	0.0868	0.00100	"	0.100		86.8	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.240	0.00200	"	0.200		120	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 1,4-Difluorobenzene	0.0975		"	0.120		81.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.156		"	0.120		130	75-125			S-GC

Calibration Check (P4D0112-CCV2)				Prepared & Analyzed: 04/01/24						
Benzene	0.0960	0.00100	mg/kg	0.100		96.0	80-120			
Toluene	0.0929	0.00100	"	0.100		92.9	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.238	0.00200	"	0.200		119	80-120			
Xylene (o)	0.106	0.00100	"	0.100		106	80-120			
Surrogate: 1,4-Difluorobenzene	0.100		"	0.120		83.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.136		"	0.120		113	75-125			

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources
310 West W Wall Ste. 415
Midland TX, 79701

Project: Medwick 32 Federal Com CTB (09.24.2023)
Project Number: 2152
Project Manager: Ashton Thielke

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4D0112 - * DEFAULT PREP *****

Calibration Check (P4D0112-CCV3)

Prepared & Analyzed: 04/01/24

Benzene	0.0994	0.00100	mg/kg	0.100		99.4	80-120			
Toluene	0.0949	0.00100	"	0.100		94.9	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.240	0.00200	"	0.200		120	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.101		"	0.120		84.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.120		110	75-125			

Matrix Spike (P4D0112-MS1)

Source: 4D01005-01

Prepared & Analyzed: 04/01/24

Benzene	0.0688	0.00120	mg/kg dry	0.120	ND	57.1	80-120			
Toluene	0.0726	0.00120	"	0.120	ND	60.2	80-120			
Ethylbenzene	0.0860	0.00120	"	0.120	ND	71.4	80-120			
Xylene (p/m)	0.200	0.00241	"	0.241	ND	82.9	80-120			
Xylene (o)	0.0839	0.00120	"	0.120	ND	69.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.179		"	0.145		124	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.117		"	0.145		80.9	80-120			

Matrix Spike Dup (P4D0112-MSD1)

Source: 4D01005-01

Prepared & Analyzed: 04/01/24

Benzene	0.0886	0.00120	mg/kg dry	0.120	ND	73.5	80-120	25.1	20	
Toluene	0.0850	0.00120	"	0.120	ND	70.6	80-120	15.8	20	
Ethylbenzene	0.0985	0.00120	"	0.120	ND	81.7	80-120	13.5	20	
Xylene (p/m)	0.226	0.00241	"	0.241	ND	94.0	80-120	12.5	20	
Xylene (o)	0.0944	0.00120	"	0.120	ND	78.3	80-120	11.7	20	
Surrogate: 1,4-Difluorobenzene	0.122		"	0.145		84.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.167		"	0.145		116	80-120			

Batch P4D0114 - * DEFAULT PREP *****

Blank (P4D0114-BLK1)

Prepared: 04/01/24 Analyzed: 04/02/24

Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.0961		"	0.120		80.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.162		"	0.120		135	80-120			S-GC

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources
310 West W Wall Ste. 415
Midland TX, 79701

Project: Medwick 32 Federal Com CTB (09.24.2023)
Project Number: 2152
Project Manager: Ashton Thielke

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4D0114 - * DEFAULT PREP *****

LCS (P4D0114-BS1)

Prepared & Analyzed: 04/01/24

Benzene	0.0852	0.00100	mg/kg	0.100		85.2	80-120			
Toluene	0.0807	0.00100	"	0.100		80.7	80-120			
Ethylbenzene	0.0927	0.00100	"	0.100		92.7	80-120			
Xylene (p/m)	0.209	0.00200	"	0.200		105	80-120			
Xylene (o)	0.0891	0.00100	"	0.100		89.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.131		"	0.120		109	80-120			
Surrogate: 1,4-Difluorobenzene	0.101		"	0.120		84.1	80-120			

LCS Dup (P4D0114-BSD1)

Prepared: 04/01/24 Analyzed: 04/02/24

Benzene	0.0938	0.00100	mg/kg	0.100		93.8	80-120	9.68	20	
Toluene	0.0916	0.00100	"	0.100		91.6	80-120	12.6	20	
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120	13.8	20	
Xylene (p/m)	0.238	0.00200	"	0.200		119	80-120	12.9	20	
Xylene (o)	0.103	0.00100	"	0.100		103	80-120	14.2	20	
Surrogate: 1,4-Difluorobenzene	0.100		"	0.120		83.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.136		"	0.120		114	80-120			

Calibration Blank (P4D0114-CCB1)

Prepared & Analyzed: 04/01/24

Benzene	0.360		ug/kg							
Toluene	0.420		"							
Ethylbenzene	0.210		"							
Xylene (p/m)	0.170		"							
Xylene (o)	0.160		"							
Surrogate: 1,4-Difluorobenzene	0.0970		"	0.120		80.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.148		"	0.120		123	80-120			S-GC

Calibration Blank (P4D0114-CCB2)

Prepared: 04/01/24 Analyzed: 04/02/24

Benzene	0.340		ug/kg							
Toluene	0.270		"							
Ethylbenzene	0.300		"							
Xylene (p/m)	0.580		"							
Xylene (o)	0.350		"							
Surrogate: 4-Bromofluorobenzene	0.147		"	0.120		123	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.0971		"	0.120		80.9	80-120			

Permian Basin Environmental Lab, L.P.

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Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4D0114 - *** DEFAULT PREP ***

Calibration Check (P4D0114-CCV1)				Prepared & Analyzed: 04/01/24						
Benzene	0.0994	0.00100	mg/kg	0.100		99.4	80-120			
Toluene	0.0949	0.00100	"	0.100		94.9	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.240	0.00200	"	0.200		120	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 4-Bromofluorobenzene	0.133		"	0.120		110	75-125			
Surrogate: 1,4-Difluorobenzene	0.101		"	0.120		84.1	75-125			

Calibration Check (P4D0114-CCV2)				Prepared: 04/01/24 Analyzed: 04/02/24						
Benzene	0.0845	0.00100	mg/kg	0.100		84.5	80-120			
Toluene	0.0832	0.00100	"	0.100		83.2	80-120			
Ethylbenzene	0.0910	0.00100	"	0.100		91.0	80-120			
Xylene (p/m)	0.218	0.00200	"	0.200		109	80-120			
Xylene (o)	0.0937	0.00100	"	0.100		93.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.135		"	0.120		113	75-125			
Surrogate: 1,4-Difluorobenzene	0.100		"	0.120		83.6	75-125			

Calibration Check (P4D0114-CCV3)				Prepared: 04/01/24 Analyzed: 04/02/24						
Benzene	0.0876	0.00100	mg/kg	0.100		87.6	80-120			
Toluene	0.0902	0.00100	"	0.100		90.2	80-120			
Ethylbenzene	0.100	0.00100	"	0.100		100	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200		117	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.134		"	0.120		111	75-125			
Surrogate: 1,4-Difluorobenzene	0.0962		"	0.120		80.1	75-125			

Matrix Spike (P4D0114-MS1)				Source: 4D01005-21		Prepared: 04/01/24 Analyzed: 04/02/24				
Benzene	0.0481	0.00120	mg/kg dry	0.120	ND	39.9	80-120			QM-05
Toluene	0.0582	0.00120	"	0.120	ND	48.3	80-120			QM-05
Ethylbenzene	0.0710	0.00120	"	0.120	ND	59.0	80-120			QM-05
Xylene (p/m)	0.171	0.00241	"	0.241	ND	71.0	80-120			QM-05
Xylene (o)	0.0753	0.00120	"	0.120	ND	62.5	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	0.117		"	0.145		80.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.188		"	0.145		130	80-120			S-GC

Permian Basin Environmental Lab, L.P.

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Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

BTEX by 8021B - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4D0114 - *** DEFAULT PREP ***

Matrix Spike Dup (P4D0114-MSD1)	Source: 4D01005-21			Prepared: 04/01/24 Analyzed: 04/02/24						
Benzene	0.0683	0.00120	mg/kg dry	0.120	ND	56.7	80-120	34.8	20	QM-05
Toluene	0.0780	0.00120	"	0.120	ND	64.8	80-120	29.1	20	QM-05
Ethylbenzene	0.0954	0.00120	"	0.120	ND	79.2	80-120	29.3	20	QM-05
Xylene (p/m)	0.228	0.00241	"	0.241	ND	94.5	80-120	28.4	20	QM-05
Xylene (o)	0.0969	0.00120	"	0.120	ND	80.4	80-120	25.1	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.190		"	0.145		131	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.117		"	0.145		80.8	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources
310 West W Wall Ste. 415
Midland TX, 79701

Project: Medwick 32 Federal Com CTB (09.24.2023)
Project Number: 2152
Project Manager: Ashton Thielke

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4D0118 - TX 1005

Blank (P4D0118-BLK1)

Prepared & Analyzed: 04/01/24

Gasoline Range Organics	ND	25.0	mg/kg							
Diesel Range Organics	ND	25.0	"							
Mineral Oil Range Organics	ND	25.0	"							
<i>Surrogate: 1-Chlorooctane</i>	<i>81.3</i>		<i>"</i>	<i>100</i>		<i>81.3</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>44.7</i>		<i>"</i>	<i>50.0</i>		<i>89.4</i>	<i>70-130</i>			

LCS (P4D0118-BS1)

Prepared & Analyzed: 04/01/24

Gasoline Range Organics	852	25.0	mg/kg				75-125			
Diesel Range Organics	858	25.0	"	1000		85.8	75-125			
<i>Surrogate: 1-Chlorooctane</i>	<i>103</i>		<i>"</i>	<i>100</i>		<i>103</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>41.1</i>		<i>"</i>	<i>50.0</i>		<i>82.2</i>	<i>70-130</i>			

LCS Dup (P4D0118-BSD1)

Prepared & Analyzed: 04/01/24

Gasoline Range Organics	885	25.0	mg/kg				75-125		20	
Diesel Range Organics	876	25.0	"	1000		87.6	75-125	1.98	20	
<i>Surrogate: 1-Chlorooctane</i>	<i>107</i>		<i>"</i>	<i>100</i>		<i>107</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>41.8</i>		<i>"</i>	<i>50.0</i>		<i>83.5</i>	<i>70-130</i>			

Calibration Check (P4D0118-CCV1)

Prepared & Analyzed: 04/01/24

Gasoline Range Organics	556	25.0	mg/kg	500		111	85-115			
Diesel Range Organics	549	25.0	"	500		110	85-115			
Mineral Oil Range Organics	ND	25.0	"				0-200			
<i>Surrogate: 1-Chlorooctane</i>	<i>91.6</i>		<i>"</i>	<i>100</i>		<i>91.6</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>45.1</i>		<i>"</i>	<i>50.0</i>		<i>90.1</i>	<i>70-130</i>			

Calibration Check (P4D0118-CCV2)

Prepared & Analyzed: 04/01/24

Gasoline Range Organics	577	25.0	mg/kg	500		115	85-115			
Diesel Range Organics	536	25.0	"	500		107	85-115			
Mineral Oil Range Organics	ND	25.0	"				0-200			
<i>Surrogate: 1-Chlorooctane</i>	<i>94.4</i>		<i>"</i>	<i>100</i>		<i>94.4</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>46.7</i>		<i>"</i>	<i>50.0</i>		<i>93.4</i>	<i>70-130</i>			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P4D0119 - TX 1005

LCS (P4D0119-BS1)		Prepared: 04/01/24 Analyzed: 04/02/24								
Gasoline Range Organics	930	25.0	mg/kg				75-125			
Diesel Range Organics	911	25.0	"	1000		91.1	75-125			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	47.6		"	50.0		95.3	70-130			

LCS Dup (P4D0119-BS1)		Prepared: 04/01/24 Analyzed: 04/02/24								
Gasoline Range Organics	947	25.0	mg/kg				75-125		20	
Diesel Range Organics	931	25.0	"	1000		93.1	75-125	2.16	20	
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	50.8		"	50.0		102	70-130			

Calibration Check (P4D0119-CCV1)		Prepared: 04/01/24 Analyzed: 04/02/24								
Gasoline Range Organics	460	25.0	mg/kg	500		92.1	85-115			
Diesel Range Organics	487	25.0	"	500		97.4	85-115			
Mineral Oil Range Organics	ND	25.0	"				0-200			
Surrogate: 1-Chlorooctane	88.8		"	100		88.8	70-130			
Surrogate: o-Terphenyl	42.4		"	50.0		84.8	70-130			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4D0117 - *** DEFAULT PREP ***										
Blank (P4D0117-BLK1)				Prepared: 04/01/24 Analyzed: 04/02/24						
Chloride	ND	1.00	mg/kg							
LCS (P4D0117-BS1)				Prepared: 04/01/24 Analyzed: 04/02/24						
Chloride	17.0		mg/kg	18.0		94.6	90-110			
LCS Dup (P4D0117-BSD1)				Prepared: 04/01/24 Analyzed: 04/02/24						
Chloride	17.1		mg/kg	18.0		95.2	90-110	0.679	10	
Calibration Check (P4D0117-CCV1)				Prepared: 04/01/24 Analyzed: 04/02/24						
Chloride	18.2		mg/kg	20.0		91.2	90-110			
Calibration Check (P4D0117-CCV2)				Prepared: 04/01/24 Analyzed: 04/02/24						
Chloride	18.2		mg/kg	20.0		90.9	90-110			
Matrix Spike (P4D0117-MS1)				Source: 4D01005-01		Prepared: 04/01/24 Analyzed: 04/02/24				
Chloride	97.1		mg/kg	100	0.617	96.5	80-120			
Matrix Spike (P4D0117-MS2)				Source: 4D01005-11		Prepared: 04/01/24 Analyzed: 04/02/24				
Chloride	101		mg/kg	100	-0.00982	101	80-120			
Matrix Spike Dup (P4D0117-MSD1)				Source: 4D01005-01		Prepared: 04/01/24 Analyzed: 04/02/24				
Chloride	97.7		mg/kg	100	0.617	97.1	80-120	0.636	20	
Matrix Spike Dup (P4D0117-MSD2)				Source: 4D01005-11		Prepared: 04/01/24 Analyzed: 04/02/24				
Chloride	100		mg/kg	100	-0.00982	100	80-120	0.924	20	
Batch P4D0122 - *** DEFAULT PREP ***										
Blank (P4D0122-BLK1)				Prepared & Analyzed: 04/01/24						
Chloride	ND	1.00	mg/kg							

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4D0122 - *** DEFAULT PREP ***										
LCS (P4D0122-BS1)				Prepared & Analyzed: 04/01/24						
Chloride	19.6		mg/kg	20.0		98.2	90-110			
LCS Dup (P4D0122-BSD1)				Prepared & Analyzed: 04/01/24						
Chloride	19.7		mg/kg	20.0		98.3	90-110	0.158	10	
Calibration Check (P4D0122-CCV1)				Prepared & Analyzed: 04/01/24						
Chloride	20.0		mg/kg	20.0		99.8	90-110			
Calibration Check (P4D0122-CCV2)				Prepared: 04/01/24 Analyzed: 04/02/24						
Chloride	19.7		mg/kg	20.0		98.6	90-110			
Matrix Spike (P4D0122-MS1)		Source: 4D01005-21		Prepared & Analyzed: 04/01/24						
Chloride	104		mg/kg	100	-0.000710	104	80-120			
Matrix Spike (P4D0122-MS2)		Source: 4D01006-08		Prepared: 04/01/24 Analyzed: 04/02/24						
Chloride	136		mg/kg	100	36.2	99.7	80-120			
Matrix Spike Dup (P4D0122-MSD1)		Source: 4D01005-21		Prepared & Analyzed: 04/01/24						
Chloride	105		mg/kg	100	-0.000710	105	80-120	0.452	20	
Matrix Spike Dup (P4D0122-MSD2)		Source: 4D01006-08		Prepared: 04/01/24 Analyzed: 04/02/24						
Chloride	140		mg/kg	100	36.2	103	80-120	2.69	20	
Batch P4D0215 - *** DEFAULT PREP ***										
Blank (P4D0215-BLK1)				Prepared & Analyzed: 04/02/24						
% Moisture	ND	0.1	%							

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources
310 West W Wall Ste. 415
Midland TX, 79701

Project: Medwick 32 Federal Com CTB (09.24.2023)
Project Number: 2152
Project Manager: Ashton Thielke

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P4D0215 - * DEFAULT PREP *****

Blank (P4D0215-BLK2)		Prepared & Analyzed: 04/02/24							
% Moisture	ND	0.1	%						
Blank (P4D0215-BLK3)		Prepared & Analyzed: 04/02/24							
% Moisture	ND	0.1	%						
Blank (P4D0215-BLK4)		Prepared & Analyzed: 04/02/24							
% Moisture	ND	0.1	%						
Blank (P4D0215-BLK5)		Prepared & Analyzed: 04/02/24							
% Moisture	ND	0.1	%						
Duplicate (P4D0215-DUP1)		Source: 4D01005-10		Prepared & Analyzed: 04/02/24					
% Moisture	15.0	0.1	%		17.0			12.5	20
Duplicate (P4D0215-DUP2)		Source: 4D01005-20		Prepared & Analyzed: 04/02/24					
% Moisture	17.0	0.1	%		18.0			5.71	20
Duplicate (P4D0215-DUP3)		Source: 4D01006-12		Prepared & Analyzed: 04/02/24					
% Moisture	20.0	0.1	%		22.0			9.52	20
Duplicate (P4D0215-DUP4)		Source: 4D01006-22		Prepared & Analyzed: 04/02/24					
% Moisture	9.0	0.1	%		9.0			0.00	20
Duplicate (P4D0215-DUP5)		Source: 4D01006-37		Prepared & Analyzed: 04/02/24					
% Moisture	8.0	0.1	%		8.0			0.00	20
Duplicate (P4D0215-DUP6)		Source: 4D01007-09		Prepared & Analyzed: 04/02/24					
% Moisture	6.0	0.1	%		6.0			0.00	20

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources	Project: Medwick 32 Federal Com CTB (09.24.2023)
310 West W Wall Ste. 415	Project Number: 2152
Midland TX, 79701	Project Manager: Ashton Thielke

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4D0215 - *** DEFAULT PREP ***										
Duplicate (P4D0215-DUP7)		Source: 4D01009-05		Prepared & Analyzed: 04/02/24						
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P4D0215-DUP8)		Source: 4D01009-15		Prepared & Analyzed: 04/02/24						
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P4D0215-DUP9)		Source: 4D01009-30		Prepared & Analyzed: 04/02/24						
% Moisture	5.0	0.1	%		4.0			22.2	20	R3
Duplicate (P4D0215-DUPA)		Source: 4D01013-04		Prepared & Analyzed: 04/02/24						
% Moisture	1.0	0.1	%		1.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

Carmona Resources
310 West W Wall Ste. 415
Midland TX, 79701

Project: Medwick 32 Federal Com CTB (09.24.2023)
Project Number: 2152
Project Manager: Ashton Thielke

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

NPBEL C Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

4/2/2024

Brent Barron, Laboratory Director/Technical Director

Carmona Resources
310 West W Wall Ste. 415
Midland TX, 79701

Project: Medwick 32 Federal Com CTB (09.24.2023)
Project Number: 2152
Project Manager: Ashton Thielke

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Chain of Custody

Work Order No: 4D01005

Page 1 of 3

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

Program: UST/PT	<input type="checkbox"/> PRP	<input type="checkbox"/> Brownfields	<input type="checkbox"/> RRC	<input type="checkbox"/> Perturb
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:		Medwick 32 Federal Com CTB (09/24/2023)		Turn Around		Pres. Code	ANALYSIS REQUEST										Preservative Codes	
Project Number:	2152	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush				None: NO	DI Water: H ₂ O										
Project Location	Eddy County, New Mexico	Due Date:	24			Cool: Cool	MeOH: Me											
Sampler's Name:	GPJ					HCL: HC	HNO ₃ : HN											
PO #:							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:					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:					NaOH+Ascorbic Acid: SAPC										
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments
CS-1 (3.0)		3/28/2024		X		Comp	1	X	X	X							1	
CS-2 (3.0)		3/28/2024		X		Comp	1	X	X	X							2	
CS-3 (3.0)		3/28/2024		X		Comp	1	X	X	X							3	
CS-4 (3.0)		3/28/2024		X		Comp	1	X	X	X							4	
CS-5 (3.0)		3/28/2024		X		Comp	1	X	X	X							5	
CS-6 (3.0)		3/28/2024		X		Comp	1	X	X	X							6	
CS-7 (3.0)		3/28/2024		X		Comp	1	X	X	X							7	
CS-8 (3.0)		3/28/2024		X		Comp	1	X	X	X							8	
CS-9 (3.0)		3/28/2024		X		Comp	1	X	X	X							9	
CS-10 (4.0)		3/28/2024		X		Comp	1	X	X	X							10	

Comments:

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

4-1-24

Quenna Mueg

13-2-16-24-11-00

4/1/24 8:10

4:52

Chain of Custody

Work Order No: 4D01005

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

Work Order Comments	
Program: UST/PT	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> perfund <input type="checkbox"/>
State of Project:	
Reporting Level: I <input type="checkbox"/> 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:		Medwick 32 Federal Com CTB (09/24/2023)		Turn Around		Pres. Code		ANALYSIS REQUEST										Preservative Codes	
Project Number:	2152	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush <th>Due Date:</th> <td>24</td> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>None: NO</th> <th>DI Water: H₂O</th>	Due Date:	24												None: NO	DI Water: H ₂ O	
Project Location	Eddy County, New Mexico																Cool: Cool	MeOH: Me	
Sampler's Name:	GPJ																HCL: HC	HNO ₃ : HN	
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT		Temp Blank:	Yes	No	Yes <td>No</td> <th>Wet Ice:</th> <td>Yes</td> <td>No</td> <th colspan="8"></th> <th colspan="2"></th>	No	Wet Ice:	Yes	No										
Received Intact:		Yes	No	Thermometer ID:															
Cooler Custody Seals:		Yes	No	N/A	Correction Factor:														
Sample Custody Seals:		Yes	No	N/A	Temperature Reading:														
Total Containers:					Corrected Temperature:														
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters								Sample Comments			
CS-11 (4.0')		3/28/2024		X		Comp	1	BTEx 8021B								11			
CS-12 (4.0')		3/28/2024		X		Comp	1	TPH 8015M (GRO + DRO + MRO)								12			
CS-13 (4.0')		3/28/2024		X		Comp	1	Chloride 300.0								13			
SW-1 (3.0')		3/28/2024		X		Comp	1									14			
SW-2 (3.0')		3/28/2024		X		Comp	1									15			
SW-3 (3.0')		3/28/2024		X		Comp	1									16			
SW-4 (3.0')		3/28/2024		X		Comp	1									17			
SW-5 (3.0')		3/28/2024		X		Comp	1									18			
SW-6 (3.0')		3/28/2024		X		Comp	1									19			
SW-7 (4.0')		3/28/2024		X		Comp	1									20			

Comments:

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

McMinn

4-1-24

1333

7/1/24 8:40

4.5C

Chain of Custody

Work Order No: 4D01005

Page 3 of 3

Page 42 of 42

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

Work Order Comments

Program: UST/PST ☐ PRP ☐ Rowntields ☐ RC ☐ Rptfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADAPT ☐ Other: _____

[illegible]

Comments:

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Date/Time

Answer: Miss

4-1-24

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4.5 ✓

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 329834

QUESTIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 329834
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2326832122
Incident Name	NAPP2326832122 MEDWICK 32 FEDERAL COM 4H-12H BATTERY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2202783477] MEDWICK 32 FED COM 4H,7H,8H,11H &12H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MEDWICK 32 FEDERAL COM 4H-12H BATTERY
Date Release Discovered	09/24/2023
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water 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 Valve Crude Oil Released: 1 BBL Recovered: 1 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 14 BBL Recovered: 13 BBL Lost: 1 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)	A straight body Kimray water dump washed out the bottom of the body and cut a hole in the lined containment under the dump. A total of 13.84 barrels fluid were released inside the lined containment with 1.51 barrels produced water releasing outside the containment. A vac truck was able to recover 13.84 from inside the containment. An environmental company has been contacted and remediation will be scheduled in the coming weeks. Released: 1 barrel crude oil + 14.35 barrels produced water Recovered: 13.84 barrels

District I

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

District II

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

District III

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

District IV

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

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

QUESTIONS, Page 2

Action 329834

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID:	215099
	Action Number:	329834
	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	<i>Unavailable.</i>
<i>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.</i>	

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	<i>Not answered.</i>

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: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 04/04/2024
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District I

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

District II

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

District III

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

District IV

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

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

QUESTIONS, Page 3

Action 329834

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 329834
	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 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
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)	Greater than 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 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1000 (ft.) and ½ (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)	12200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	3350
GRO+DRO (EPA SW-846 Method 8015M)	3090
BTEX (EPA SW-846 Method 8021B or 8260B)	54.1
Benzene (EPA SW-846 Method 8021B or 8260B)	1.8

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	03/27/2024
On what date will (or did) the final sampling or liner inspection occur	03/28/2024
On what date will (or was) the remediation complete(d)	03/28/2024
What is the estimated surface area (in square feet) that will be reclaimed	2250
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	2250
What is the estimated volume (in cubic yards) that will be remediated	300

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 329834

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID:	215099
	Action Number:	329834
	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.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	R360 Red Bluff, Orla, Tx
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 04/04/2024
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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 329834

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 329834
	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 329834

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID:	215099
	Action Number:	329834
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	326574
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/28/2024
What was the (estimated) number of samples that were to be gathered	14
What was the sampling surface area in square feet	2500

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	2250
What was the total volume (cubic yards) remediated	300
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 equipment and liner were removed from the affected area, followed by excavation of all contamination. All impact offsite and area is backfilled.

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: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 04/04/2024
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QUESTIONS, Page 7

Action 329834

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID: 215099
	Action Number: 329834
	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 329834

CONDITIONS

Operator: CIMAREX ENERGY CO. 6001 Deauville Blvd Midland, TX 79706	OGRID:
	215099
	Action Number:
	329834
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation closure approved. Thanks for such a thorough report!	4/19/2024