



## SITE INFORMATION

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**Closure Report**  
**Lariat (10.31.2023)**  
**Incident ID: NAPP2330435418**  
**Lea County, New Mexico**  
**Unit A Sec 28 T19S R33E**  
**32.626842°, -103.667343°**

**Point of Release: Natural gas vented at a gas compressor**

**Release Date: 10.31.2023**

**Volume Released: No contaminants reportedly released onto the ground**

**Volume Recovered: No contaminants reportedly released onto the ground**

CARMONA RESOURCES



**Prepared for:**  
**Delek Logistics Company**  
**305 N. Washington**  
**El Dorado, Arkansas 71730**

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



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June 11, 2025

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

**Re: Closure Report**  
**Lariat (10.31.2023)**  
**Delek Logistics Companies**  
**Site Location: Unit A, S28, T19S, R33E**  
**(Lat 32.626842°, Long -103.667343°)**  
**Lea County, New Mexico**

To whom it may concern:

On behalf of Delek Logistics Companies (Delek, formerly 3Bear Energy, LLC), Carmona Resources, LLC has prepared this letter to document site assessment activities for the Lariat. The site is located at 32.626842°, -103.667343° within Unit A, S28, T19S, R33E, in Lea County, New Mexico (Figures 1 and 2).

### **1.0 Site Information and Background**

Based on the Notice of Release obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on October 31, 2023, caused by natural gas being vented on two separate compressors. It was reported that no contaminants were released onto the ground. The Notice of Release 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 water well is approximately 1.70 miles Southwest of the site in S32, T19S, R33E and was drilled in 1970. The well has a reported depth to groundwater of 185 feet below the ground surface (ft bgs). A copy of the associated well log is attached in Appendix D.

### **3.0 NMAC Regulatory Criteria**

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

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

### **4.0 Site Assessment Activities**

On May 28, 2025, Carmona Resources performed site assessment activities to verify that no fluid was lost during the incident and that the ground remained unaffected. Before collecting horizontal samples, the NMOCD division office was notified via NMOCD portal on May 22, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C. To assess the horizontal extent, seven (7) horizontal sample points (H-1 through H-7) were advanced to depths ranging from the surface to 0.5' bgs surrounding the compressors which vented. 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 Eurofins Laboratories in Midland, Texas. 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 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. See Figure 3 for the sample locations.

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



### **5.0 Conclusion and Variances**

Based on the assessment results and the analytical data, no further actions are required at the site. Delek formally requests the closure of the spill. Delek requests a variance to 19.15.29.12.D.1 NMAC for the use of the collection of grab samples instead of five-point composite samples. Delek is requesting this incident to be closed for all aspects of 19.15.29.12 & 13. The entire area will be reclaimed and revegetated during normal P/A activities per NMAC 19.15.29.13. If you have any questions regarding this report or need additional information, please contact us at 432-813-8988.

Sincerely,

**Carmona Resources, LLC**

Ashton Thielke  
Environmental Manager

Gilbert Priego Jr.  
Project Manager

## FIGURES

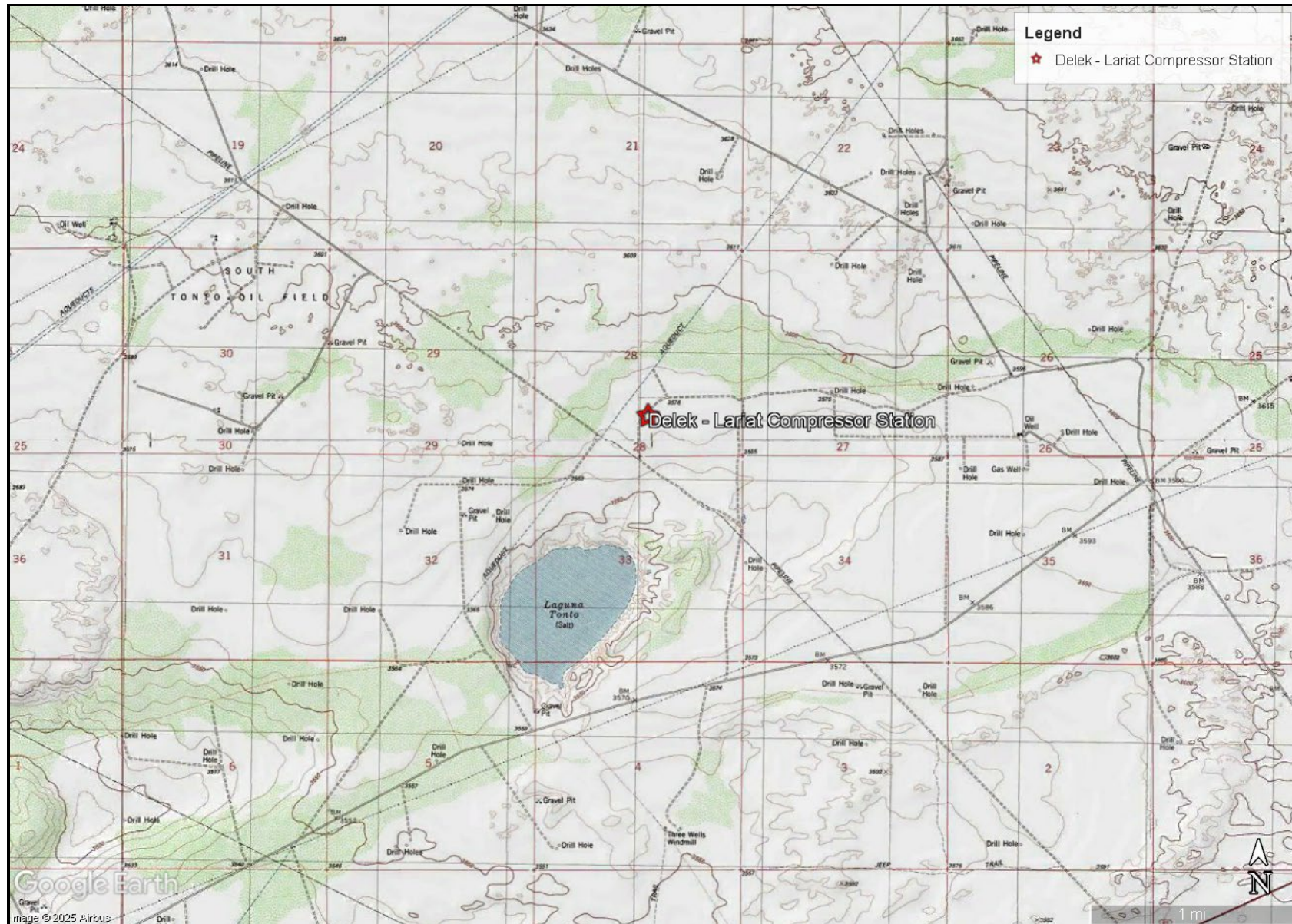
CARMONA RESOURCES











CARMONA RESOURCES



FIGURE 2







## APPENDIX A

CARMONA RESOURCES



**Table 1**  
**Delek**  
**Lariat (10.31.2023)**  
**Lea County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
H-1	5/28/2025	0.5'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	132
H-2	5/28/2025	0.5'	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	133
H-3	5/28/2025	0.5'	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	151
H-4	5/28/2025	0.5'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	166
H-5	5/28/2025	0.5'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	200
H-6	5/28/2025	0.5'	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	373
H-7	5/28/2025	0.5'	<49.6	<49.6	<49.6	<49.6	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	151
<b>Regulatory Criteria<sup>A</sup></b>							100 mg/kg	10 mg/kg			50 mg/kg	600 mg/kg

(-) Not Analyzed

<sup>A</sup> – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH - Total Petroleum Hydrocarbons

ft - feet

(H) Horizontal Sample

## APPENDIX B

CARMONA RESOURCES





# PHOTOGRAPHIC LOG

## Delek Logistics Companies

### Photograph No. 1

**Facility:** Lariat (10.31.2023)

**County:** Lea County, New Mexico

**Description:**

View East, area of H-1.



### Photograph No. 2

**Facility:** Lariat (10.31.2023)

**County:** Lea County, New Mexico

**Description:**

View Southwest, area of H-2.



### Photograph No. 3

**Facility:** Lariat (10.31.2023)

**County:** Lea County, New Mexico

**Description:**

View Northwest, area of H-3 & H-4.





# PHOTOGRAPHIC LOG

## Delek Logistics Companies

### Photograph No. 4

**Facility:** Lariat (10.31.2023)

**County:** Lea County, New Mexico

**Description:**

View North, area of H-5.



### Photograph No. 5

**Facility:** Lariat (10.31.2023)

**County:** Lea County, New Mexico

**Description:**

View North, area of H-6.



### Photograph No. 6

**Facility:** Lariat (10.31.2023)

**County:** Lea County, New Mexico

**Description:**

View East, area of H-7.



## APPENDIX C

CARMONA RESOURCES





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

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

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

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

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

QUESTIONS

Action 281311

QUESTIONS

Operator: DKL Energy - Cottonwood, LLC 7102 Commerce Way Brentwood, TN 37027	OGRID: 330291
	Action Number: 281311
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

<b>Location of Release Source</b> <i>Please answer all the questions in this group.</i>	
Site Name	Lariat
Date Release Discovered	10/31/2023
Surface Owner	Private

<b>Incident Details</b> <i>Please answer all the questions in this group.</i>	
Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
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

<b>Nature and Volume of Release</b> <i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Cause: Other   Gas Compressor Station   Natural Gas Vented   Released: 0 Mcf (Unknown Released Amount)   Recovered: 0 Mcf   Lost: 0 Mcf.
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)	Nothing released to the ground. Active investigation to determine losses

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 281311

**QUESTIONS (continued)**

Operator: DKL Energy - Cottonwood, LLC 7102 Commerce Way Brentwood, TN 37027	OGRID: 330291
	Action Number: 281311
	Action Type: [NOTIFY] Notification Of Release (NOR)

**QUESTIONS**

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>Yes, according to supplied volumes this appears to be a "gas only" report.</b>
Was this a major release as defined by 19.15.29.7(A) NMAC	<b>Yes, major release.</b>
Reasons why this would be considered a submission for a notification of a major release	<ul style="list-style-type: none"> <li>Incident Type is reported as fire</li> <li>This release resulted in a fire or was the result of a fire</li> <li>Unauthorized release an unknown volume (TBD) of gases exceeding 500 Mcf</li> </ul>
If YES, was immediate notice given to the OCD, by whom	Cassie Whitefield
If YES, was immediate notice given to the OCD, to whom	Mike Bratcher
If YES, was immediate notice given to the OCD, when	10/31/2023
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	NRC immediate notification; text to Mr Bratcher on 10/31 at 10:40
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	No product was released on to the ground. No containment used.
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 prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

ACKNOWLEDGMENTS  
  
Action 281311

ACKNOWLEDGMENTS

Operator:  DKL Energy - Cottonwood, LLC 7102 Commerce Way Brentwood, TN 37027	OGRID:  330291
	Action Number:  281311
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

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



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

CONDITIONS  
  
Action 281311

CONDITIONS

Operator: DKL Energy - Cottonwood, LLC 7102 Commerce Way Brentwood, TN 37027	OGRID: 330291
	Action Number: 281311
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
cassiewhitefield	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	10/31/2023

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 466439

**QUESTIONS**

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 466439
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2330435418
Incident Name	NAPP2330435418 LARIAT @ 0
Incident Type	Fire
Incident Status	Notification Accepted

<b>Location of Release Source</b>	
Site Name	Lariat
Date Release Discovered	10/31/2023
Surface Owner	Private

<b>Sampling Event General Information</b>	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	1,200
What is the estimated number of samples that will be gathered	7
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/28/2025
Time sampling will commence	10:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources – 432-813-8988
Please provide any information necessary for navigation to sampling site	(32.626623°, -103.667063°) Carmona Resources will be onsite to conduct a site assessment of this historical release to determine if remediation is required. Each vertical delineation sample point will represent an area no more than 1,000sqft. If our assessment results do not exceed remediation requirements, we will write a closure report and request a variance inside the report per 19.15.29.12.D.1 – use of assessment (grab) samples as confirmation samples. If contamination is found around the compressors, we will remediate to NMAC 19.15.29.12 standards.

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

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 466439

CONDITIONS

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 466439
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
cassiewhitefield	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.	5/22/2025

## APPENDIX D

CARMONA RESOURCES





**Nearest water well**

DKL Energy - Cottonwood, LLC

**Legend**

- 0.50 Mile Radius
- 1.70 Miles
- 2.44 Miles
- Lariat Compressor Station
- NMSEO Water Well
- USGS Water Well








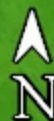
Low Karst

DKL Energy - Cottonwood, LLC

Legend

-  Lariat Compressor Station
-  Low

Lariat Compressor Station 





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 smallest to largest)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance (meters)	Well Depth (In feet)	Depth Water (In feet)	Water Column
<a href="#">L 07023</a>		L	LE	NE	SW	SW	32	19S	33E	622840.0	3609047.0 *		2736	262	185	77
<a href="#">CP 00653 POD1</a>		CP	LE		SE	SE	04	20S	33E	625573.0	3607367.0 *		3382	60		
<a href="#">CP 01865 POD2</a>		CP	LE	SW	NW	SW	02	20S	33E	627454.2	3607733.7		3841	105	0	105
<a href="#">CP 00658 POD1</a>		CP	LE	NE	NE	SE	26	19S	33E	628857.0	3611125.0 *		3862	100		
<a href="#">CP 00317</a>		CP	LE	SW	SE	SW	05	20S	33E	623054.0	3607235.0 *		3985	680	325	355

Average Depth to Water: 170 feet

Minimum Depth: 0 feet

Maximum Depth: 325 feet

Record Count: 5

UTM Filters (in meters):

Easting: 625017.42

Northing: 3610703.83

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.



Form WR-23

STATE ENGINEER OFFICE

SANTA FE

511929

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1


(A) Owner of well CACTUS DRILLING CORP.  
Street and Number BOX 2218  
City DALLAS, TEXAS State L-2023  
Well was drilled under Permit No. CP-4822(B) and is located in the  
NE 1/4 SW 1/4 SW 1/4 of Section 32 Twp. 19 Rge. 33  
(B) Drilling Contractor ABBOTT BROS. License No. WD-46  
Street and Number BOX 637  
City HOBBS, N.M. State  
Drilling was commenced NOV. 12, 1970 19  
Drilling was completed NOV. 15, 1970 19  
(Plat of 640 acres)  
Elevation at top of casing in feet above sea level Total depth of well 262  
State whether well is shallow or artesian shallow Depth to water upon completion 185

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	185	214	29	water sand
2				
3				
4				
5				

STATE ENGINEER OFFICE  
SAN ANTONIO, N.M.  
1970 DEC 16 AM 11:07

Section 3

RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
7	23	8	1	262	262	none	200	260

Section 4

RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5

PLUGGING RECORD

Name of Plugging Contractor License No.  
Street and Number City State  
Tons of Clay used Tons of Roughage used Type of roughage  
Plugging method used (Date) Plugged 19  
Plugging approved by: Cement Plugs were placed as follows:

Basin Supervisor

FOR USE OF STATE ENGINEER ONLY

Date Received

No.	Depth of Plug		No. of Sacks Used
	From	To	

File No.

Use

Location No.

19.33.32.33.22



# LOG OF WELL

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well.

## Well Driller



USGS Home  
Contact USGS  
Search USGS

# National Water Information System: Web Interface

USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
New Mexico

GO

Click to hideNews Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for New Mexico

Click to hide state-specific text

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

## Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 323737103373001

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

## USGS 323737103373001 19S.33E.26.42221

Lea County, New Mexico  
Latitude 32°37'51", Longitude 103°37'33" NAD27  
Land-surface elevation 3,608.00 feet above NGVD29  
The depth of the well is 100 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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
1968-03-14			D 62610		3517.52	NGVD29	1		Z
1968-03-14			D 62611		3519.08	NAVD88	1		Z
1968-03-14			D 72019	90.48			1		Z
1971-01-28			D 62610		3517.11	NGVD29	1		Z
1971-01-28			D 62611		3518.67	NAVD88	1		Z
1971-01-28			D 72019	90.89			1		Z
1976-12-15			D 62610		3517.14	NGVD29	1		Z
1976-12-15			D 62611		3518.70	NAVD88	1		Z
1976-12-15			D 72019	90.86			1		Z
1981-01-29			D 62610		3515.03	NGVD29	1		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	? Status	? Method of measurement	? Measuring agency
1981-01-29			D	62611	3516.59	NAVD88	1		Z
1981-01-29			D	72019	92.97		1		Z
1986-03-25			D	62610	3517.35	NGVD29	1		Z
1986-03-25			D	62611	3518.91	NAVD88	1		Z
1986-03-25			D	72019	90.65		1		Z
1991-05-23			D	62610	3519.88	NGVD29	1		Z
1991-05-23			D	62611	3521.44	NAVD88	1		Z
1991-05-23			D	72019	88.12		1		Z
1996-01-30			D	62610	3523.44	NGVD29	1		S
1996-01-30			D	62611	3525.00	NAVD88	1		S
1996-01-30			D	72019	84.56		1		S

Explanation

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

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**Title: Groundwater for New Mexico: Water Levels**

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

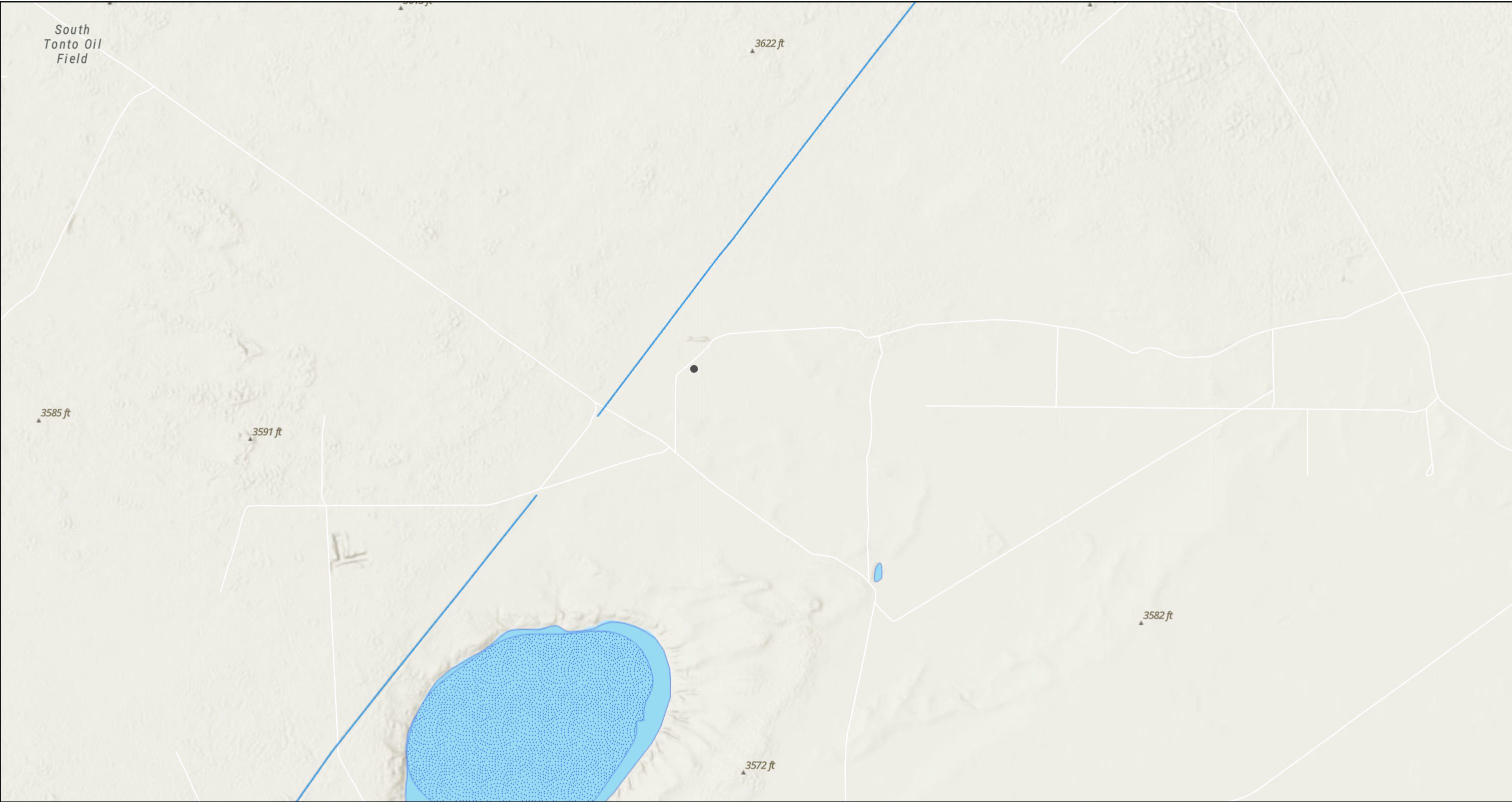


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2025-05-19 11:28:25 EDT

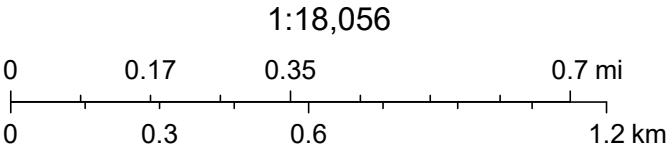
0.32   0.26 nadww01

# Lariat Compressor Station



5/19/2025, 10:46:43 AM

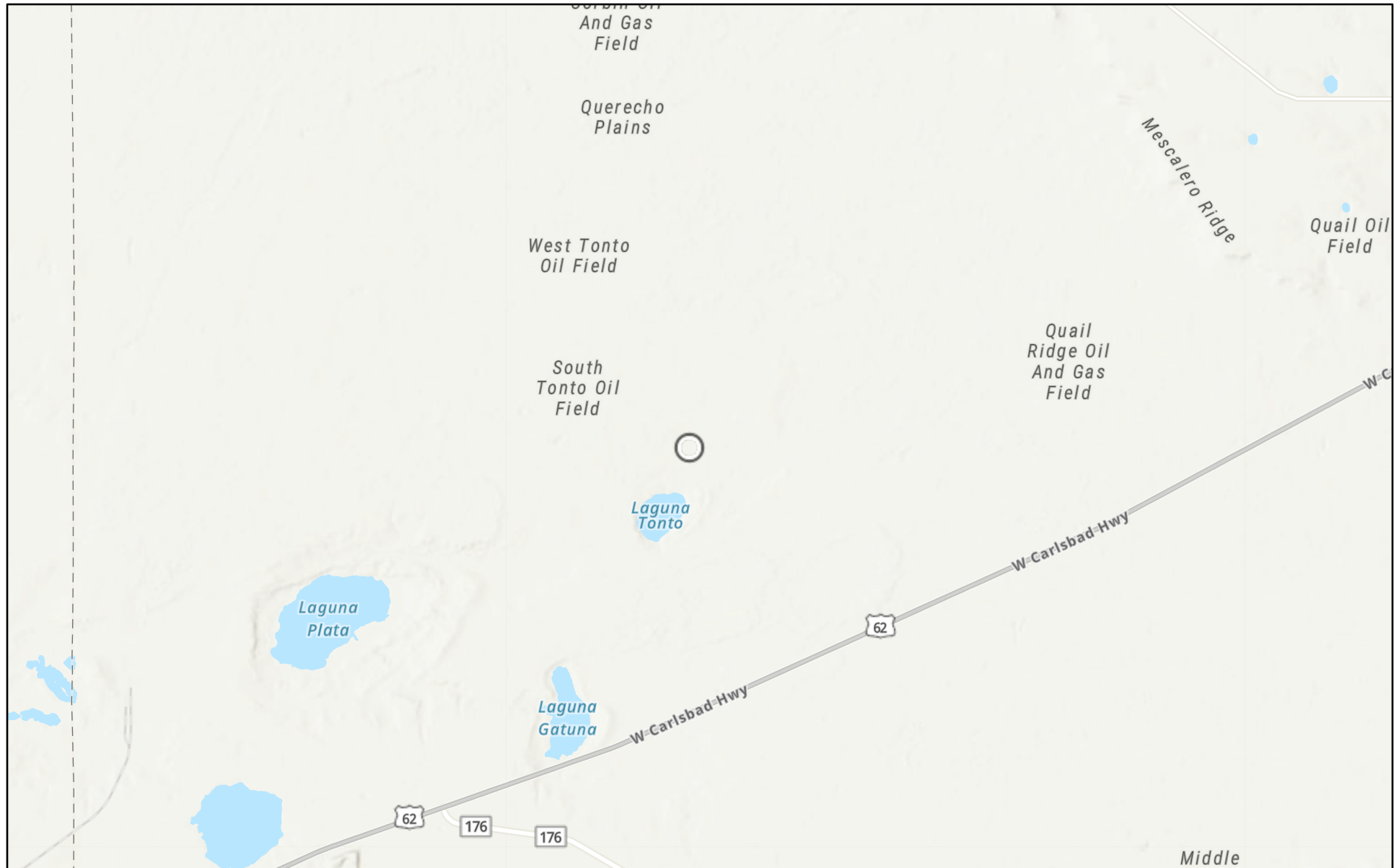
- OSW Water Bodys
- OSE Probable Playas
- OSE Streams



Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, NM OSE

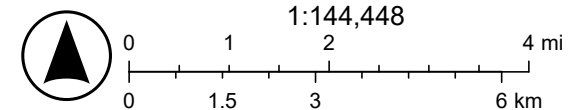


# Lariat Compressor Station



5/19/2025

World\_Hillshade



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## APPENDIX E

CARMONA RESOURCES





Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ashton Thielke  
Carmona Resources  
310 W Wall St  
Ste 500  
Midland, Texas 79701

Generated 5/30/2025 1:54:15 PM

## JOB DESCRIPTION

Lariat (10.31.2023)  
Lea County, NM

## JOB NUMBER

880-58714-1

Eurofins Midland  
1211 W. Florida Ave  
Midland TX 79701

# Eurofins Midland

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated  
5/30/2025 1:54:15 PM

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440



Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Laboratory Job ID: 880-58714-1  
SDG: Lea County, NM

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Definitions/Glossary

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

**Case Narrative**

Client: Carmona Resources  
Project: Lariat (10.31.2023)

Job ID: 880-58714-1

**Job ID: 880-58714-1****Eurofins Midland****Job Narrative  
880-58714-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

**Receipt**

The samples were received on 5/28/2025 3:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.5°C.

**GC VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**Diesel Range Organics**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111134 and analytical batch 880-111177 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

Client Sample ID: H-1 (0-0.5')

Lab Sample ID: 880-58714-1

Date Collected: 05/28/25 00:00

Matrix: Solid

Date Received: 05/28/25 15:50

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/29/25 12:16	05/29/25 18:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/29/25 12:16	05/29/25 18:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/29/25 12:16	05/29/25 18:46	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/29/25 12:16	05/29/25 18:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/29/25 12:16	05/29/25 18:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/29/25 12:16	05/29/25 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	05/29/25 12:16	05/29/25 18:46	1
1,4-Difluorobenzene (Surr)	91		70 - 130	05/29/25 12:16	05/29/25 18:46	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/29/25 18:46	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/29/25 23:09	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/29/25 11:09	05/29/25 23:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/29/25 11:09	05/29/25 23:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/29/25 11:09	05/29/25 23:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	05/29/25 11:09	05/29/25 23:09	1
o-Terphenyl (Surr)	101		70 - 130	05/29/25 11:09	05/29/25 23:09	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	132		9.96		mg/Kg			05/29/25 20:50	1

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-58714-2

Date Collected: 05/28/25 00:00

Matrix: Solid

Date Received: 05/28/25 15:50

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/29/25 12:16	05/29/25 19:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/29/25 12:16	05/29/25 19:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/29/25 12:16	05/29/25 19:07	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		05/29/25 12:16	05/29/25 19:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/29/25 12:16	05/29/25 19:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/29/25 12:16	05/29/25 19:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	05/29/25 12:16	05/29/25 19:07	1
1,4-Difluorobenzene (Surr)	105		70 - 130	05/29/25 12:16	05/29/25 19:07	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-58714-2

Date Collected: 05/28/25 00:00

Matrix: Solid

Date Received: 05/28/25 15:50

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/29/25 19:07	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/29/25 23:26	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/29/25 11:09	05/29/25 23:26	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/29/25 11:09	05/29/25 23:26	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/29/25 11:09	05/29/25 23:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130				05/29/25 11:09	05/29/25 23:26	1
o-Terphenyl (Surr)	101		70 - 130				05/29/25 11:09	05/29/25 23:26	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		9.92		mg/Kg			05/29/25 21:12	1

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-58714-3

Date Collected: 05/28/25 00:00

Matrix: Solid

Date Received: 05/28/25 15:50

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/29/25 12:16	05/29/25 19:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/29/25 12:16	05/29/25 19:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/29/25 12:16	05/29/25 19:27	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		05/29/25 12:16	05/29/25 19:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/29/25 12:16	05/29/25 19:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/29/25 12:16	05/29/25 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				05/29/25 12:16	05/29/25 19:27	1
1,4-Difluorobenzene (Surr)	105		70 - 130				05/29/25 12:16	05/29/25 19:27	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/29/25 19:27	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/29/25 23:41	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/29/25 11:09	05/29/25 23:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/29/25 11:09	05/29/25 23:41	1

Eurofins Midland



## Client Sample Results

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-58714-3

Date Collected: 05/28/25 00:00

Matrix: Solid

Date Received: 05/28/25 15:50

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/29/25 11:09	05/29/25 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130				05/29/25 11:09	05/29/25 23:41	1
o-Terphenyl (Surr)	99		70 - 130				05/29/25 11:09	05/29/25 23:41	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	151		10.1		mg/Kg			05/29/25 21:19	1

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-58714-4

Date Collected: 05/28/25 00:00

Matrix: Solid

Date Received: 05/28/25 15:50

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/29/25 12:16	05/29/25 19:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/29/25 12:16	05/29/25 19:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/29/25 12:16	05/29/25 19:48	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		05/29/25 12:16	05/29/25 19:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/29/25 12:16	05/29/25 19:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/29/25 12:16	05/29/25 19:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				05/29/25 12:16	05/29/25 19:48	1
1,4-Difluorobenzene (Surr)	103		70 - 130				05/29/25 12:16	05/29/25 19:48	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/29/25 19:48	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/29/25 23:57	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/29/25 11:09	05/29/25 23:57	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/29/25 11:09	05/29/25 23:57	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/29/25 11:09	05/29/25 23:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130				05/29/25 11:09	05/29/25 23:57	1
o-Terphenyl (Surr)	103		70 - 130				05/29/25 11:09	05/29/25 23:57	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		9.94		mg/Kg			05/29/25 21:26	1

Eurofins Midland

## Client Sample Results

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-58714-5

Date Collected: 05/28/25 00:00

Matrix: Solid

Date Received: 05/28/25 15:50

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/29/25 12:16	05/29/25 20:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/29/25 12:16	05/29/25 20:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/29/25 12:16	05/29/25 20:08	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		05/29/25 12:16	05/29/25 20:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/29/25 12:16	05/29/25 20:08	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/29/25 12:16	05/29/25 20:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	05/29/25 12:16	05/29/25 20:08	1
1,4-Difluorobenzene (Surr)	101		70 - 130	05/29/25 12:16	05/29/25 20:08	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/29/25 20:08	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/30/25 00:29	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/29/25 11:09	05/30/25 00:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/29/25 11:09	05/30/25 00:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/29/25 11:09	05/30/25 00:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130	05/29/25 11:09	05/30/25 00:29	1
o-Terphenyl (Surr)	97		70 - 130	05/29/25 11:09	05/30/25 00:29	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	200		9.92		mg/Kg			05/29/25 21:34	1

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-58714-6

Date Collected: 05/28/25 00:00

Matrix: Solid

Date Received: 05/28/25 15:50

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/29/25 12:16	05/29/25 20:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/29/25 12:16	05/29/25 20:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/29/25 12:16	05/29/25 20:29	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		05/29/25 12:16	05/29/25 20:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/29/25 12:16	05/29/25 20:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/29/25 12:16	05/29/25 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	05/29/25 12:16	05/29/25 20:29	1
1,4-Difluorobenzene (Surr)	106		70 - 130	05/29/25 12:16	05/29/25 20:29	1

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## Client Sample Results

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-58714-6

Date Collected: 05/28/25 00:00

Matrix: Solid

Date Received: 05/28/25 15:50

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/29/25 20:29	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/30/25 00:46	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/29/25 11:09	05/30/25 00:46	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/29/25 11:09	05/30/25 00:46	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/29/25 11:09	05/30/25 00:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130				05/29/25 11:09	05/30/25 00:46	1
o-Terphenyl (Surr)	102		70 - 130				05/29/25 11:09	05/30/25 00:46	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	373		9.96		mg/Kg			05/29/25 21:41	1

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-58714-7

Date Collected: 05/28/25 00:00

Matrix: Solid

Date Received: 05/28/25 15:50

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/29/25 12:16	05/29/25 20:49	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/29/25 12:16	05/29/25 20:49	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/29/25 12:16	05/29/25 20:49	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		05/29/25 12:16	05/29/25 20:49	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/29/25 12:16	05/29/25 20:49	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/29/25 12:16	05/29/25 20:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				05/29/25 12:16	05/29/25 20:49	1
1,4-Difluorobenzene (Surr)	97		70 - 130				05/29/25 12:16	05/29/25 20:49	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/29/25 20:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			05/30/25 01:02	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		05/29/25 11:09	05/30/25 01:02	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		05/29/25 11:09	05/30/25 01:02	1

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Client Sample Results

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

Client Sample ID: H-7 (0-0.5')  
Date Collected: 05/28/25 00:00  
Date Received: 05/28/25 15:50

Lab Sample ID: 880-58714-7  
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		05/29/25 11:09	05/30/25 01:02	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	107		70 - 130				05/29/25 11:09	05/30/25 01:02	1	
o-Terphenyl (Surr)	100		70 - 130				05/29/25 11:09	05/30/25 01:02	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	151		9.94		mg/Kg			05/29/25 21:48	1	

## Surrogate Summary

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1					
		(70-130)	(70-130)					
880-58714-1	H-1 (0-0.5')	95	91					
880-58714-1 MS	H-1 (0-0.5')	95	109					
880-58714-1 MSD	H-1 (0-0.5')	94	105					
880-58714-2	H-2 (0-0.5')	87	105					
880-58714-3	H-3 (0-0.5')	88	105					
880-58714-4	H-4 (0-0.5')	95	103					
880-58714-5	H-5 (0-0.5')	89	101					
880-58714-6	H-6 (0-0.5')	91	106					
880-58714-7	H-7 (0-0.5')	89	97					
LCS 880-111174/1-A	Lab Control Sample	94	108					
LCSD 880-111174/2-A	Lab Control Sample Dup	96	103					
MB 880-111174/5-A	Method Blank	105	81					

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1					
		(70-130)	(70-130)					
880-58710-A-3-E MS	Matrix Spike	104	102					
880-58710-A-3-F MSD	Matrix Spike Duplicate	102	100					
880-58714-1	H-1 (0-0.5')	107	101					
880-58714-2	H-2 (0-0.5')	109	101					
880-58714-3	H-3 (0-0.5')	107	99					
880-58714-4	H-4 (0-0.5')	109	103					
880-58714-5	H-5 (0-0.5')	105	97					
880-58714-6	H-6 (0-0.5')	111	102					
880-58714-7	H-7 (0-0.5')	107	100					
LCS 880-111113/2-A	Lab Control Sample	112	109					
LCSD 880-111113/3-A	Lab Control Sample Dup	113	111					
MB 880-111113/1-A	Method Blank	115	101					

## Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)



## QC Sample Results

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-111174/5-A

Matrix: Solid

Analysis Batch: 111180

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 111174

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/29/25 12:16	05/29/25 18:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/29/25 12:16	05/29/25 18:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/29/25 12:16	05/29/25 18:25	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/29/25 12:16	05/29/25 18:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/29/25 12:16	05/29/25 18:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/29/25 12:16	05/29/25 18:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	05/29/25 12:16	05/29/25 18:25	1
1,4-Difluorobenzene (Surr)	81		70 - 130	05/29/25 12:16	05/29/25 18:25	1

Lab Sample ID: LCS 880-111174/1-A

Matrix: Solid

Analysis Batch: 111180

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1211		mg/Kg		121	70 - 130
Toluene	0.100	0.1012		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1038		mg/Kg		104	70 - 130
m,p-Xylenes	0.200	0.2155		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1067		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-111174/2-A

Matrix: Solid

Analysis Batch: 111180

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 111174

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1177		mg/Kg		118	70 - 130	3	35
Toluene	0.100	0.1041		mg/Kg		104	70 - 130	3	35
Ethylbenzene	0.100	0.1076		mg/Kg		108	70 - 130	4	35
m,p-Xylenes	0.200	0.2238		mg/Kg		112	70 - 130	4	35
o-Xylene	0.100	0.1108		mg/Kg		111	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-58714-1 MS

Matrix: Solid

Analysis Batch: 111180

Client Sample ID: H-1 (0-0.5')

Prep Type: Total/NA

Prep Batch: 111174

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1061		mg/Kg		106	70 - 130
Toluene	<0.00200	U	0.100	0.08341		mg/Kg		83	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-58714-1 MS

Matrix: Solid

Analysis Batch: 111180

Client Sample ID: H-1 (0-0.5')

Prep Type: Total/NA

Prep Batch: 111174

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.07943		mg/Kg		79	70 - 130
m,p-Xylenes	<0.00400	U	0.200	0.1647		mg/Kg		82	70 - 130
o-Xylene	<0.00200	U	0.100	0.07986		mg/Kg		80	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	95		70 - 130						
1,4-Difluorobenzene (Surr)	109		70 - 130						

Lab Sample ID: 880-58714-1 MSD

Matrix: Solid

Analysis Batch: 111180

Client Sample ID: H-1 (0-0.5')

Prep Type: Total/NA

Prep Batch: 111174

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1031		mg/Kg		103	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.08448		mg/Kg		84	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.07973		mg/Kg		80	70 - 130	0	35
m,p-Xylenes	<0.00400	U	0.200	0.1661		mg/Kg		83	70 - 130	1	35
o-Xylene	<0.00200	U	0.100	0.08069		mg/Kg		81	70 - 130	1	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	94		70 - 130								
1,4-Difluorobenzene (Surr)	105		70 - 130								

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-111113/1-A

Matrix: Solid

Analysis Batch: 111136

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 111113

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/29/25 11:09	05/29/25 20:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/29/25 11:09	05/29/25 20:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/29/25 11:09	05/29/25 20:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane (Surr)	115		70 - 130						
o-Terphenyl (Surr)	101		70 - 130						

Lab Sample ID: LCS 880-111113/2-A

Matrix: Solid

Analysis Batch: 111136

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1104		mg/Kg		110	70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-111113/2-A

Matrix: Solid

Analysis Batch: 111136

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111113

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	112		70 - 130
o-Terphenyl (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-111113/3-A

Matrix: Solid

Analysis Batch: 111136

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 111113

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1070		mg/Kg		107	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1103		mg/Kg		110	70 - 130	0	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	113		70 - 130
o-Terphenyl (Surr)	111		70 - 130

Lab Sample ID: 880-58710-A-3-E MS

Matrix: Solid

Analysis Batch: 111136

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 111113

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	922.5		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	897.7		mg/Kg		90	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	102		70 - 130

Lab Sample ID: 880-58710-A-3-F MSD

Matrix: Solid

Analysis Batch: 111136

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 111113

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	906.2		mg/Kg		91	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	995	893.2		mg/Kg		90	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	102		70 - 130
o-Terphenyl (Surr)	100		70 - 130

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## QC Sample Results

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-111134/1-A  
Matrix: Solid  
Analysis Batch: 111177

Client Sample ID: Method Blank  
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/29/25 18:16	1

Lab Sample ID: LCS 880-111134/2-A  
Matrix: Solid  
Analysis Batch: 111177

Client Sample ID: Lab Control Sample  
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	271.7		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-111134/3-A  
Matrix: Solid  
Analysis Batch: 111177

Client Sample ID: Lab Control Sample Dup  
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	275.0		mg/Kg		110	90 - 110	1	20

Lab Sample ID: 880-58713-A-3-C MS  
Matrix: Solid  
Analysis Batch: 111177

Client Sample ID: Matrix Spike  
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	82.4	F1	253	371.5	F1	mg/Kg		114	90 - 110

Lab Sample ID: 880-58713-A-3-D MSD  
Matrix: Solid  
Analysis Batch: 111177

Client Sample ID: Matrix Spike Duplicate  
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	82.4	F1	253	374.4	F1	mg/Kg		116	90 - 110	1	20

## QC Association Summary

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

## GC VOA

## Prep Batch: 111174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58714-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-58714-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-58714-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-58714-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-58714-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-58714-6	H-6 (0-0.5')	Total/NA	Solid	5035	
880-58714-7	H-7 (0-0.5')	Total/NA	Solid	5035	
MB 880-111174/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-111174/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-111174/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-58714-1 MS	H-1 (0-0.5')	Total/NA	Solid	5035	
880-58714-1 MSD	H-1 (0-0.5')	Total/NA	Solid	5035	

## Analysis Batch: 111180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58714-1	H-1 (0-0.5')	Total/NA	Solid	8021B	111174
880-58714-2	H-2 (0-0.5')	Total/NA	Solid	8021B	111174
880-58714-3	H-3 (0-0.5')	Total/NA	Solid	8021B	111174
880-58714-4	H-4 (0-0.5')	Total/NA	Solid	8021B	111174
880-58714-5	H-5 (0-0.5')	Total/NA	Solid	8021B	111174
880-58714-6	H-6 (0-0.5')	Total/NA	Solid	8021B	111174
880-58714-7	H-7 (0-0.5')	Total/NA	Solid	8021B	111174
MB 880-111174/5-A	Method Blank	Total/NA	Solid	8021B	111174
LCS 880-111174/1-A	Lab Control Sample	Total/NA	Solid	8021B	111174
LCSD 880-111174/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111174
880-58714-1 MS	H-1 (0-0.5')	Total/NA	Solid	8021B	111174
880-58714-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8021B	111174

## Analysis Batch: 111259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58714-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-58714-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-58714-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-58714-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-58714-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-58714-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	
880-58714-7	H-7 (0-0.5')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 111113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58714-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-58714-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-58714-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-58714-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-58714-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-58714-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-58714-7	H-7 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-111113/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111113/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Eurofins Midland



## QC Association Summary

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

## GC Semi VOA (Continued)

## Prep Batch: 111113 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-111113/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-58710-A-3-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-58710-A-3-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 111136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58714-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	111113
880-58714-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	111113
880-58714-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	111113
880-58714-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	111113
880-58714-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	111113
880-58714-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	111113
880-58714-7	H-7 (0-0.5')	Total/NA	Solid	8015B NM	111113
MB 880-111113/1-A	Method Blank	Total/NA	Solid	8015B NM	111113
LCS 880-111113/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111113
LCSD 880-111113/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111113
880-58710-A-3-E MS	Matrix Spike	Total/NA	Solid	8015B NM	111113
880-58710-A-3-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	111113

## Analysis Batch: 111227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58714-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-58714-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-58714-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-58714-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-58714-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-58714-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	
880-58714-7	H-7 (0-0.5')	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 111134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58714-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-58714-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-58714-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-58714-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-58714-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-58714-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
880-58714-7	H-7 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-111134/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111134/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-111134/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-58713-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-58713-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 111177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58714-1	H-1 (0-0.5')	Soluble	Solid	300.0	111134
880-58714-2	H-2 (0-0.5')	Soluble	Solid	300.0	111134
880-58714-3	H-3 (0-0.5')	Soluble	Solid	300.0	111134

Eurofins Midland

QC Association Summary

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

HPLC/IC (Continued)

Analysis Batch: 111177 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58714-4	H-4 (0-0.5')	Soluble	Solid	300.0	111134
880-58714-5	H-5 (0-0.5')	Soluble	Solid	300.0	111134
880-58714-6	H-6 (0-0.5')	Soluble	Solid	300.0	111134
880-58714-7	H-7 (0-0.5')	Soluble	Solid	300.0	111134
MB 880-111134/1-A	Method Blank	Soluble	Solid	300.0	111134
LCS 880-111134/2-A	Lab Control Sample	Soluble	Solid	300.0	111134
LCSD 880-111134/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111134
880-58713-A-3-C MS	Matrix Spike	Soluble	Solid	300.0	111134
880-58713-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	111134

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

**Client Sample ID: H-1 (0-0.5')****Lab Sample ID: 880-58714-1****Date Collected: 05/28/25 00:00****Matrix: Solid****Date Received: 05/28/25 15:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	111174	05/29/25 12:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111180	05/29/25 18:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111259	05/29/25 18:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			111227	05/29/25 23:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	111113	05/29/25 11:09	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111136	05/29/25 23:09	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	111134	05/29/25 11:46	SA	EET MID
Soluble	Analysis	300.0		1			111177	05/29/25 20:50	CH	EET MID

**Client Sample ID: H-2 (0-0.5')****Lab Sample ID: 880-58714-2****Date Collected: 05/28/25 00:00****Matrix: Solid****Date Received: 05/28/25 15:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	111174	05/29/25 12:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111180	05/29/25 19:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111259	05/29/25 19:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			111227	05/29/25 23:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	111113	05/29/25 11:09	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111136	05/29/25 23:26	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	111134	05/29/25 11:46	SA	EET MID
Soluble	Analysis	300.0		1			111177	05/29/25 21:12	CH	EET MID

**Client Sample ID: H-3 (0-0.5')****Lab Sample ID: 880-58714-3****Date Collected: 05/28/25 00:00****Matrix: Solid****Date Received: 05/28/25 15:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	111174	05/29/25 12:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111180	05/29/25 19:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111259	05/29/25 19:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			111227	05/29/25 23:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	111113	05/29/25 11:09	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111136	05/29/25 23:41	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	111134	05/29/25 11:46	SA	EET MID
Soluble	Analysis	300.0		1			111177	05/29/25 21:19	CH	EET MID

**Client Sample ID: H-4 (0-0.5')****Lab Sample ID: 880-58714-4****Date Collected: 05/28/25 00:00****Matrix: Solid****Date Received: 05/28/25 15:50**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	111174	05/29/25 12:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111180	05/29/25 19:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111259	05/29/25 19:48	SM	EET MID

Eurofins Midland

## Lab Chronicle

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-58714-4

Date Collected: 05/28/25 00:00

Matrix: Solid

Date Received: 05/28/25 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			111227	05/29/25 23:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	111113	05/29/25 11:09	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111136	05/29/25 23:57	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	111134	05/29/25 11:46	SA	EET MID
Soluble	Analysis	300.0		1			111177	05/29/25 21:26	CH	EET MID

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-58714-5

Date Collected: 05/28/25 00:00

Matrix: Solid

Date Received: 05/28/25 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	111174	05/29/25 12:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111180	05/29/25 20:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111259	05/29/25 20:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			111227	05/30/25 00:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	111113	05/29/25 11:09	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111136	05/30/25 00:29	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	111134	05/29/25 11:46	SA	EET MID
Soluble	Analysis	300.0		1			111177	05/29/25 21:34	CH	EET MID

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-58714-6

Date Collected: 05/28/25 00:00

Matrix: Solid

Date Received: 05/28/25 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	111174	05/29/25 12:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111180	05/29/25 20:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111259	05/29/25 20:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			111227	05/30/25 00:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	111113	05/29/25 11:09	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111136	05/30/25 00:46	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	111134	05/29/25 11:46	SA	EET MID
Soluble	Analysis	300.0		1			111177	05/29/25 21:41	CH	EET MID

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-58714-7

Date Collected: 05/28/25 00:00

Matrix: Solid

Date Received: 05/28/25 15:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	111174	05/29/25 12:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111180	05/29/25 20:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111259	05/29/25 20:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			111227	05/30/25 01:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	111113	05/29/25 11:09	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111136	05/30/25 01:02	TKC	EET MID

Eurofins Midland



Lab Chronicle

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

Client Sample ID: H-7 (0-0.5')  
Date Collected: 05/28/25 00:00  
Date Received: 05/28/25 15:50

Lab Sample ID: 880-58714-7  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	111134	05/29/25 11:46	SA	EET MID
Soluble	Analysis	300.0		1			111177	05/29/25 21:48	CH	EET MID

Laboratory References:  
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

**Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources  
Project/Site: Lariat (10.31.2023)

Job ID: 880-58714-1  
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-58714-1	H-1 (0-0.5')	Solid	05/28/25 00:00	05/28/25 15:50
880-58714-2	H-2 (0-0.5')	Solid	05/28/25 00:00	05/28/25 15:50
880-58714-3	H-3 (0-0.5')	Solid	05/28/25 00:00	05/28/25 15:50
880-58714-4	H-4 (0-0.5')	Solid	05/28/25 00:00	05/28/25 15:50
880-58714-5	H-5 (0-0.5')	Solid	05/28/25 00:00	05/28/25 15:50
880-58714-6	H-6 (0-0.5')	Solid	05/28/25 00:00	05/28/25 15:50
880-58714-7	H-7 (0-0.5')	Solid	05/28/25 00:00	05/28/25 15:50

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# Chain of Custody



Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 West Wall Ste. 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-8988	Email:	thielkea@carmonaresources.com

<b>Work Order Comments</b>	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/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:		Lariat (10.31.2023)		Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes								
Project Number:		2542		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush																			None: NO DI Water: H <sub>2</sub> O								
Project Location		Lea County, NM		Due Date:			Normal																		Cool: Cool MeOH: Me						
Sampler's Name:		JDC																					HCL: HC HNO <sub>3</sub> : HN								
PO #:																							H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na								
<b>SAMPLE RECEIPT</b>		Temp Blank:		Yes No		Wet Ice:		Yes No		Parameters		BTEX 8021B TPH 8015M (GRO + DRO + MRO) Chloride 300.0																HOLD		H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
Received Intact:		Yes No		Thermometer ID:		IR8																									
Cooler Custody Seals:		Yes No N/A		Correction Factor:		4.6																									
Sample Custody Seals:		Yes No N/A		Temperature Reading:		4.6																									
Total Containers:				Corrected Temperature:		4.6																									
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont																		Sample Comments	
H-1 (0-0.5')		5/28/2025				X				G		1		X X X																	
H-2 (0-0.5')		5/28/2025				X				G		1		X X X																	
H-3 (0-0.5')		5/28/2025				X				G		1		X X X																	
H-4 (0-0.5')		5/28/2025				X				G		1		X X X																	
H-5 (0-0.5')		5/28/2025				X				G		1		X X X																	
H-6 (0-0.5')		5/28/2025				X				G		1		X X X																	
H-7 (0-0.5')		5/28/2025				X				G		1		X X X																	

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

Relinquished by: (Signature)		Received by: (Signature)		Date/Time		Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1 [Signature]		[Signature]		5/28/25 1550		2					
3						4					
5						6					

## Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-58714-1  
SDG Number: Lea County, NM

Login Number: 58714

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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**Santa Fe, NM 87505**

QUESTIONS

Action 472999

**QUESTIONS**

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 472999
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2330435418
Incident Name	NAPP2330435418 LARIAT @ 0
Incident Type	Fire
Incident Status	Re-vegetation Report Received

**Location of Release Source**

Please answer all the questions in this group.

Site Name	Lariat
Date Release Discovered	10/31/2023
Surface Owner	Private

**Incident Details**

Please answer all the questions in this group.

Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
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	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause:    Other (Specify)   Released: 0 (Unknown Released Amount)   Recovered: 0   Lost: 0
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Nothing released to the ground. Active investigation to determine losses

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QUESTIONS, Page 2

Action 472999

**QUESTIONS (continued)**

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 472999
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>More info needed to determine if this will be treated as a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>Yes</b>
Reasons why this would be considered a submission for a notification of a major release	<b>From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.</b>
<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	<b>True</b>
The impacted area has been secured to protect human health and the environment	<b>True</b>
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	<b>True</b>
All free liquids and recoverable materials have been removed and managed appropriately	<b>True</b>
If all the actions described above have not been undertaken, explain why	<b>No product was released on to the ground. No containment used.</b>

*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: Cassie Whitefield Email: <a href="mailto:cassie.whitefield@deleklogistics.com">cassie.whitefield@deleklogistics.com</a> Date: 06/11/2025
--	--



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QUESTIONS, Page 3

Action 472999

**QUESTIONS (continued)**

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 472999
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

**QUESTIONS**

<b>Site Characterization</b>	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (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 ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	373
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	10/31/2023
On what date will (or did) the final sampling or liner inspection occur	05/28/2025
On what date will (or was) the remediation complete(d)	05/28/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
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	0
What is the estimated volume (in cubic yards) that will be remediated	0
<i>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.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 472999

**QUESTIONS (continued)**

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 472999
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	<i>Not answered.</i>
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<b>Yes</b>
Other Non-listed Remedial Process. Please specify	<b>No remediation, no natural gas or fluids reported to hit the ground. Sampling event around the compressors confirmed no impact to the ground.</b>
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	<b>Name: Cassie Whitefield</b> <b>Email: <a href="mailto:cassie.whitefield@deleklogistics.com">cassie.whitefield@deleklogistics.com</a></b> <b>Date: 06/11/2025</b>
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 472999

QUESTIONS (continued)

Operator:  DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID:  330291
	Action Number:  472999
	Action Type:  [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

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 472999

**QUESTIONS (continued)**

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 472999
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	466439
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/28/2025
What was the (estimated) number of samples that were to be gathered	7
What was the sampling surface area in square feet	1200

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	No remediation, no natural gas or fluids reported to hit the ground. Sampling event around the compressors confirmed no impact to the ground.
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Cassie Whitefield Email: <a href="mailto:cassie.whitefield@deleklogistics.com">cassie.whitefield@deleklogistics.com</a> Date: 06/11/2025



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QUESTIONS, Page 7

Action 472999

**QUESTIONS (continued)**

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 472999
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

**QUESTIONS**

<b>Reclamation Report</b>	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	0
What was the total volume of replacement material (in cubic yards) for this site	0
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseedling commence(d)	05/28/2025
Summarize any additional reclamation activities not included by answers (above)	No remediation, no natural gas or fluids reported to hit the ground. Sampling event around the compressors confirmed no impact to the ground. Since there was no impact or remediation to the well pad from this natural gas release, Delek is requesting this incident to be closed for all aspects of 19.15.29.12 & 13. The entire area will be reclaimed and revegetated during normal P/A activities per NMAC 19.15.29.13. See section 5.0 of text.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseedling plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Cassie Whitefield Email: <a href="mailto:cassie.whitefield@deleklogistics.com">cassie.whitefield@deleklogistics.com</a> Date: 06/11/2025

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QUESTIONS, Page 8

Action 472999

**QUESTIONS (continued)**

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 472999
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

**QUESTIONS**

<b>Revegetation Report</b>	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	Yes
What was the total revegetation surface area (in square feet) for this site	0
<i>Per Paragraph (2) of Subsection D of 19.15.29.13 NMAC the responsible party must reseed disturbed area in the first favorable growing season following closure of the site.</i>	
On what date did the reseeded commence	05/28/2025
On what date was the vegetative cover inspected	05/28/2025
What was the life form ratio compared to pre-disturbance levels	90
What was the total percent plant cover compared to pre-disturbance levels	90
Summarize any additional revegetation activities not included by answers (above)	No remediation, no natural gas or fluids reported to hit the ground. Sampling event around the compressors confirmed no impact to the ground. Since there was no impact or remediation to the well pad from this natural gas release, Delek is requesting this incident to be closed for all aspects of 19.15.29.12 & 13. The entire area will be reclaimed and revegetated during normal P/A activities per NMAC 19.15.29.13. See section 5.0 of text.
<i>The responsible party must attach information demonstrating they have complied with all applicable re-vegetation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any life form ratio and percent plant cover sampling diagrams or other relevant field notes, photographs of re-vegetated areas, and a narrative of the re-vegetation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Cassie Whitefield Email: <a href="mailto:cassie.whitefield@deleklogistics.com">cassie.whitefield@deleklogistics.com</a> Date: 06/11/2025
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 472999

CONDITIONS

Operator: DKL Energy - Cottonwood, LLC 5850 Granite Parkway #450 Plano, TX 75024	OGRID: 330291
	Action Number: 472999
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

CONDITIONS

Created By	Condition	Condition Date
nvez	Remediation closure, reclamation, and re-vegetation report approved, release resolved.	6/12/2025