CARMONA RESOURCES

SITE INFORMATION

Closure Report
Azul State 13 Federal Com 1H
Incident ID: nAPP2225859009
Lea County, New Mexico
Unit D Sec 13 T23S R33E
32.31101°, -103.53347°

Produced Water Release
Point of Release: A water pump seal failed on the water transfer pump
Release Date: 09/04/2022
Volume Released: 12 Barrels of Produced Water
Volume Recovered: 10 Barrels of Produced Water

CARMONA RESOURCES

Prepared for:
Cimarex Energy Co.
600 N. Marienfeld Street
Suite 600
Midland, Texas 79701

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

310 West Wall Street, Suite 415
Midland TX, 79701
432.813.1992

CARMONA RESOURCES

TABLE OF CONTENTS

310 West Wall Street, Suite 415
Midland TX, 79701
432.813.1992

CARMONA RESOURCES

October 6, 2022

New Mexico Oil Conservation Division
1220 South St, Francis Drive
Santa Fe, NM 87505

Re: Closure Report
Azul State 13 Federal Com 1H
Cimarex Energy Co.
Site Location: Unit D, S13, T23S, R33E
(Lat 32.31101º, Long -103.53347°)
Lea County, New Mexico

To whom it may concern:

On behalf of Cimarex Energy Co. (Cimarex), Carmona Resources, LLC has prepared this letter to document site activities for Azul State 13 Federal Com 1H. The site is located at 32.31101º, -103.53347º within Unit D, S13, T23S, R33E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on September 14, 2022, due to a water pump seal failing on the water transfer pump. It resulted in approximately twelve (12) barrels of produced water, and ten (10) barrels of produced water were recovered. The impacted area is located on the pad and is shown on Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low 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 well is located approximately 0.52 miles Northeast of the site in S12, T35S, R33E and was drilled in 1996. The well has a reported depth to groundwater of 324.95’ feet below ground surface (ft bgs). A copy of the 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

310 West Wall Street, Suite 415
Midland TX, 79701
432.813.1992

CARMONA RESOURCES

4.0 Remediation Activities

Carmona Resources personnel were onsite on September 26, 2022, to supervise the remediation activities and collect confirmation samples. Before collecting composite confirmation samples, the NMOCD division office was notified via email on September 22, 2022, per Subsection D of 19.15.29.12 NMAC. See Appendix D. The areas of CS-1 through CS-3 were excavated to a depth 1.5' below the surface to remove all impacted soils. A total of three (3) confirmation floor samples were collected (CS-1 through CS-3), and six (6) sidewall samples (SW-1 through SW-6), were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The excavation depths and confirmation sample locations are shown in Figure 3.

All final confirmation samples were below the regulatory requirements for TPH, BTEX, and chloride. Refer to Table 1.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 40 cubic yards of material were excavated and transported offsite for proper disposal.

The following serves to verify that the affected liner has been inspected and found to be in serviceable condition in accordance with 19.15.29.11 A.(5)(a)(i-ii) of the New Mexico Administrative Code.

5.0 Conclusion

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

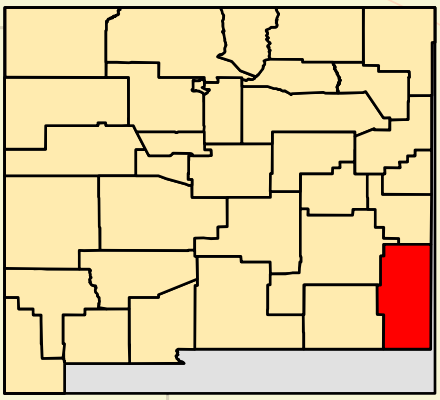
Mike Carmona
Environmental Manager

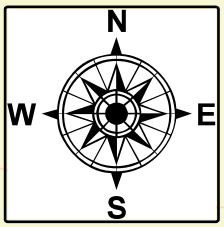
Ashton Thielke
Sr. Project Manager

310 West Wall Street, Suite 415
Midland TX, 79701
432.813.1992

FIGURES

CARMONA RESOURCES





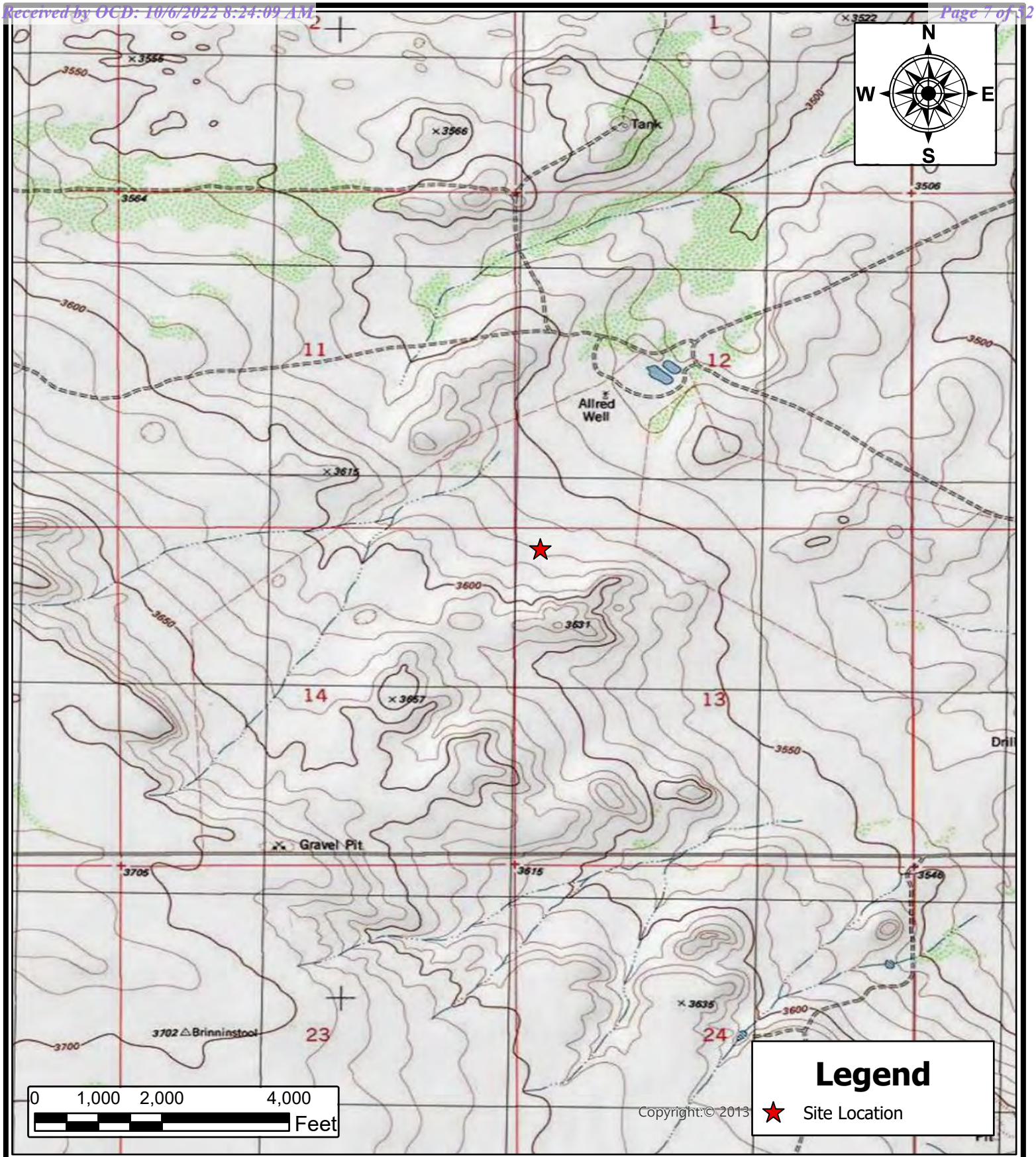
OVERVIEW MAP
CIMAREX ENERGY CO.
AZUL STATE 13 FEDERAL COM 1H
LEA COUNTY, NEW MEXICO
32.311010, -103.533470

SCALE: As Shown | Date: 9/29/2022

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

NOTES:
1. Base Image: ESRI Maps & Data 2022
2. Map Projection: WGS84

DRAWING NUMBER:
FIGURE 1
SHEET NUMBER:
1 of 1



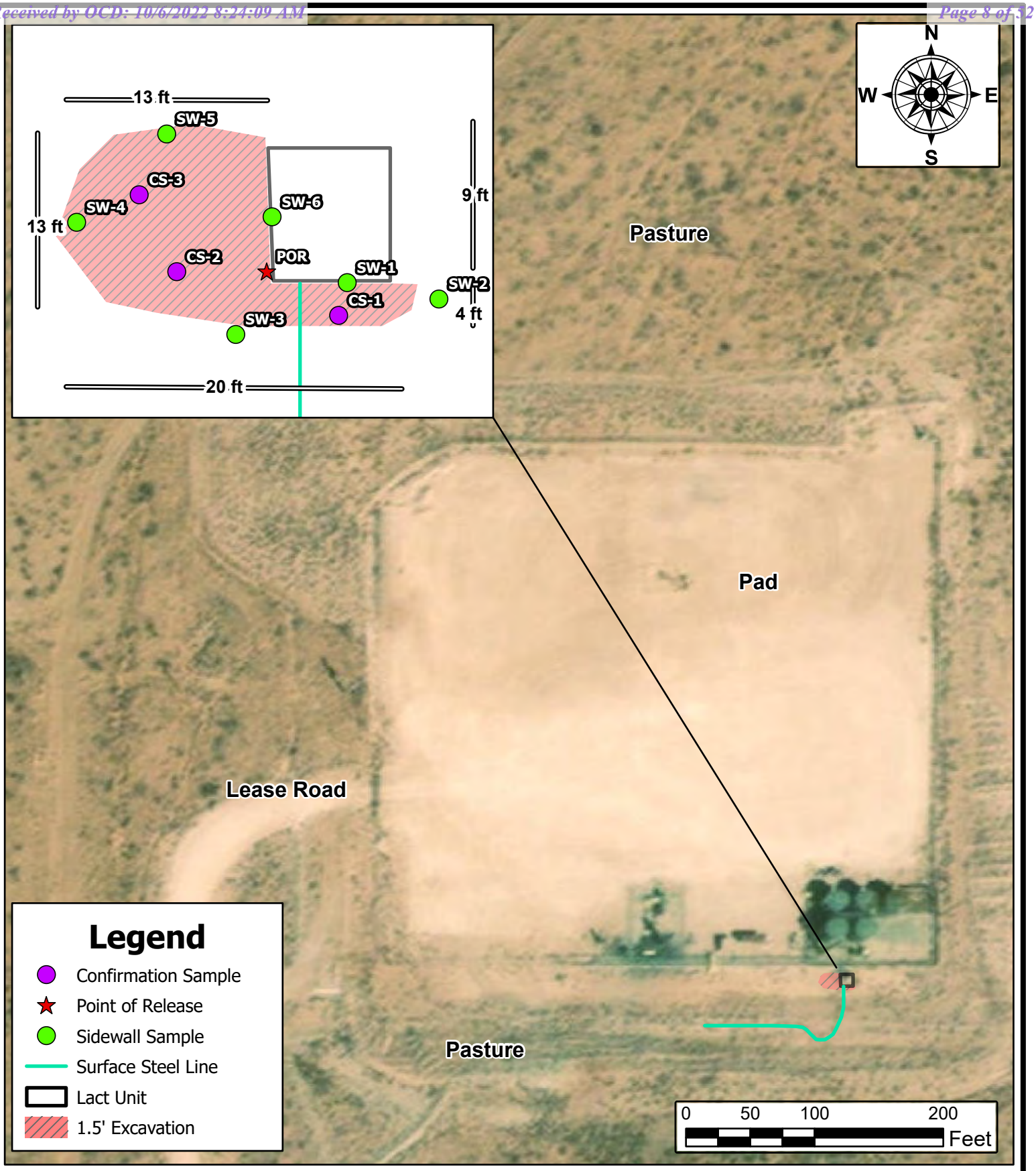
TOPOGRAPHIC MAP
CIMAREX ENERGY CO.
AZUL STATE 13 FEDERAL COM 1H
LEA COUNTY, NEW MEXICO
32.311010, -103.533470

SCALE: As Shown | Date: 9/28/2022

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

NOTES:
1. Base Image: ESRI Maps & Data 2022
2. Map Projection: WGS84

DRAWING NUMBER:
FIGURE 2
SHEET NUMBER:
1 of 1



EXCAVATION DEPTH MAP
CIMAREX ENERGY CO.
AZUL STATE 13 FEDERAL COM 1H
LEA COUNTY, NEW MEXICO
32.311010, -103.533470

SCALE: As Shown | Date: 9/28/2022

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

NOTES:
1. Base Image: ESRI Maps & Data 2022
2. Map Projection: WGS84

DRAWING NUMBER:
FIGURE 3
SHEET NUMBER:
1 of 1

APPENDIX A

CARMONA RESOURCES

Table 1
Cimarex
Azul State 13 Federal Com 1H
Lea County, New Mexico

Sample ID	Date	Depth (in)	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	9/26/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-2	9/26/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-3	9/26/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-1	9/26/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-2	9/26/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-3	9/26/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-4	9/26/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-5	9/26/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-6	9/26/2022	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Regulatory Criteria [A]						**100 mg/kg**	**10 mg/kg**	-	-	-	**50 mg/kg**	**600 mg/kg**

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

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

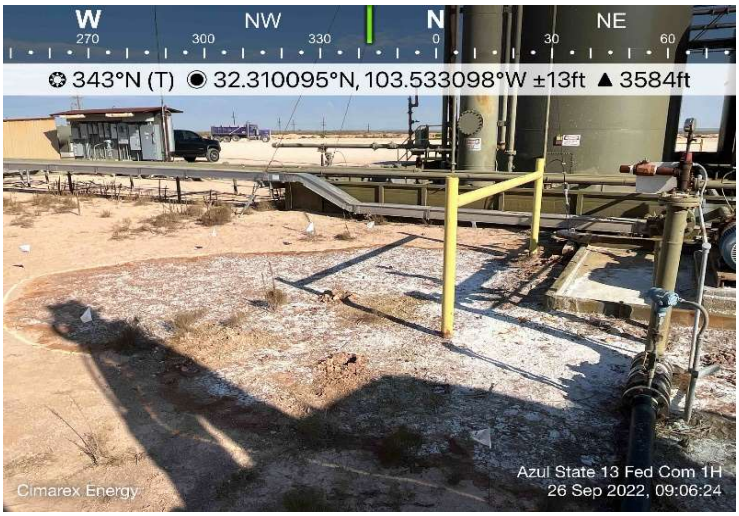
Cimarex

Photograph No. 1

Facility: Azul State 13 Federal Com 1H

County: Lea County, New Mexico

Description:
View Northwest, area of impact.



Photograph No. 2

Facility: Azul State 13 Federal Com 1H

County: Lea County, New Mexico

Description:
View Northeast, area of impact.

Photograph No. 3

Facility: Azul State 13 Federal Com 1H

County: Lea County, New Mexico

Description:
View Northeast, area of Confirmation Sample (CS-1).

PHOTOGRAPHIC LOG

Cimarex

Photograph No. 4

Facility: Azul State 13 Federal Com 1H

County: Lea County, New Mexico

Description:
View Northeast, area of Confirmation Sample (CS-2 and CS-3).

Photograph No. 5

Facility: Azul State 13 Federal Com 1H

County: Lea County, New Mexico

Description:
View Northwest, area of Confirmation Sample (CS-2 and CS-3).

Photograph No. 6

Facility: Azul State 13 Federal Com 1H

County: Lea County, New Mexico

Description:
View East, area of backfill.

PHOTOGRAPHIC LOG

Cimarex

Photograph No. 7

Facility: Azul State 13 Federal Com 1H

County: Lea County, New Mexico

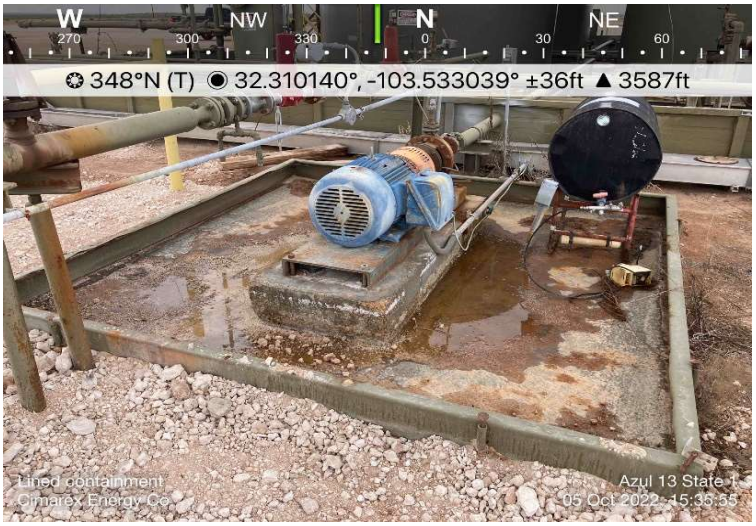
Description:
View East, area containment after recent rains.

Photograph No. 8

Facility: Azul State 13 Federal Com 1H

County: Lea County, New Mexico

Description:
View North, area containment after recent rains.



Photograph No. 9

Facility: Azul State 13 Federal Com 1H

County: Lea County, New Mexico

Description:
View Southwest, area containment after recent rains.

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	nAPP2225859009
District RP	
Facility ID	fAPP2201732004
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)* nAPP2225859009
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

Location of Release Source

Latitude 32.31101 Longitude -103.53347

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Azul State 13 Federal Com 1H	Site Type: Battery
Date Release Discovered: 9/14/2022	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
D	13	23S	33E	Lea

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)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 12	Volume Recovered (bbls) 10
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Equipment Failure
A water pump seal failed on a water transfer pump, releasing 10 barrels produced water into lined containment and 2 barrels outside containment. The seal was immediately replaced and put back into service. A vac truck is scheduled to recover all fluids inside containment and an environmental company will remediate impacted soils. The containment will be washed and a liner inspection will be scheduled.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2225859009
District RP	
Facility ID	fAPP2201732004
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? By: Laci Luig To: OCD Enviro By: Email	

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.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Laci Luig Title: ESH Specialist

Signature: Laci Luig Date: 9/15/2022

email: laci.luig@coterra.com Telephone: (432) 208-3035

OCD Only

Received by: Jocelyn Harimon Date: 10/06/2022

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2225859009
District RP	
Facility ID	fAPP2201732004
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	324.95 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2225859009
District RP	
Facility ID	fAPP2201732004
Application ID	

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

Printed Name: Laci Luig Title: ESH Specialist

Signature: Laci Luig Date: 10/06/2022

email: laci.luig@coterra.com Telephone: (432) 208-3035

OCD Only

Received by: Jocelyn Harimon Date: 10/06/2022

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2225859009
District RP	
Facility ID	fAPP2201732004
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Laci Luig Title: ESH Specialist

Signature: Laci Luig Date: 10/06/2022

email: laci.luig@coterra.com Telephone: (432) 208-3035

OCD Only

Received by: Jocelyn Harimon Date: 10/06/2022

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

Closure Approved by: Jennifer Nobui Date: 10/13/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

Ashton Thielke

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Thursday, September 22, 2022 9:36 AM
To: Ashton Thielke
Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Subject: FW: [EXTERNAL] nAPP2225859009 - AZUL STATE 13 FEDERAL COM 1H (9.14.2022) - Confirmation Sampling

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

Ashton

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

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, September 22, 2022 8:25 AM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: Fw: [EXTERNAL] nAPP2225859009 - AZUL STATE 13 FEDERAL COM 1H (9.14.2022) - Confirmation Sampling

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From: Ashton Thielke <Ashton.Thielke@coterra.com>
Sent: Thursday, September 22, 2022 8:16 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Laci Luig <Laci.Luig@coterra.com>
Subject: [EXTERNAL] nAPP2225859009 - AZUL STATE 13 FEDERAL COM 1H (9.14.2022) - Confirmation Sampling

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

This email serves as notification for confirmation sampling and liner inspection on the above mentioned site. Sampling is scheduled to begin as early as September 26, 2022, weather and soil conditions permitting. Carmona Resources will be onsite for confirmation sampling.

Thank you,

COTERRA

Ashton Thielke | PBU - Environmental Consultant
T: 432.813.5347 | M: 281.753.5659 | ashton.thielke@coterra.com | www.coterra.com
Coterra Energy Inc. | 600 N. Marienfeld Street, Suite 600 | Midland, TX 79701

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

APPENDIX D

CARMONA RESOURCES

Nearest Water Well

Cimarex Energy Co.

Legend

- 0.50 Mile Radius
- 0.52 Miles
- 1.41 Miles
- 2.16 Miles
- 2.17 Miles
- 2.24 Miles
- 2.54 Miles
- 3.43 Miles
- Azul State 13 Federal Com 1H
- NMSEO Water Well
- USGS Water Well

305' - Drilled 1999

Water Spur

21

Delaware Basin Rd

324.95' - Drilled 1996

Azul State 13 Federal Com 1H

BEBIDAS 16 STATE SWD 001

470.50' - Drilled 1976

330' - Drilled 2019

225' - Drilled 1940

225' - Drilled 1922

124.07' - Drilled 1996

21

Google Earth

2 mi

N

Low Karst

Cimarex Energy Co.

Legend

Azul State 13 Federal Com 1H

Low

Water Spur

Azul State 13 Federal Com 1H

Delaware Basin Rd

N

1 mi

Google Earth

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-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03582 POD1	C	LE	4	1	1	14	23S	33E	636583	3575666	1487	590		
C 04353 POD1	CUB	ED	4	2	2	24	23S	33E	639474	3574098	2255	603	330	273
CP 01886 POD1	CP	LE	4	1	4	07	23S	34E	640646	3576545	2677			
CP 01130 POD1	CP	LE	2	1	2	07	23S	34E	640662	3577558	3112	27		
CP 01130 POD2	CP	LE	2	1	2	07	23S	34E	640674	3577549	3116	27		
CP 00278 POD1	CP	LE	1	3	4	06	23S	34E	640413	3577897	3117	640		
C 02282	CUB	LE	3	1	1	25	23S	33E	638098	3572436*	3418	325	225	100
C 02283	CUB	LE	4	2	2	26	23S	33E	637896	3572431*	3427	325	225	100
CP 00872 POD1	CP	LE	1	1	1	08	23S	34E	641225	3577504*	3570	494	305	189
CP 01075 POD1	CP	LE	1	1	1	08	23S	34E	641278	3577525	3627	430	20	410
CP 01502 POD1	CP	LE	4	3	3	05	23S	34E	641316	3577635	3712	648	200	448
CP 00556 POD1	CP	LE	4	4	3	08	23S	34E	641762	3576206	3720	497	255	242

Average Depth to Water: **222 feet**

Minimum Depth: **20 feet**

Maximum Depth: **330 feet**

Record Count: 12

UTMNAD83 Radius Search (in meters):

Easting (X): 638058.49 **Northing (Y):** 3575854.19 **Radius:** 4000

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00872 POD1	1	1	1	08	23S	34E	641225	3577504*

Driller License: 1184 **Driller Company:** WEST TEXAS WATER WELL SERVICE

Driller Name: COLLIS, ROBERT E.

Drill Start Date:	09/29/1997	**Drill Finish Date:**	10/03/1997	**Plug Date:**	
Log File Date:	12/01/1997	**PCW Rcv Date:**	03/01/1999	**Source:**	Shallow
Pump Type:	SUBMER	**Pipe Discharge Size:**	1.5	**Estimated Yield:**	30 GPM
Casing Size:	7.00	**Depth Well:**	494 feet	**Depth Water:**	305 feet

Water Bearing Stratifications:	Top	Bottom	Description
	350	415	Sandstone/Gravel/Conglomerate
	418	460	Other/Unknown
	461	481	Other/Unknown

Casing Perforations:	Top	Bottom
	350	494

Meter Number:	8472	**Meter Make:**	SEAMETRICS
Meter Serial Number:	042018001243	**Meter Multiplier:**	1.0000
Number of Dials:	8	**Meter Type:**	Diversion
Unit of Measure:	Barrels 42 gal.	**Return Flow Percent:**	
Usage Multiplier:		**Reading Frequency:**	Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
12/11/1999	1999	653040	A	jw		0	
04/04/2000	2000	653040	A	jw		0	
07/03/2000	2000	825869	A	jw		5.304	
12/31/2000	2000	1142618	A	jw		9.721	
03/31/2001	2001	1170037	A	jw		0.841	
06/30/2001	2001	1347781	A	jw		5.455	
09/30/2001	2001	1480212	A	jw		4.064	
12/31/2001	2001	1697970	A	jw		6.683	
03/31/2002	2002	1707596	A	jw		0.295	
07/14/2002	2002	1785094	A	jw		2.378	
09/30/2002	2002	1844508	A	jw		1.823	
01/01/2003	2003	1934739	A	jw		2.769	
03/31/2003	2003	2051807	A	jw		3.593	
06/30/2003	2003	2197495	A	jw		4.471	
09/30/2003	2003	2346900	A	jw		4.585	
01/01/2004	2004	33991	R	jw	Meter has been replaced	235.908	
04/01/2004	2004	315287	A	jw		8.633	
06/29/2004	2004	585026	A	jw		8.278	

08/16/2004	2004	716546	A	jw		4.036
09/30/2004	2004	125830	R	jw	New Meter	288.760
01/01/2005	2005	735508	A	jw		0
01/18/2005	2005	387193	A	jw		8.021
04/06/2005	2005	756024	A	jw		0.630
07/11/2005	2005	170600	A	jw		0
10/14/2005	2005	363300	A	jw		5.914
12/29/2005	2005	509100	A	RPT		4.474
05/16/2006	2006	793630	A	RPT		8.732
08/05/2006	2006	1071018	A	RPT		8.513
10/31/2006	2006	1380530	A	RPT		9.499
01/07/2019	2019	0	A	RPT	New Meter	0
03/31/2019	2019	105049	A	RPT		13.540
07/01/2019	2019	175266	A	RPT		9.051
10/01/2019	2019	266350	A	RPT		11.740
01/07/2020	2019	266350	A	RPT		0
04/01/2020	2020	335809	A	RPT		8.953
07/02/2020	2020	430850	A	RPT		12.250
10/09/2020	2020	430850	A	RPT		0
01/07/2021	2020	553593	A	WEB		15.821 X

**YTD Meter Amounts:	Year	Amount
	1999	0
	2000	15.025
	2001	17.043
	2002	4.496
	2003	15.418
	2004	545.615
	2005	19.039
	2006	26.744
	2019	34.331
	2020	37.024

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
NA	C 04353 POD1	4	2	2	24	23S	33E	639474	3574098

Driller License: 1737 **Driller Company:** SHADE TREE DRILLING

Driller Name: JUSTIN MULLINS

Drill Start Date:	11/04/2019	**Drill Finish Date:**	11/13/2019	**Plug Date:**	
Log File Date:	01/29/2020	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	30 GPM
Casing Size:	6.00	**Depth Well:**	603 feet	**Depth Water:**	330 feet

Water Bearing Stratifications:	Top	Bottom	Description
	330	344	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	301	601

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	C 02282	3	1	1	25	23S	33E	638098	3572436*

Driller License: **Driller Company:**

Driller Name: CARL BRININSTOOL

Drill Start Date:		**Drill Finish Date:**	12/31/1922	**Plug Date:**	
Log File Date:		**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	3 GPM
Casing Size:	6.50	**Depth Well:**	325 feet	**Depth Water:**	225 feet

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer

Point of Diversion Summary

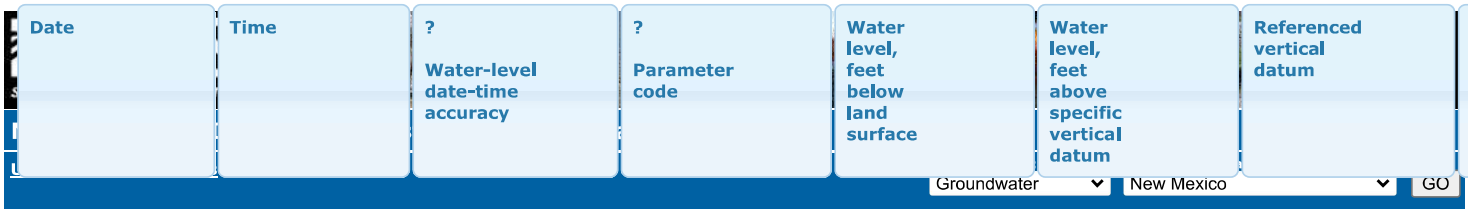
Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	C 02283	4	2	2	26	23S	33E	637896	3572431*

Driller License: **Driller Company:**

Driller Name: YANK BRININSTOOL

Drill Start Date:		**Drill Finish Date:**	12/31/1940	**Plug Date:**	
Log File Date:		**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	3 GPM
Casing Size:	6.50	**Depth Well:**	325 feet	**Depth Water:**	225 feet

***UTM location was derived from PLSS - see Help**



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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 =
- 321611103321601

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321611103321601 23S.33E.26.42100

Lea County, New Mexico
Latitude 32°16'28.0", Longitude 103°32'15.6" NAD83
Land-surface elevation 3,641 feet above NAVD88
The depth of the well is 190 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1972-09-21		D	62610		3455.30	NGVD29	P	Z		
1972-09-21		D	62611		3457.00	NAVD88	P	Z		
1972-09-21		D	72019	184.00			P	Z		
1981-03-27		D	62610		3465.38	NGVD29	P	Z		
1981-03-27		D	62611		3467.08	NAVD88	P	Z		
1981-03-27		D	72019	173.92			P	Z		
1986-04-16		D	62610		3512.78	NGVD29	1	Z		
1986-04-16		D	62611		3514.48	NAVD88	1	Z		
1986-04-16		D	72019	126.52			1	Z		
1991-05-24		D	62610		3514.74	NGVD29	1	Z		
1991-05-24		D	62611		3516.44	NAVD88	1	Z		
1991-05-24		D	72019	124.56			1	Z		
1996-03-13		D	62610		3515.23	NGVD29	1	S		
1996-03-13		D	62611		3516.93	NAVD88	1	S		

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	
1996-03-13		D	72019	124.07		1	S

Explanation

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

Questions about sites/data?
Feedback on this web site
Automated retrievals
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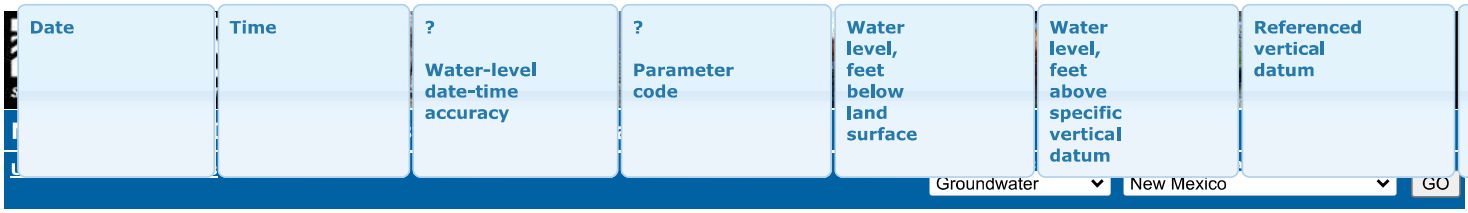
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2022-09-29 10:36:43 EDT
0.3 0.26 nadww01



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Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321843103315101

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321843103315101 23S.33E.12.312423

Lea County, New Mexico
Latitude 32°19'06", Longitude 103°31'53" NAD83
Land-surface elevation 3,531.00 feet above NGVD29
The depth of the well is 400 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1965-11-03		D	62610		3184.75	NGVD29	P	Z		
1965-11-03		D	62611		3186.41	NAVD88	P	Z		
1965-11-03		D	72019	346.25			P	Z		
1968-06-11		D	62610		3196.61	NGVD29	P	Z		
1968-06-11		D	62611		3198.27	NAVD88	P	Z		
1968-06-11		D	72019	334.39			P	Z		
1971-01-13		D	62610		3204.30	NGVD29	1	Z		
1971-01-13		D	62611		3205.96	NAVD88	1	Z		
1971-01-13		D	72019	326.70			1	Z		
1972-09-21		D	62610		3179.30	NGVD29	P	Z		
1972-09-21		D	62611		3180.96	NAVD88	P	Z		
1972-09-21		D	72019	351.70			P	Z		
1976-12-08		D	62610		3185.78	NGVD29	P	Z		
1976-12-08		D	62611		3187.44	NAVD88	P	Z		

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	
1976-12-08	D	72019	345.22			P	Z
1981-03-27	D	62610		3200.08	NGVD29	P	Z
1981-03-27	D	62611		3201.74	NAVD88	P	Z
1981-03-27	D	72019	330.92			P	Z
1986-04-16	D	62610		3205.18	NGVD29	1	Z
1986-04-16	D	62611		3206.84	NAVD88	1	Z
1986-04-16	D	72019	325.82			1	Z
1991-05-30	D	62610		3205.68	NGVD29	1	Z
1991-05-30	D	62611		3207.34	NAVD88	1	Z
1991-05-30	D	72019	325.32			1	Z
1996-03-13	D	62610		3206.05	NGVD29	1	S
1996-03-13	D	62611		3207.71	NAVD88	1	S
1996-03-13	D	72019	324.95			1	S

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
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.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321746103352301

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321746103352301 23S.33E.17.42331

Lea County, New Mexico
Latitude 32°17'46", Longitude 103°35'23" NAD27
Land-surface elevation 3,699 feet above NAVD88
The depth of the well is 550 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1972-09-21		D	62610		3192.86	NGVD29	1	Z		
1972-09-21		D	62611		3194.60	NAVD88	1	Z		
1972-09-21		D	72019	504.40			1	Z		
1976-12-08		D	62610		3226.76	NGVD29	1	Z		
1976-12-08		D	62611		3228.50	NAVD88	1	Z		
1976-12-08		D	72019	470.50			1	Z		

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

Section	Code	Description
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	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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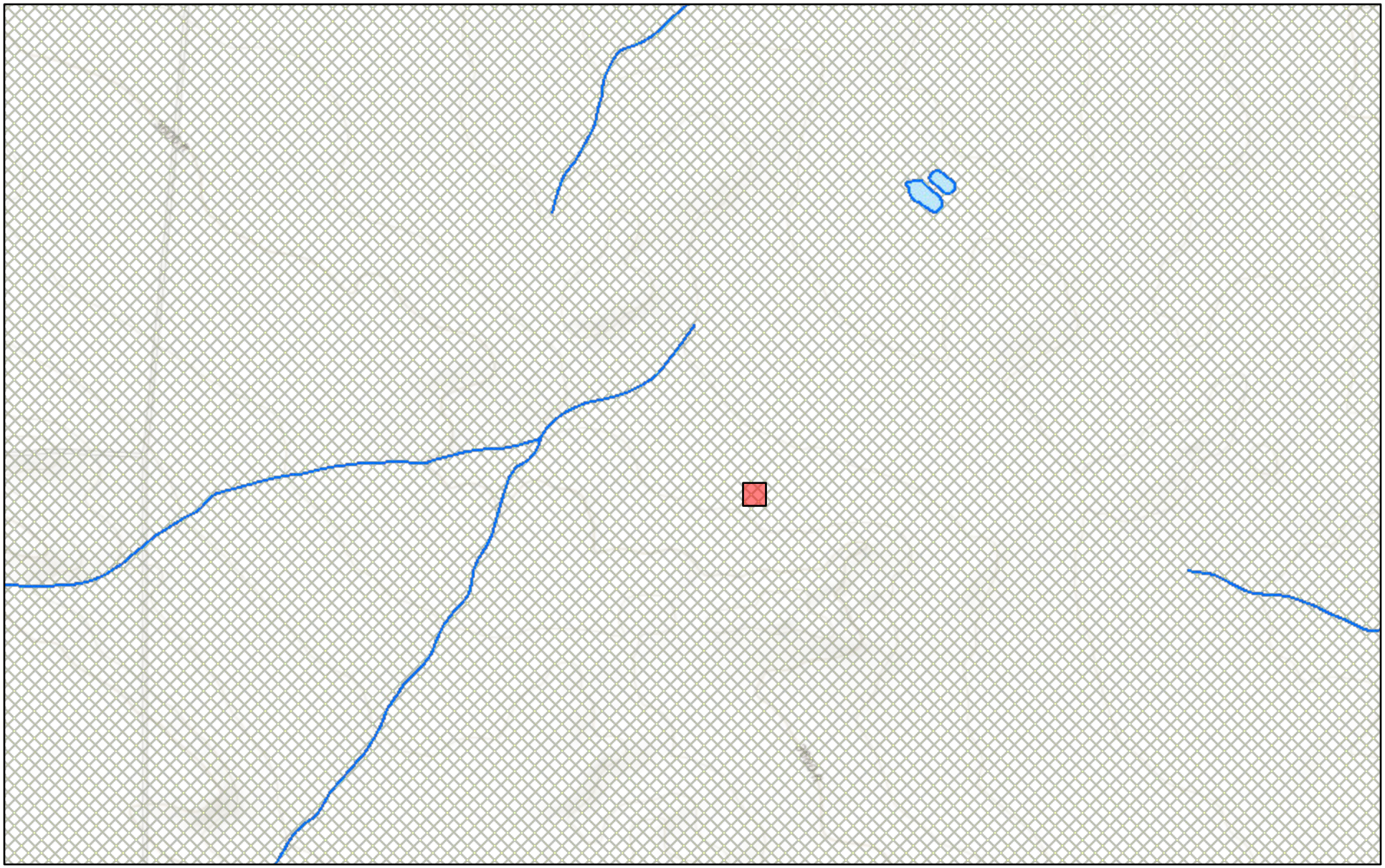
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2022-09-29 10:35:02 EDT
0.3 0.26 nadww02

New Mexico NFHL Data



September 29, 2022

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

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

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APPENDIX E

CARMONA RESOURCES

CARDINAL Laboratories

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

September 27, 2022

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: AZUL STATE 13 FEDERAL COM 1H

Enclosed are the results of analyses for samples received by the laboratory on 09/26/22 12:45.

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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/26/2022	Sampling Date:	09/26/2022
Reported:	09/27/2022	Sampling Type:	Soil
Project Name:	AZUL STATE 13 FEDERAL COM 1H	Sampling Condition:	Cool & Intact
Project Number:	1131	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: CS - 1 (1.5') (H224451-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	2.03	102	2.00	7.53	
Toluene*	<0.050	0.050	09/26/2022	ND	1.97	98.4	2.00	6.84	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.91	95.4	2.00	7.74	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.84	97.3	6.00	7.48	
Total BTEX	<0.300	0.300	09/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.9 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	09/27/2022	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	221	110	200	3.76	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	200	100	200	0.768	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane *65.5 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *72.2 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/26/2022	Sampling Date:	09/26/2022
Reported:	09/27/2022	Sampling Type:	Soil
Project Name:	AZUL STATE 13 FEDERAL COM 1H	Sampling Condition:	Cool & Intact
Project Number:	1131	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: CS - 2 (1.5') (H224451-02)

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	09/26/2022	ND	2.03	102	2.00	7.53	
Toluene*	<0.050	0.050	09/26/2022	ND	1.97	98.4	2.00	6.84	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.91	95.4	2.00	7.74	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.84	97.3	6.00	7.48	
Total BTEX	<0.300	0.300	09/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.2 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	09/27/2022	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	221	110	200	3.76	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	200	100	200	0.768	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane *72.7 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *81.5 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/26/2022	Sampling Date:	09/26/2022
Reported:	09/27/2022	Sampling Type:	Soil
Project Name:	AZUL STATE 13 FEDERAL COM 1H	Sampling Condition:	Cool & Intact
Project Number:	1131	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: CS - 3 (1.5') (H224451-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2022	ND	2.03	102	2.00	7.53	
Toluene*	<0.050	0.050	09/26/2022	ND	1.97	98.4	2.00	6.84	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.91	95.4	2.00	7.74	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.84	97.3	6.00	7.48	
Total BTEX	<0.300	0.300	09/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.0 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/27/2022	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	221	110	200	3.76	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	200	100	200	0.768	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane *76.8 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *86.3 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/26/2022	Sampling Date:	09/26/2022
Reported:	09/27/2022	Sampling Type:	Soil
Project Name:	AZUL STATE 13 FEDERAL COM 1H	Sampling Condition:	Cool & Intact
Project Number:	1131	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 1 (1.5') (H224451-04)

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	09/26/2022	ND	2.03	102	2.00	7.53	
Toluene*	<0.050	0.050	09/26/2022	ND	1.97	98.4	2.00	6.84	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.91	95.4	2.00	7.74	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.84	97.3	6.00	7.48	
Total BTEX	<0.300	0.300	09/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.6 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	09/27/2022	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	221	110	200	3.76	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	200	100	200	0.768	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane *67.0 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *74.8 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/26/2022	Sampling Date:	09/26/2022
Reported:	09/27/2022	Sampling Type:	Soil
Project Name:	AZUL STATE 13 FEDERAL COM 1H	Sampling Condition:	Cool & Intact
Project Number:	1131	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 2 (1.5') (H224451-05)

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	09/26/2022	ND	2.03	102	2.00	7.53	
Toluene*	<0.050	0.050	09/26/2022	ND	1.97	98.4	2.00	6.84	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.91	95.4	2.00	7.74	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.84	97.3	6.00	7.48	
Total BTEX	<0.300	0.300	09/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.2 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	09/27/2022	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	221	110	200	3.76	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	200	100	200	0.768	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane *71.7 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *77.9 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/26/2022	Sampling Date:	09/26/2022
Reported:	09/27/2022	Sampling Type:	Soil
Project Name:	AZUL STATE 13 FEDERAL COM 1H	Sampling Condition:	Cool & Intact
Project Number:	1131	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 3 (1.5') (H224451-06)

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	09/26/2022	ND	2.03	102	2.00	7.53	
Toluene*	<0.050	0.050	09/26/2022	ND	1.97	98.4	2.00	6.84	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.91	95.4	2.00	7.74	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.84	97.3	6.00	7.48	
Total BTEX	<0.300	0.300	09/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.9 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	09/27/2022	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	221	110	200	3.76	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	200	100	200	0.768	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane *74.4 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *81.1 %* *46.3-178*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/26/2022	Sampling Date:	09/26/2022
Reported:	09/27/2022	Sampling Type:	Soil
Project Name:	AZUL STATE 13 FEDERAL COM 1H	Sampling Condition:	Cool & Intact
Project Number:	1131	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 4 (1.5') (H224451-07)

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	09/26/2022	ND	2.03	102	2.00	7.53	
Toluene*	<0.050	0.050	09/26/2022	ND	1.97	98.4	2.00	6.84	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.91	95.4	2.00	7.74	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.84	97.3	6.00	7.48	
Total BTEX	<0.300	0.300	09/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.2 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	09/27/2022	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	221	110	200	3.76	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	200	100	200	0.768	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane *70.7 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *78.3 %* *46.3-178*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/26/2022	Sampling Date:	09/26/2022
Reported:	09/27/2022	Sampling Type:	Soil
Project Name:	AZUL STATE 13 FEDERAL COM 1H	Sampling Condition:	Cool & Intact
Project Number:	1131	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 5 (1.5') (H224451-08)

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	09/26/2022	ND	2.03	102	2.00	7.53	
Toluene*	<0.050	0.050	09/26/2022	ND	1.97	98.4	2.00	6.84	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.91	95.4	2.00	7.74	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.84	97.3	6.00	7.48	
Total BTEX	<0.300	0.300	09/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.6 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	09/27/2022	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	221	110	200	3.76	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	200	100	200	0.768	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane *85.9 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *94.2 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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:	09/26/2022	Sampling Date:	09/26/2022
Reported:	09/27/2022	Sampling Type:	Soil
Project Name:	AZUL STATE 13 FEDERAL COM 1H	Sampling Condition:	Cool & Intact
Project Number:	1131	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - LEA CO., NM		

Sample ID: SW - 6 (1.5') (H224451-09)

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	09/26/2022	ND	2.03	102	2.00	7.53	
Toluene*	<0.050	0.050	09/26/2022	ND	1.97	98.4	2.00	6.84	
Ethylbenzene*	<0.050	0.050	09/26/2022	ND	1.91	95.4	2.00	7.74	
Total Xylenes*	<0.150	0.150	09/26/2022	ND	5.84	97.3	6.00	7.48	
Total BTEX	<0.300	0.300	09/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.3 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	09/27/2022	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2022	ND	221	110	200	3.76	
DRO >C10-C28*	<10.0	10.0	09/27/2022	ND	200	100	200	0.768	
EXT DRO >C28-C36	<10.0	10.0	09/27/2022	ND					

Surrogate: 1-Chlorooctane *68.0 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *74.9 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H224451

Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 West Wall Ste. 415	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-5347	Email:	laci.luig@coterra.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Azul State 13 Federal Com 1H	Turn Around	
Project Number:	1131	☐ Routine ☑ Rush	
Project Location	Lea Co, NM	Due Date:	48 Hours
Sampler's Name:	AT	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	113
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.6°c
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.4°c
Total Containers:		Corrected Temperature:	0.8°c

	Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500 ~~300.0~~ TX 9/26/22	HOLD
1	CS-1 (1.5')	9/26/2022		X		Comp	1	X	X	X	
2	CS-2 (1.5')	9/26/2022		X		Comp	1	X	X	X	
3	CS-3 (1.5')	9/26/2022		X		Comp	1	X	X	X	
4	SW-1 (1.5')	9/26/2022		X		Comp	1	X	X	X	
5	SW-2 (1.5')	9/26/2022		X		Comp	1	X	X	X	
6	SW-3 (1.5')	9/26/2022		X		Comp	1	X	X	X	
7	SW-4 (1.5')	9/26/2022		X		Comp	1	X	X	X	
8	SW-5 (1.5')	9/26/2022		X		Comp	1	X	X	X	
9	SW-6 (1.5')	9/26/2022		X		Comp	1	X	X	X	

Preservative Codes

None: NO — DI Water: H_2O

Cool: Cool — MeOH: Me

HCL: HC — HNO_3: HN

H_2S0_4: H_2 — NaOH: Na

H_3PO_4: HP

$NaHSO_4$: NABIS

$Na_2S_2O_3$: $NaSO_3$

Zn Acetate+NaOH: Zn

NaOH+Ascorbic Acid: SAPC

Sample Comments

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Tamara Alda Lee	9-26-22 1245	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

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 149233

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 149233
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	10/13/2022