

CARMONA RESOURCES



## SITE INFORMATION

---

**Work Plan**  
**Horse 29 State #1H**  
**Lea County, New Mexico**  
**Incident ID: NAPP2228545175**  
**Unit D Sec 29 T25S R34E**  
**32.108063°, -103.506677°**

**Produced Water Release**  
**Point of Release: Produced Water Line**  
**Release Date: 07/09/2022**  
**Volume Released: >5 barrels of Produced Water**  
**Volume Recovered: 0 barrels of Produced Water**

CARMONA RESOURCES



**Prepared for:**  
**EOG Resources, Inc**  
**5509 Champions Dr.**  
**Midland, TX 79706**

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

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

## TABLE OF CONTENTS

---

### 1.0 SITE INFORMATION AND BACKGROUND

### 2.0 SITE CHARACTERIZATION AND GROUNDWATER

### 3.0 NMAC REGULATORY CRITERIA

### 4.0 SITE ASSESSMENT ACTIVITIES

### 5.0 PROPOSED WORK PLAN

### 6.0 CONCLUSIONS

### FIGURES

FIGURE 1      OVERVIEW      FIGURE 2      TOPOGRAPHIC

FIGURE 3      SAMPLE LOCATION      FIGURE 4      PROPOSED EXCAVATION

### APPENDICES

APPENDIX A      TABLE

APPENDIX B      PHOTOS

APPENDIX C      INITIAL C-141 AND REMEDIATION PLAN

APPENDIX D      SITE CHARACTERIZATION AND GROUNDWATER

APPENDIX E      LABORATORY REPORTS



October 14, 2022

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

**Re: Work Plan  
Horse 29 State #1H  
EOG Resources, Inc  
Incident # NAPP 2228545175  
Site Location: Unit B, S30, T25S, R34E  
(Lat 32.108063°, Long -103.506677°)  
Lea County, New Mexico**

To whom it may concern:

On behalf of EOG Resources, Inc (EOG), Carmona Resources, LLC has prepared this letter to document site activities for the Horse 29 State #1H. The site is located at 32.108063, -103.506677 within Unit B, S30, T25S, R34E, in Lea County, New Mexico (Figures 1 and 2).

### **1.0 Site information and Background**

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on July 9, 2022, from a pinhole in a flowline. The release was originally internally reported as three (3) barrels; after assessment, the release was approximated to be greater than five (5) barrels. There were zero (0) barrels recovered. Refer to Figure 3. The initial C-141 form is attached in Appendix C.

### **2.0 Site Characterization and Groundwater**

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is no known water sources within a 0.50-mile radius of the location. The nearest identified well is located approximately 1.12 miles Southeast of the site in S29, T25S, R34E and was drilled in 1880. The well has a reported depth to groundwater of 50' below ground surface (ft bgs). The other well is 1.14 miles Southeast of the site and has a reported depth to groundwater of 128' bgs and drilled in 1991. A copy of the associated Point of Diversion Summary report is attached in Appendix D.

On December 29, 2020, Scarborough Drilling, Inc was onsite to drill a groundwater determination bore to 55' below ground surface and within a 0.50-mile radius of the location. The bore was left open for 72 hours and tagged with a water level meter. No water was detected at 55' below the surface. The coordinates for the groundwater determination bore are 32.102785, -103.502190. See Appendix D for the log.

### **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.

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



- TPH: 2,500 mg/kg (GRO + DRO + MRO).
- TPH: 1,000 mg/kg (GRO + DRO + MRO).
- Chloride: 10,000 mg/kg.

#### **4.0 Site Assessment Activities**

##### **Initial Assessment**

On July 20, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. A total of two (2) sample points and four (4) horizontal samples were advanced to depths ranging from the surface to 5' bgs inside and surrounding the release area to evaluate the vertical and horizontal extent. See Figure 3 for the soil sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Vertical delineation was not achieved due to a dense geological formation.

##### **Trenching Activities**

On July 27, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. To assess the vertical extent, two (2) trenches were advanced to depths ranging from the surface to 11' bgs inside the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix D. See Table 1 for the analytical results.

Vertical delineation was not achieved due to mechanical limitations.

##### **Drilling Activities**

On August 10, 2022, Carmona Resources, LLC performed site assessment activities to evaluate soil impacts stemming from the release. Two (2) boreholes were advanced to depths ranging from the surface to 65.0' bgs inside the release area to assess the vertical extent. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 4500. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix D.

The results of the sampling are summarized in Table 1. See Figure 3 for the sample locations.

#### **5.0 Proposed Work Plan**

Based on the analytical data and the detected TPH and chloride concentrations, EOG proposes to remediate the areas shown in Figure 4 and highlighted (blue) in Table 1.

CARMONA RESOURCES



- The area of S-1 (Trench-1/Borehole-1) will be excavated to a depth of 25' below the surface. A liner will be installed and backfilled with clean material to grade. An engineering excavation plan will be completed prior to excavation activities.
- The area of S-2 (Trench-2/Borehole-2) will be excavated to a depth of 35' below the surface. A liner will be installed and backfilled with clean material to grade. An engineering excavation plan will be completed prior to excavation activities.
- An estimated 2,816 cubic yards will be removed and hauled to the nearest disposal based on the maximum depth.
- Once the site activities and excavation are complete, the areas will be backfilled with clean material to surface grade. The remediation will be implemented 90 days after the work plan is approved.
- Impacted soil around oil and gas equipment, structures, or lines may not be removed during remediation activities due to safety concerns for the onsite personnel. However, EOG Resources will excavate the impacted soils to the maximum extent possible.

## **6.0 Conclusions**

Upon completion, a final closure report describing the remediation activities will be presented to the New Mexico Oil Conservation Division (NMOCD). If you have any questions regarding this report or need additional information, don't hesitate to contact us at 432-813-1992.

Sincerely,

**Carmona Resources, LLC**

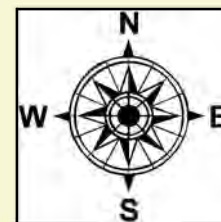
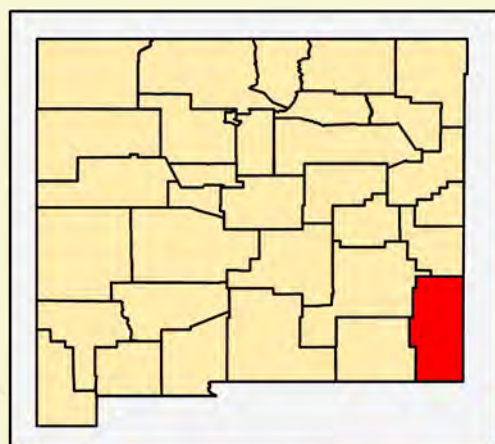
Mike Carmona  
Environmental Manager

Conner Moechring  
Sr. Project Manager

## FIGURES

CARMONA RESOURCES





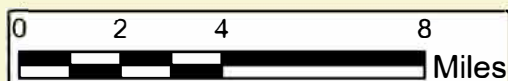
128

W NM Highway 128

Ochoa

W NM H

Orla Rd



## Legend

★ Site Location

### OVERVIEW MAP EOG RESOURCES

HORSE 29-1 FLOWLINE LEAK  
LEA COUNTY, NEW MEXICO  
32.108063, -103.506677

SCALE: As Shown

Date: 8/16/2022



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

### NOTES:

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

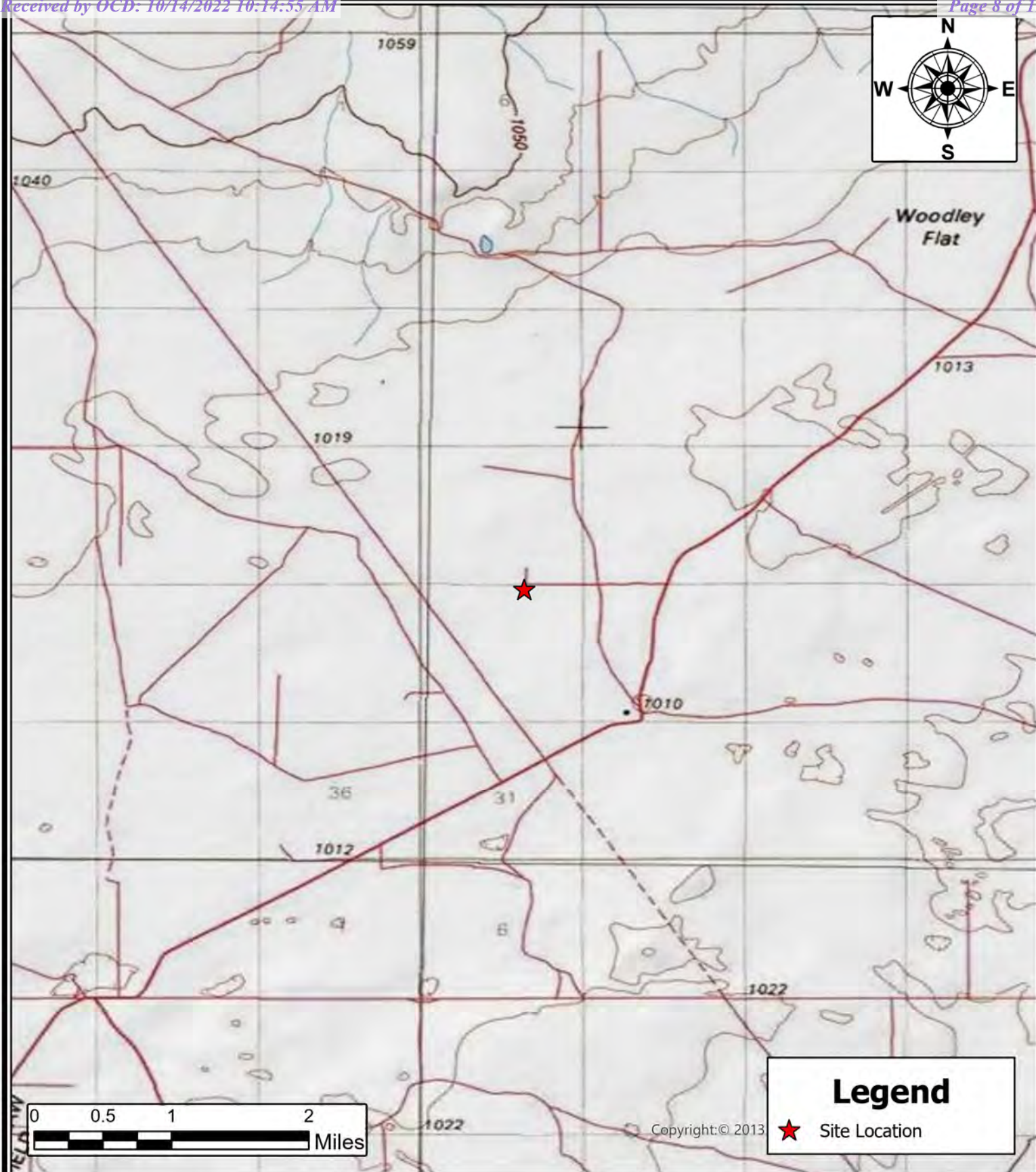
DRAWING NUMBER:

## FIGURE 1

SHEET NUMBER:

## 1 of 1





**TOPOGRAPHIC MAP  
EOG RESOURCES**  
HORSE 29-1 FLOWLINE LEAK  
LEA COUNTY, NEW MEXICO  
32.108063, -103.506677

SCALE: As Shown

Date: 8/16/2022



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

**NOTES:**

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

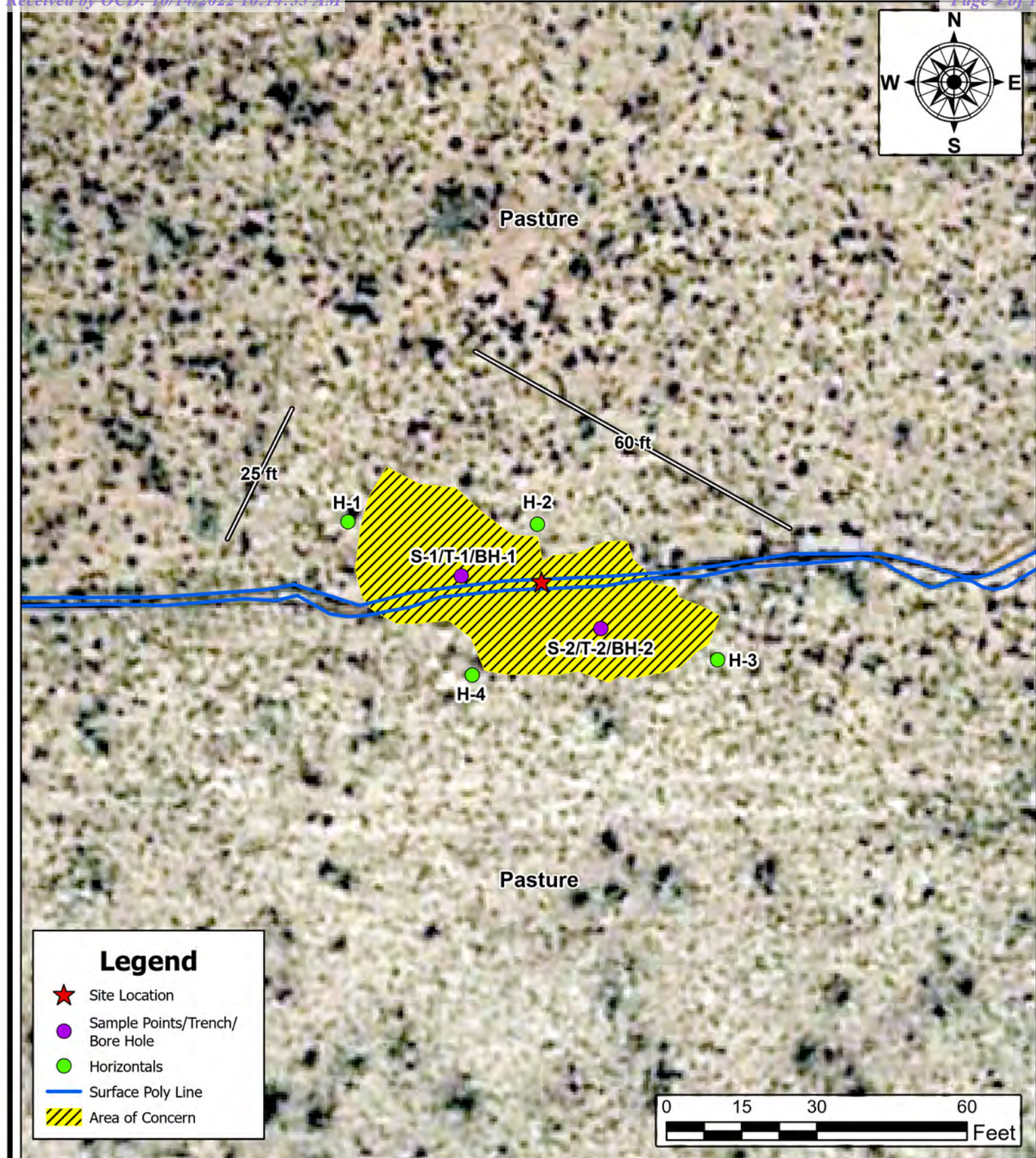
DRAWING NUMBER:

**FIGURE 2**

SHEET NUMBER:

**1 of 1**





### Legend

- ★ Site Location
- Sample Points/Trench/Bore Hole
- Horizontals
- Surface Poly Line
- Area of Concern

0 15 30 60  
Feet

**SAMPLE LOCATION MAP**  
**EOG RESOURCES**  
 HORSE 29-1 FLOWLINE LEAK  
 LEA COUNTY, NEW MEXICO  
 32.108063, -103.506677

SCALE: As Shown

Date: 8/16/2022



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

### NOTES:

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

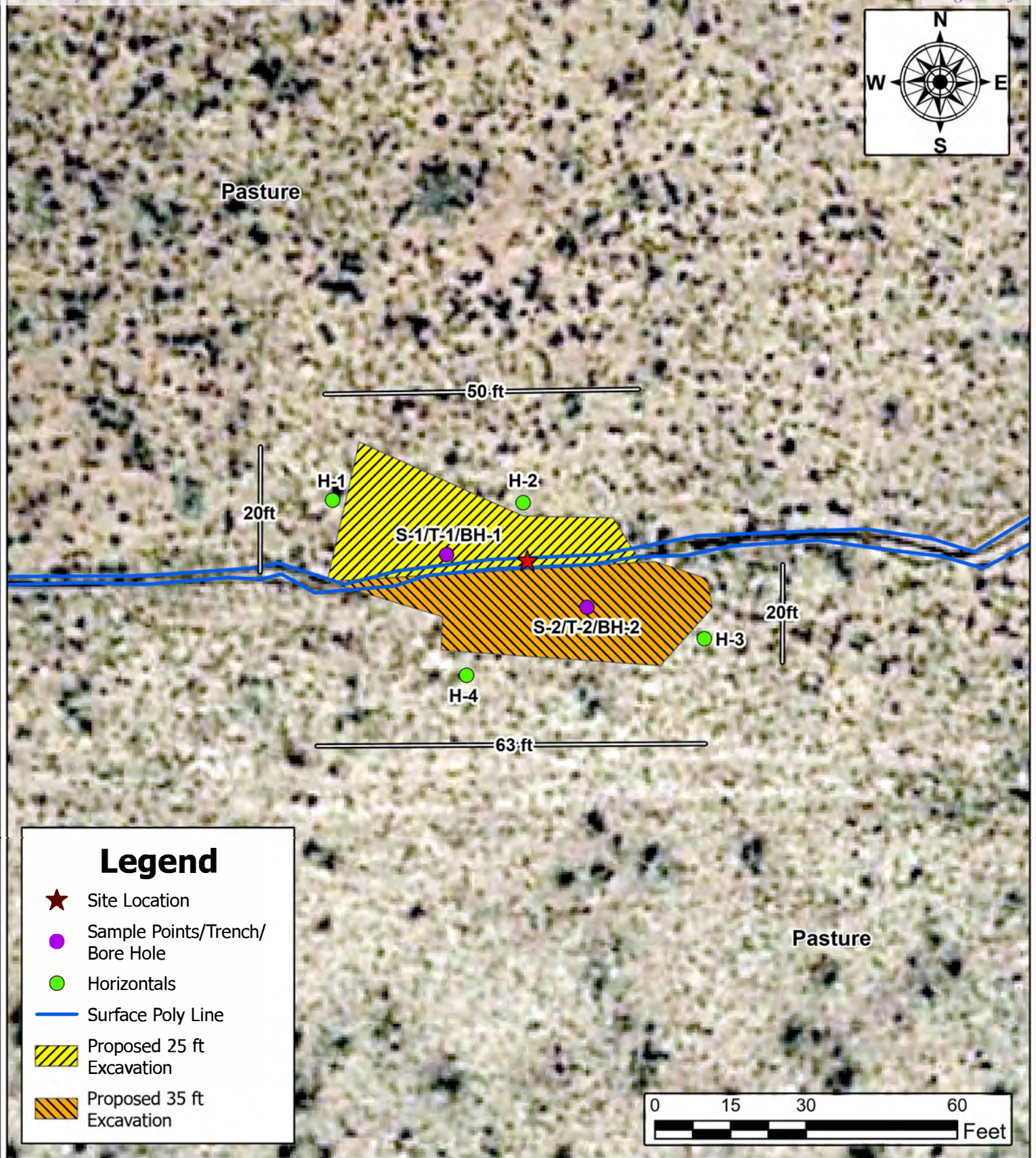
DRAWING NUMBER:

**FIGURE 3**

SHEET NUMBER:

**1 of 1**





**PROPOSED EXCAVATION DEPTH MAP  
EOG RESOURCES**

HORSE 29-1 FLOWLINE LEAK  
LEA COUNTY, NEW MEXICO  
32.108063, -103.506677

SCALE: As Shown

Date: 8/23/2022



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

**NOTES:**

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

DRAWING NUMBER:

**FIGURE 4**

SHEET NUMBER:

**1 of 1**

## APPENDIX A

CARMONA RESOURCES





**Table 1**  
**EOG**  
**Horse 29-1 Flowline Leak**  
**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						
<b>S-1</b>	7/20/2022	0-1	<b>16,300</b>	<b>1,040</b>	<b>4,330</b>	<b>21,670</b>	1.47	25.7	8.68	33.6	<b>69.4</b>	<b>43,600</b>
	"	1.0	<b>13,100</b>	<b>710</b>	<b>4,060</b>	<b>17,870</b>	1.08	18.8	6.56	24.9	<b>51.4</b>	<b>46,400</b>
	"	2.0	<b>18,200</b>	<b>3,940</b>	<b>3,960</b>	<b>26,100</b>	<b>19.4</b>	<b>123</b>	23.5	<b>89.6</b>	<b>256</b>	<b>10,200</b>
	"	3.0	<b>23,200</b>	<b>4,670</b>	<b>5,290</b>	<b>33,160</b>	<b>24.9</b>	<b>158</b>	34.5	<b>131</b>	<b>349</b>	<b>12,000</b>
	"	4.0	<b>3,140</b>	<b>235</b>	<b>838</b>	<b>4,213</b>	0.178	3.29	1.33	5.42	10.2	<b>16,000</b>
	"	5.0	<b>1,680</b>	<b>154</b>	<b>419</b>	<b>2,253</b>	0.249	4.29	1.63	6.51	12.7	<b>18,000</b>
<b>T-1</b>	7/27/2022	0-1	<b>284</b>	<b>6,740</b>	<b>1,200</b>	<b>8,224</b>	<0.050	<0.050	<0.050	4.44	4.44	<b>19,000</b>
	"	1.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>16,200</b>
	"	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>18,200</b>
	"	3.0	<10.0	<b>781</b>	<b>168</b>	<b>949</b>	<0.050	<0.050	<0.050	<0.150	<0.300	<b>18,000</b>
	"	4.0	10.3	45.5	18.5	64.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>19,600</b>
	"	5.0	<10.0	10.6	<10.0	10.6	<0.050	<0.050	<0.050	<0.150	<0.300	<b>20,000</b>
	"	6.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>18,400</b>
	"	7.0	<10.0	21.1	<10.0	21.1	<0.050	<0.050	<0.050	<0.150	<0.300	<b>34,800</b>
	"	8.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>20,000</b>
	"	9.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>20,800</b>
	"	10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>21,600</b>
	"	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>24,800</b>
<b>BH-1</b>	8/10/2022	20.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>12,400</b>
	"	25.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,200
	"	30.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,320
	"	35.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	8,930
	"	40.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,060
	"	45.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	8,720
	"	50.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,280
	"	55.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,920
	"	60.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,160
	"	65.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,320
<b>Regulatory Criteria<sup>A</sup></b>			<b>1,000 mg/kg</b>				<b>2,500 mg/kg</b>	-	-	-	<b>50 mg/kg</b>	<b>10,000 mg/kg</b>

(-) Not Analyzed

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

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(T) Trench

(S) Soil Sample

(BH) Bore hole

Proposed Excavation

**Table 1**  
**EOG**  
**Horse 29-1 Flowline Leak**  
**Lea County, New Mexico**

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
<b>S-2</b>	7/20/2022	0-1	<b>24,800</b>	<b>1,410</b>	<b>6,780</b>	<b>32,990</b>	1.96	32.5	10.8	<b>41.4</b>	<b>86.6</b>	<b>54,800</b>
	"	1.0	<b>11,500</b>	<b>594</b>	<b>3,520</b>	<b>15,614</b>	0.997	20.2	7.51	<b>29.5</b>	<b>58.2</b>	<b>39,600</b>
	"	2.0	<b>17,900</b>	<b>3,450</b>	<b>4,290</b>	<b>25,640</b>	<b>15.3</b>	<b>98.9</b>	20.6	<b>78.5</b>	<b>213</b>	<b>12,900</b>
	"	3.0	<b>285</b>	17.3	84.5	<b>387</b>	<0.050	0.240	0.142	0.601	0.996	<b>4,160</b>
	"	4.0	<b>374</b>	17.2	94.3	<b>486</b>	<0.050	0.200	0.129	0.604	0.951	<b>5,600</b>
	"	5.0	<b>811</b>	43.1	<b>196</b>	<b>1,050</b>	0.136	1.34	0.559	2.27	4.31	<b>5,680</b>
<b>T-2</b>	7/27/2022	0-1	<b>56.6</b>	<b>2,240</b>	<b>433</b>	<b>2,729</b>	<0.050	<0.050	<0.050	0.965	0.965	<b>15,200</b>
	"	1.0	<10.0	35.0	30.9	65.9	<0.050	<0.050	<0.050	<0.150	<0.150	<b>15,000</b>
	"	2.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>18,600</b>
	"	3.0	<10.0	<b>206</b>	48.1	<b>254</b>	<0.050	<0.050	<0.050	<0.150	<0.300	<b>19,400</b>
	"	4.0	<10.0	11.5	<10.0	11.5	<0.050	<0.050	<0.050	<0.150	<0.300	<b>22,400</b>
	"	5.0	<10.0	<b>132</b>	21.3	<b>153</b>	<0.050	<0.050	<0.050	<0.150	<0.300	<b>21,400</b>
	"	6.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>21,600</b>
	"	7.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>21,400</b>
	"	8.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>25,600</b>
	"	9.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>24,000</b>
	"	10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>36,400</b>
	"	11.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>21,600</b>
<b>BH-2</b>	8/10/2022	12.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>16,000</b>
	"	15.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>10,800</b>
	"	20.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>13,600</b>
	"	25.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>10,000</b>
	"	30.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<b>13,400</b>
	"	35.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,600
	"	40.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,200
	"	45.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,860
	"	50.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,130
	"	55.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,680
	"	60.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,920
	"	65.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,520
<b>BG-1</b>	8/10/2022	0-1	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
	"	5.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
	"	10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
	"	15.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
	"	20.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
<b>H-1</b>	7/20/2022	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	0.086	<0.050	<0.150	<0.300	<16.0
<b>H-2</b>	7/20/2022	0-0.5	<10.0	<10.0	<10.0	<10.0	0.052	0.085	<0.050	<0.150	<0.300	<16.0
<b>H-3</b>	7/20/2022	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
<b>H-4</b>	7/20/2022	0-0.5	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
<b>Regulatory Criteria<sup>A</sup></b>			1,000 mg/kg				2,500 mg/kg	-	-	-	50 mg/kg	10,000 mg/kg

(-) Not Analyzed

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

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet

(T) Trench

(H) Horizontal

(S) Soil Sample

(BH) Bore Hole

(BG) Background

Proposed Excavation

## APPENDIX B

CARMONA RESOURCES





# PHOTOGRAPHIC LOG

EOG Resources, Inc

**Photograph No. 1****Facility:** Horse 29 State #1H**County:** Lea County, New Mexico**Description:**View Northeast, areas of S-1/T-1/BH-1  
and S-2/T-2/BH-2.**Photograph No. 2****Facility:** Horse 29 State #1H**County:** Lea County, New Mexico**Description:**View Northeast, areas of S-1/T-1/BH-1  
and S-2/T-2/BH-2.**Photograph No. 3****Facility:** Horse 29 State #1H**County:** Lea County, New Mexico**Description:**

View East, of drilling activities.



## APPENDIX C

CARMONA RESOURCES



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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

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

Incident ID	nAPP2228545175
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party EOG Resources	OGRID 7377
Contact Name James Kennedy	Contact Telephone 432-848-9146
Contact email james_kennedy@eogresources.com	Incident # (assigned by OCD) nAPP2228545175
Contact mailing address 5509 Champions Drive Midland, TX 79706	

### Location of Release Source

Latitude 32.108063 Longitude -103.50667  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Horse 29 State #1H	Site Type Well site
Date Release Discovered 07/09/2022	API# (if applicable) 30-025-39633

Unit Letter	Section	Township	Range	County
D	29	25S	34E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) >5	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Loss of pressure on PW line, found small pinhole in flowline in pasture. Originally internally reported as 3 bbls, after assessment appears to be greater than 5 bbls.

Incident ID	nAPP2228545175
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Unknown volume
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? No, did not know it was reportable until we assessed, and did the calculation for the soil.	

## Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.  Printed Name: <u>James F. Kennedy</u> Title: <u>Env Specialist</u> Signature: <u>James F Kennedy</u> Date: <u>10/13/2022</u> email: <u>james_kennedy@eogresouirces.com</u> Telephone: <u>432-258-4346</u>
<b><u>OCD Only</u></b>  Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: James Kennedy Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: Jocelyn Harimon Date: 10/14/2022



Incident ID	
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_  
Signature: James Kennedy Date: \_\_\_\_\_  
email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: Jocelyn Harimon Date: 10/14/2022

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Jennifer Nobui Date: 11/04/2022

## APPENDIX D

CARMONA RESOURCES







Groundwater


Determination Bore

EOG Resources  
Horse 29-1  
Lea County, New Mexico  
32.102785, -103.502190

Legend

 0.50 Mile Radius

 EOG - Horse 29-1

 GWDB - 55'





TEST HOLES • WATER WELLS

LAMESA, TEXAS 79331

2001 South Hwy. 87

From	To	FORMATION
0	6	Top Soil
6	18	Caliche
18	28	Sand
28	55	Red Shale &
		Red Clay
		BH-1
		FOG Fox 30
		Plugged w/ Hole Plug
		32, 102785, -103, 52190

Date 12-29-2020 Driller

## Driller

GIBBS PRINTING CO. LAMESA, TX



NEAREST WATER WELL

EOG RESOURCES

**Legend**

- 0.50 Mile Radius
- 1.12 Miles
- 1.41 Miles
- Horse 29-1
- NMSEO Water Well
- USGS Water Well



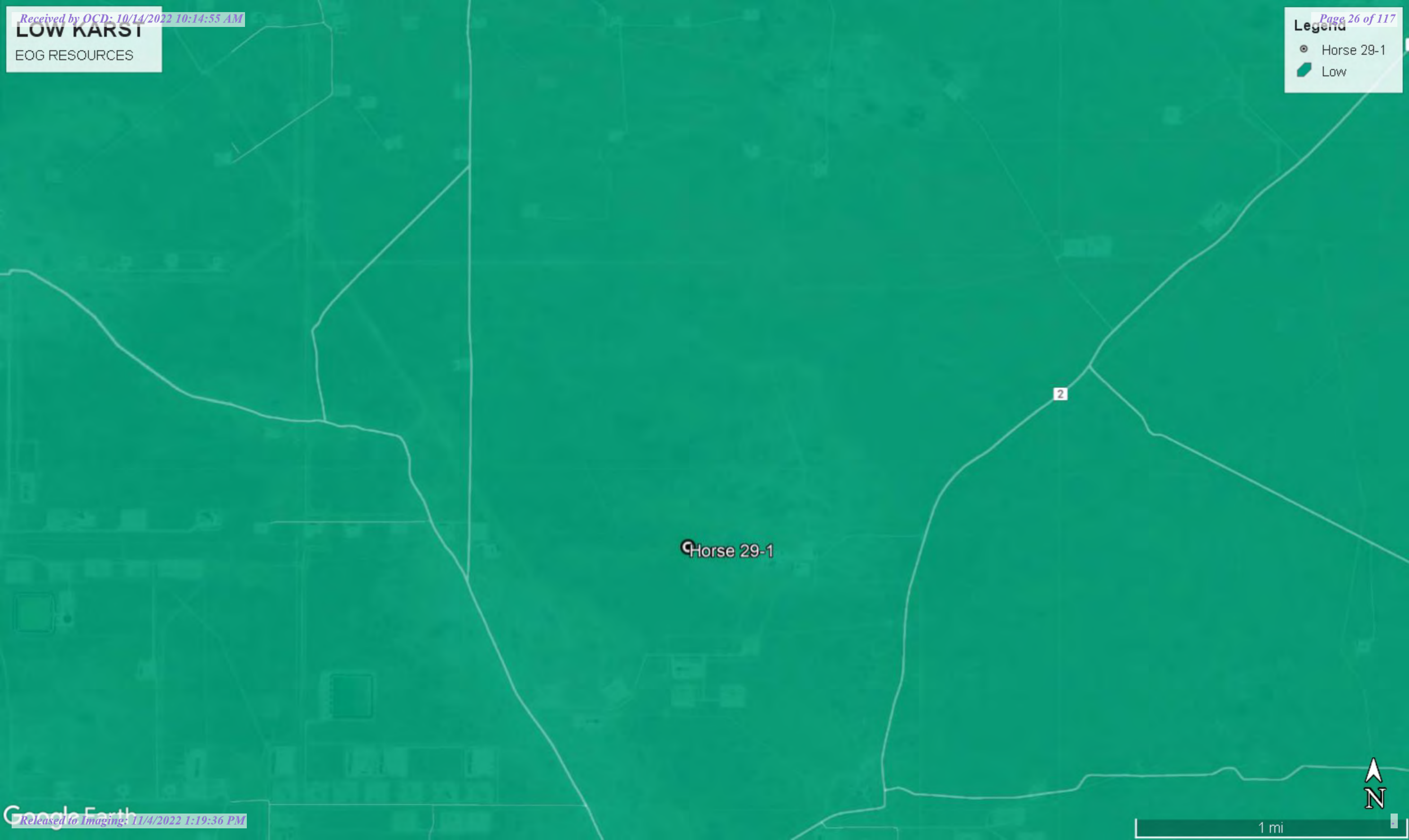


LOW KARST

EOG RESOURCES

Legend

- Horse 29-1
- Low







# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">C 02316</a>	CUB	LE		3	4	3	29	25S	34E	642003	3551967*	1797	100	50	50
<a href="#">C 02317</a>	CUB	LE		3	4	3	29	25S	34E	642003	3551967*	1797	100	50	50
<a href="#">C 02291</a>	CUB	LE		1	1	2	06	26S	34E	640825	3550140*	3254	220	160	60
<a href="#">C 03441 POD1</a>	C	LE		4	1	2	06	26S	34E	640971	3550039	3353	250		
<a href="#">C 03442 POD1</a>	C	LE		4	1	2	06	26S	34E	641056	3550028	3368	251		
<a href="#">C 02292 POD1</a>	CUB	LE		4	1	2	06	26S	34E	640992	3549987	3406	200	140	60
<a href="#">C 04628 POD1</a>	CUB	LE		1	1	2	01	26S	33E	639121	3550219	3643			
<a href="#">C 02373 S</a>	CUB	LE		1	2	1	13	25S	33E	638721	3556549*	3840	625	185	440
<a href="#">C 02373 CLW317846</a>	O	CUB	LE	2	1	1	13	25S	33E	638518	3556544*	3955	625	185	440

Average Depth to Water: **128 feet**

Minimum Depth: **50 feet**

Maximum Depth: **185 feet**

Record Count: 9

### UTM NAD83 Radius Search (in meters):

**Easting (X):** 640909.43

**Northing (Y):** 3553392.96

**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.

7/25/22 8:34 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
	C 02316	3	4	3	29	25S	34E	642003	3551967*
<hr/>									
<b>Driller License:</b>		<b>Driller Company:</b>							
<b>Driller Name:</b>		UNKNOWN							
<b>Drill Start Date:</b>		01/01/1880		<b>Drill Finish Date:</b>		06/30/1880		<b>Plug Date:</b>	
<b>Log File Date:</b>				<b>PCW Rev Date:</b>				<b>Source:</b>	
<b>Pump Type:</b>				<b>Pipe Discharge Size:</b>				<b>Estimated Yield:</b>	
								60 GPM	
<b>Casing Size:</b>		6.50		<b>Depth Well:</b>		100 feet		<b>Depth Water:</b>	
								50 feet	

\*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.

7/25/22 8:36 AM

POINT OF DIVERSION SUMMARY



USGS Home  
Contact USGS  
Search USGS

## National Water Information System: Web Interface

USGS Water Resources

Data Category:  Geographic Area:

Click to hide News Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

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

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 320523103294401

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

### USGS 320523103294401 25S.34E.29.343322

Lea County, New Mexico

Latitude 32°05'23", Longitude 103°29'44" NAD27

Land-surface elevation 3,321 feet above NAVD88

The depth of the well is 165 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) 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	? Source measur
1970-12-08			D 62610		3192.28	NGVD29	1		Z	
1970-12-08			D 62611		3193.85	NAVD88	1		Z	
1970-12-08			D 72019	127.15			1		Z	
1976-01-08			D 62610		3191.94	NGVD29	1		Z	
1976-01-08			D 62611		3193.51	NAVD88	1		Z	
1976-01-08			D 72019	127.49			1		Z	
1981-03-25			D 62610		3187.33	NGVD29	1		Z	
1981-03-25			D 62611		3188.90	NAVD88	1		Z	
1981-03-25			D 72019	132.10			1		Z	
1986-03-12			D 62610		3189.20	NGVD29	1		Z	
1986-03-12			D 62611		3190.77	NAVD88	1		Z	
1986-03-12			D 72019	130.23			1		Z	
1991-06-06			D 62610		3190.92	NGVD29	1		Z	
1991-06-06			D 62611		3192.49	NAVD88	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	? Source measur
1991-06-06		D	72019	128.51			1	Z		

Explanation

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

[Questions about sites/data?](#)  
[Feedback on this web site](#)  
[Automated retrievals](#)  
[Help](#)  
[Data Tips](#)  
[Explanation of terms](#)  
[Subscribe for system changes](#)  
[News](#)

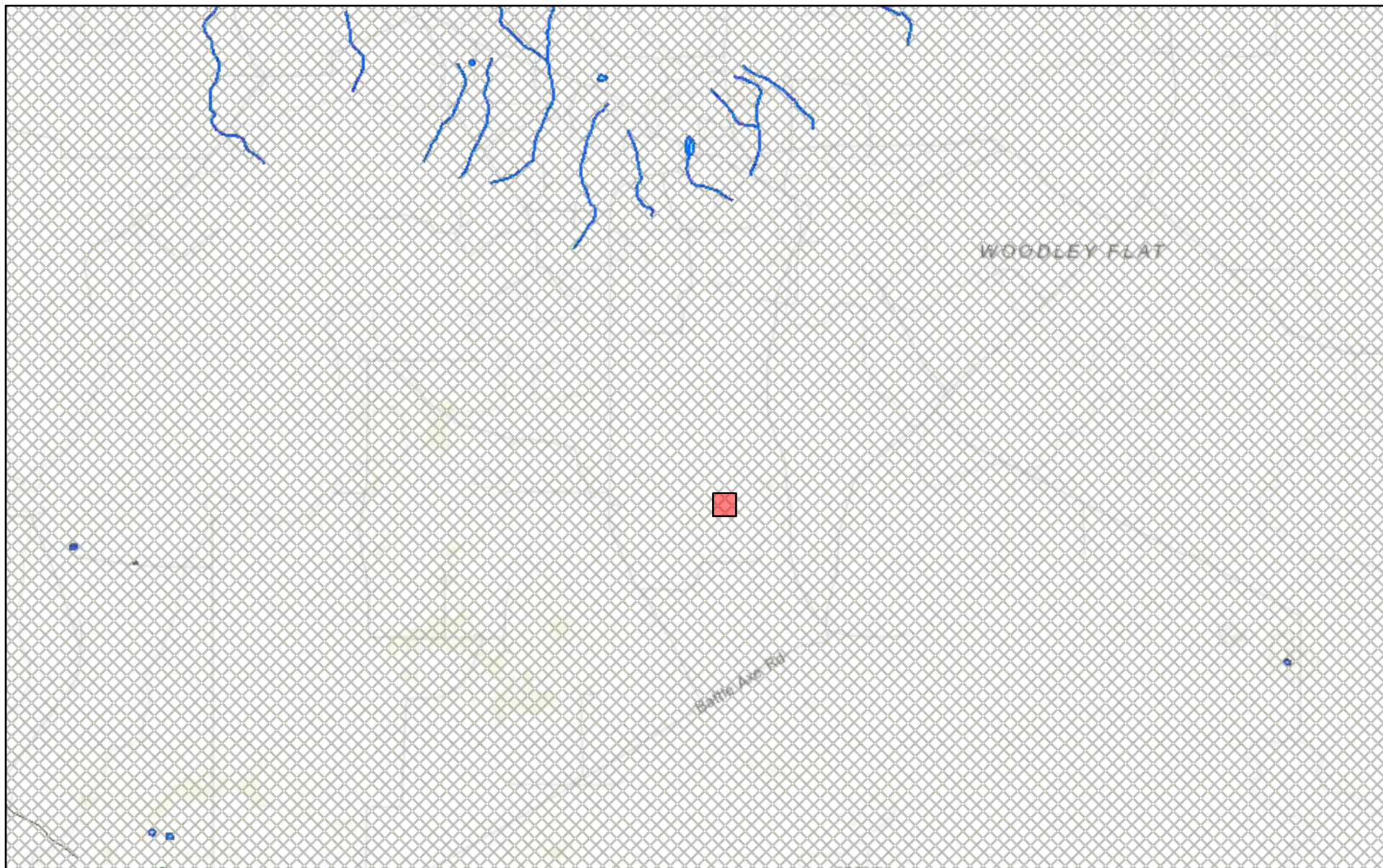
[Accessibility](#)   [FOIA](#)   [Privacy](#)   [Policies and Notices](#)  
[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)  
**Title: Groundwater for New Mexico: Water Levels**  
**URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=320523103294401&agency_cd=USGS&format=html)**



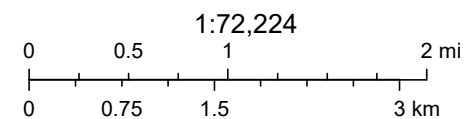
Page Contact Information: [New Mexico Water Data Maintainer](#)  
Page Last Modified: 2022-07-25 10:38:39 EDT  
0.34 0.3 nadww01



# New Mexico NFHL Data



July 25, 2022



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

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

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

## APPENDIX E

CARMONA RESOURCES







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

---

July 22, 2022

MIKE CARMONA

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: HORSE 29 - 1 FLOWLINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 07/20/22 17:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/20/2022  
 Reported: 07/22/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: LEA CO., NM  
 Project Location:

Sampling Date: 07/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 1 (0-0.5') (H223165-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.09	105	2.00	3.78	
<b>Toluene*</b>	<b>0.086</b>	0.050	07/21/2022	ND	2.16	108	2.00	3.31	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.16	108	2.00	3.83	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	6.59	110	6.00	4.25	
Total BTEX	<0.300	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/22/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2022	ND	208	104	200	2.42	
DRO >C10-C28*	<10.0	10.0	07/21/2022	ND	198	99.0	200	0.956	
EXT DRO >C28-C36	<10.0	10.0	07/21/2022	ND					

Surrogate: 1-Chlorooctane 78.2 % 43-149

Surrogate: 1-Chlorooctadecane 77.3 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

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



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

**Analytical Results For:**

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

Received: 07/20/2022  
 Reported: 07/22/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: LEA CO., NM  
 Project Location:

Sampling Date: 07/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 2 (0-0.5') (H223165-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.052	0.050	07/21/2022	ND	2.09	105	2.00	3.78	
Toluene*	0.085	0.050	07/21/2022	ND	2.16	108	2.00	3.31	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.16	108	2.00	3.83	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	6.59	110	6.00	4.25	
Total BTEx	<0.300	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2022	ND	208	104	200	2.42	
DRO >C10-C28*	<10.0	10.0	07/21/2022	ND	198	99.0	200	0.956	
EXT DRO >C28-C36	<10.0	10.0	07/21/2022	ND					

Surrogate: 1-Chlorooctane 92.5 % 43-149

Surrogate: 1-Chlorooctadecane 89.4 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

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



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

**Analytical Results For:**

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

Received: 07/20/2022  
 Reported: 07/22/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: LEA CO., NM  
 Project Location:

Sampling Date: 07/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 3 (0-0.5') (H223165-03)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.09	105	2.00	3.78	
Toluene*	<0.050	0.050	07/21/2022	ND	2.16	108	2.00	3.31	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.16	108	2.00	3.83	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	6.59	110	6.00	4.25	
Total BTX	<0.300	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/22/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2022	ND	208	104	200	2.42	
DRO >C10-C28*	<10.0	10.0	07/21/2022	ND	198	99.0	200	0.956	
EXT DRO >C28-C36	<10.0	10.0	07/21/2022	ND					

Surrogate: 1-Chlorooctane 92.6 % 43-149

Surrogate: 1-Chlorooctadecane 89.7 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

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



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

**Analytical Results For:**

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

Received: 07/20/2022  
 Reported: 07/22/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: LEA CO., NM  
 Project Location:

Sampling Date: 07/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 4 (0-0.5') (H223165-04)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.09	105	2.00	3.78	
Toluene*	<0.050	0.050	07/21/2022	ND	2.16	108	2.00	3.31	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.16	108	2.00	3.83	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	6.59	110	6.00	4.25	
Total BTX	<0.300	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/21/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2022	ND	208	104	200	2.42	
DRO >C10-C28*	<10.0	10.0	07/21/2022	ND	198	99.0	200	0.956	
EXT DRO >C28-C36	<10.0	10.0	07/21/2022	ND					

Surrogate: 1-Chlorooctane 98.2 % 43-149

Surrogate: 1-Chlorooctadecane 95.5 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

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



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

**Analytical Results For:**

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

Received: 07/20/2022  
 Reported: 07/22/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: LEA CO., NM  
 Project Location:

Sampling Date: 07/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1 (0-1') (H223165-05)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.47	0.500	07/21/2022	ND	2.09	105	2.00	3.78	
Toluene*	25.7	0.500	07/21/2022	ND	2.16	108	2.00	3.31	
Ethylbenzene*	8.68	0.500	07/21/2022	ND	2.16	108	2.00	3.83	
Total Xylenes*	33.6	1.50	07/21/2022	ND	6.59	110	6.00	4.25	
Total BTEX	69.4	3.00	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	43600	16.0	07/21/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1040	100	07/21/2022	ND	208	104	200	2.42	
DRO >C10-C28*	16300	100	07/21/2022	ND	198	99.0	200	0.956	
EXT DRO >C28-C36	4330	100	07/21/2022	ND					

Surrogate: 1-Chlorooctane 183 % 43-149

Surrogate: 1-Chlorooctadecane 705 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

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





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

**Analytical Results For:**

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

Received: 07/20/2022  
 Reported: 07/22/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: LEA CO., NM  
 Project Location:

Sampling Date: 07/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1 (1') (H223165-06)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.08	0.500	07/21/2022	ND	2.09	105	2.00	3.78	
Toluene*	18.8	0.500	07/21/2022	ND	2.16	108	2.00	3.31	
Ethylbenzene*	6.56	0.500	07/21/2022	ND	2.16	108	2.00	3.83	
Total Xylenes*	24.9	1.50	07/21/2022	ND	6.59	110	6.00	4.25	
Total BTX	51.4	3.00	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	46400	16.0	07/21/2022	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	710	100	07/21/2022	ND	208	104	200	2.42	
DRO >C10-C28*	13100	100	07/21/2022	ND	198	99.0	200	0.956	
EXT DRO >C28-C36	4060	100	07/21/2022	ND					

Surrogate: 1-Chlorooctane 179 % 43-149

Surrogate: 1-Chlorooctadecane 1550 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

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



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

**Analytical Results For:**

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

Received: 07/20/2022  
 Reported: 07/22/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: LEA CO., NM  
 Project Location:

Sampling Date: 07/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1 (2') (H223165-07)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	19.4	1.00	07/21/2022	ND	2.09	105	2.00	3.78	
Toluene*	123	1.00	07/21/2022	ND	2.16	108	2.00	3.31	
Ethylbenzene*	23.5	1.00	07/21/2022	ND	2.16	108	2.00	3.83	
Total Xylenes*	89.6	3.00	07/21/2022	ND	6.59	110	6.00	4.25	
Total BTEX	256	6.00	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10200	16.0	07/21/2022	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>3940</b>	100	07/21/2022	ND	208	104	200	2.42	
<b>DRO &gt;C10-C28*</b>	<b>18200</b>	100	07/21/2022	ND	198	99.0	200	0.956	
<b>EXT DRO &gt;C28-C36</b>	<b>3960</b>	100	07/21/2022	ND					

Surrogate: 1-Chlorooctane 500 % 43-149

Surrogate: 1-Chlorooctadecane 1700 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

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



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

**Analytical Results For:**

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

Received: 07/20/2022  
 Reported: 07/22/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: LEA CO., NM  
 Project Location:

Sampling Date: 07/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1 (3') (H223165-08)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>24.9</b>	1.00	07/21/2022	ND	2.09	105	2.00	3.78	
<b>Toluene*</b>	<b>158</b>	1.00	07/21/2022	ND	2.16	108	2.00	3.31	
<b>Ethylbenzene*</b>	<b>34.5</b>	1.00	07/21/2022	ND	2.16	108	2.00	3.83	
<b>Total Xylenes*</b>	<b>131</b>	3.00	07/21/2022	ND	6.59	110	6.00	4.25	
<b>Total BTX</b>	<b>349</b>	6.00	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 148 % 69.9-140

Chloride, SM4500CI-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>12000</b>	16.0	07/21/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>4670</b>	100	07/21/2022	ND	208	104	200	2.42	
<b>DRO &gt;C10-C28*</b>	<b>23200</b>	100	07/21/2022	ND	198	99.0	200	0.956	
<b>EXT DRO &gt;C28-C36</b>	<b>5290</b>	100	07/21/2022	ND					

Surrogate: 1-Chlorooctane 578 % 43-149

Surrogate: 1-Chlorooctadecane 2190 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

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



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

**Analytical Results For:**

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

Received: 07/20/2022  
 Reported: 07/22/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: LEA CO., NM  
 Project Location:

Sampling Date: 07/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1 (4') (H223165-09)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.178</b>	0.050	07/21/2022	ND	2.09	105	2.00	3.78	
<b>Toluene*</b>	<b>3.29</b>	0.050	07/21/2022	ND	2.16	108	2.00	3.31	
<b>Ethylbenzene*</b>	<b>1.33</b>	0.050	07/21/2022	ND	2.16	108	2.00	3.83	
<b>Total Xylenes*</b>	<b>5.42</b>	0.150	07/21/2022	ND	6.59	110	6.00	4.25	
<b>Total BTX</b>	<b>10.2</b>	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 158 % 69.9-140

Chloride, SM4500CI-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16000</b>	16.0	07/21/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>235</b>	50.0	07/21/2022	ND	208	104	200	2.42	
<b>DRO &gt;C10-C28*</b>	<b>3140</b>	50.0	07/21/2022	ND	198	99.0	200	0.956	
<b>EXT DRO &gt;C28-C36</b>	<b>838</b>	50.0	07/21/2022	ND					

Surrogate: 1-Chlorooctane 111 % 43-149

Surrogate: 1-Chlorooctadecane 372 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

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





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

**Analytical Results For:**

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

Received: 07/20/2022  
 Reported: 07/22/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: LEA CO., NM  
 Project Location:

Sampling Date: 07/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 1 (5') (H223165-10)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.249</b>	0.050	07/21/2022	ND	2.09	105	2.00	3.78	
<b>Toluene*</b>	<b>4.29</b>	0.050	07/21/2022	ND	2.16	108	2.00	3.31	
<b>Ethylbenzene*</b>	<b>1.63</b>	0.050	07/21/2022	ND	2.16	108	2.00	3.83	
<b>Total Xylenes*</b>	<b>6.51</b>	0.150	07/21/2022	ND	6.59	110	6.00	4.25	
<b>Total BTX</b>	<b>12.7</b>	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 156 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>18000</b>	16.0	07/21/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>154</b>	50.0	07/21/2022	ND	208	104	200	2.42	
<b>DRO &gt;C10-C28*</b>	<b>1680</b>	50.0	07/21/2022	ND	198	99.0	200	0.956	
<b>EXT DRO &gt;C28-C36</b>	<b>419</b>	50.0	07/21/2022	ND					

Surrogate: 1-Chlorooctane 101 % 43-149

Surrogate: 1-Chlorooctadecane 213 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

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



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

**Analytical Results For:**

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

Received: 07/20/2022  
 Reported: 07/22/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: LEA CO., NM  
 Project Location:

Sampling Date: 07/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2 (0-1') (H223165-11)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.96	0.500	07/21/2022	ND	2.09	105	2.00	3.78	
Toluene*	32.5	0.500	07/21/2022	ND	2.16	108	2.00	3.31	
Ethylbenzene*	10.8	0.500	07/21/2022	ND	2.16	108	2.00	3.83	
Total Xylenes*	41.4	1.50	07/21/2022	ND	6.59	110	6.00	4.25	
Total BTEX	86.6	3.00	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	54800	16.0	07/21/2022	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>1410</b>	100	07/21/2022	ND	208	104	200	2.42	
<b>DRO &gt;C10-C28*</b>	<b>24800</b>	100	07/21/2022	ND	198	99.0	200	0.956	
<b>EXT DRO &gt;C28-C36</b>	<b>6780</b>	100	07/21/2022	ND					

Surrogate: 1-Chlorooctane 181 % 43-149

Surrogate: 1-Chlorooctadecane 1320 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

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



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

**Analytical Results For:**

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

Received: 07/20/2022  
 Reported: 07/22/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: LEA CO., NM  
 Project Location:

Sampling Date: 07/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2 (1') (H223165-12)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.997	0.500	07/21/2022	ND	2.09	105	2.00	3.78	
Toluene*	20.2	0.500	07/21/2022	ND	2.16	108	2.00	3.31	
Ethylbenzene*	7.51	0.500	07/21/2022	ND	2.16	108	2.00	3.83	
Total Xylenes*	29.5	1.50	07/21/2022	ND	6.59	110	6.00	4.25	
Total BTEX	58.2	3.00	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	39600	16.0	07/21/2022	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>594</b>	100	07/21/2022	ND	208	104	200	2.42	
<b>DRO &gt;C10-C28*</b>	<b>11500</b>	100	07/21/2022	ND	198	99.0	200	0.956	
<b>EXT DRO &gt;C28-C36</b>	<b>3520</b>	100	07/21/2022	ND					

Surrogate: 1-Chlorooctane 151 % 43-149

Surrogate: 1-Chlorooctadecane 1260 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

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



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

**Analytical Results For:**

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

Received: 07/20/2022  
 Reported: 07/22/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: LEA CO., NM  
 Project Location:

Sampling Date: 07/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2 (2') (H223165-13)**

BTX 8021B		mg/kg		Analyzed By: JH				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	15.3	0.500	07/21/2022	ND	2.09	105	2.00	3.78		
Toluene*	98.9	0.500	07/21/2022	ND	2.16	108	2.00	3.31		
Ethylbenzene*	20.6	0.500	07/21/2022	ND	2.16	108	2.00	3.83		
Total Xylenes*	78.5	1.50	07/21/2022	ND	6.59	110	6.00	4.25		
Total BTX	213	3.00	07/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 156 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12900	16.0	07/21/2022	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
				S-06						

Surrogate: 1-Chlorooctane 453 % 43-149

Surrogate: 1-Chlorooctadecane 1690 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

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



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

**Analytical Results For:**

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

Received: 07/20/2022  
 Reported: 07/22/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: LEA CO., NM  
 Project Location:

Sampling Date: 07/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2 (3') (H223165-14)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.09	105	2.00	3.78	
Toluene*	0.240	0.050	07/21/2022	ND	2.16	108	2.00	3.31	
Ethylbenzene*	0.142	0.050	07/21/2022	ND	2.16	108	2.00	3.83	
Total Xylenes*	0.601	0.150	07/21/2022	ND	6.59	110	6.00	4.25	
Total BTX	0.996	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	07/21/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	17.3	10.0	07/21/2022	ND	208	104	200	2.42	
DRO >C10-C28*	285	10.0	07/21/2022	ND	198	99.0	200	0.956	
EXT DRO >C28-C36	84.5	10.0	07/21/2022	ND					

Surrogate: 1-Chlorooctane 80.4 % 43-149

Surrogate: 1-Chlorooctadecane 97.0 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

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





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

**Analytical Results For:**

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

Received: 07/20/2022  
 Reported: 07/22/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: LEA CO., NM  
 Project Location:

Sampling Date: 07/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2 (4') (H223165-15)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.09	105	2.00	3.78	
Toluene*	0.200	0.050	07/21/2022	ND	2.16	108	2.00	3.31	
Ethylbenzene*	0.129	0.050	07/21/2022	ND	2.16	108	2.00	3.83	
Total Xylenes*	0.604	0.150	07/21/2022	ND	6.59	110	6.00	4.25	
Total BTEX	0.951	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5600	16.0	07/21/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	17.2	10.0	07/21/2022	ND	208	104	200	2.42	
DRO >C10-C28*	374	10.0	07/21/2022	ND	198	99.0	200	0.956	
EXT DRO >C28-C36	94.3	10.0	07/21/2022	ND					

Surrogate: 1-Chlorooctane 84.7 % 43-149

Surrogate: 1-Chlorooctadecane 119 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

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



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

**Analytical Results For:**

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

Received: 07/20/2022  
 Reported: 07/22/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: LEA CO., NM  
 Project Location:

Sampling Date: 07/19/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S - 2 (5') (H223165-16)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.136	0.050	07/21/2022	ND	2.09	105	2.00	3.78	
Toluene*	1.34	0.050	07/21/2022	ND	2.16	108	2.00	3.31	
Ethylbenzene*	0.559	0.050	07/21/2022	ND	2.16	108	2.00	3.83	
Total Xylenes*	2.27	0.150	07/21/2022	ND	6.59	110	6.00	4.25	
Total BTEX	4.31	0.300	07/21/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5680	16.0	07/21/2022	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-04

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	43.1	10.0	07/21/2022	ND	208	104	200	2.42	
DRO >C10-C28*	811	10.0	07/21/2022	ND	198	99.0	200	0.956	
EXT DRO >C28-C36	196	10.0	07/21/2022	ND					

Surrogate: 1-Chlorooctane 96.7 % 43-149

Surrogate: 1-Chlorooctadecane 168 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

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



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

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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

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

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



251

† Cardinal cannot accept verbal changes. Please email changes to [celeyn.keene<sup>6</sup>@cardinallabsnm.com](mailto:celeyn.keene@cardinallabsnm.com)





101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2022

<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>			
<b>Company Name:</b>	California Res.			<b>P.O. #:</b>			
<b>Project Manager:</b>				<b>Company:</b>			
<b>Address:</b>				<b>Attn:</b>			
<b>City:</b>	<b>State:</b>	<b>Zip:</b>		<b>Address:</b>			
<b>Phone #:</b>	<b>Fax #:</b>			<b>City:</b>			
<b>Project #:</b>	<b>Project Owner:</b>			<b>State:</b>	<b>Zip:</b>		
<b>Project Name:</b>	Horse 29-1 Fiberglass Deck			<b>Phone #:</b>			
<b>Project Location:</b>				<b>Fax #:</b>			
<b>Sampler Name:</b>							
FOR LAB USE ONLY				MATRIX	PRESERV	SAMPLING	
<b>Lab I.D.</b>	<b>Sample I.D.</b>	(G)RABOR (C)OMP	# CONTAINERS	GROUNDWATER		DATE	TIME
				WASTEWATER			
				SOIL			
				OIL			
				SLUDGE			
				OTHER :			
				ACID/BASE:			
				ICE / COOL			
				OTHER :			

**PLEASE NOTE:** Liability and Damages. Cardholder's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Date:	Received By:	Time:	Remarks:
7-20-22	[Signature]	7:25	Turnaround Time: Standard Rush
Relinquished By:			
Delivered By: (Circle One)			
Observed Temp. °C	Corrected Temp. °C		
2.1	1.5		
Cool Intact	Yes No		
Checked BY: (Initials)	YES		
Thermometer ID #113	Correction Factor -0.5°C		
Standard Rush	Bacteria (only) Sample Condition		
	Cool Intact Yes No		
	Observed Temp. °C		
	Corrected Temp. °C		



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

---

July 28, 2022

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: HORSE 29 - 1 FLOWLINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 07/27/22 12:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 1 ( 0-1' ) (H223295-01)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70	
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68	GC-NC
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97	QM-07
Total Xylenes*	4.44	0.150	07/27/2022	ND	6.43	107	6.00	8.44	GC-NC1
Total BTEX	4.44	0.300	07/27/2022	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 261 % 69.9-140

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>19000</b>	16.0	07/28/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	284	50.0	07/27/2022	ND	193	96.4	200	3.90	
DRO >C10-C28*	6740	50.0	07/27/2022	ND	179	89.7	200	1.80	
EXT DRO >C28-C36	1200	50.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 126 % 43-149

Surrogate: 1-Chlorooctadecane 344 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 1 ( 1' ) (H223295-02)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70	
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68	
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97	
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.43	107	6.00	8.44	
Total BTX	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16200	16.0	07/28/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2022	ND	193	96.4	200	3.90	
DRO >C10-C28*	<10.0	10.0	07/28/2022	ND	179	89.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	07/28/2022	ND					

Surrogate: 1-Chlorooctane 84.2 % 43-149

Surrogate: 1-Chlorooctadecane 88.1 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 1 ( 2' ) (H223295-03)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70		
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.43	107	6.00	8.44		
Total BTX	<0.300	0.300	07/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18200	16.0	07/28/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2022	ND	193	96.4	200	3.90	
DRO >C10-C28*	<10.0	10.0	07/27/2022	ND	179	89.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 106 % 43-149

Surrogate: 1-Chlorooctadecane 109 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 1 ( 3' ) (H223295-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70		
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.43	107	6.00	8.44		
Total BTEx	<0.300	0.300	07/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18000	16.0	07/28/2022	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2022	ND	193	96.4	200	3.90	
DRO >C10-C28*	781	10.0	07/27/2022	ND	179	89.7	200	1.80	
EXT DRO >C28-C36	168	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 102 % 43-149

Surrogate: 1-Chlorooctadecane 120 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 1 ( 4' ) (H223295-05)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70	
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68	
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97	
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.43	107	6.00	8.44	
Total BTX	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	19600	16.0	07/28/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.3	10.0	07/27/2022	ND	193	96.4	200	3.90	
DRO >C10-C28*	45.5	10.0	07/27/2022	ND	179	89.7	200	1.80	
EXT DRO >C28-C36	18.5	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 122 % 43-149

Surrogate: 1-Chlorooctadecane 136 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 1 ( 5' ) (H223295-06)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70	
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68	
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97	
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.43	107	6.00	8.44	
Total BTX	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20000	16.0	07/28/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2022	ND	193	96.4	200	3.90	
DRO >C10-C28*	10.6	10.0	07/27/2022	ND	179	89.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 86.3 % 43-149

Surrogate: 1-Chlorooctadecane 91.7 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 1 ( 6' ) (H223295-07)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70	
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68	
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97	
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.43	107	6.00	8.44	
Total BTX	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18400	16.0	07/28/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2022	ND	193	96.4	200	3.90	
DRO >C10-C28*	<10.0	10.0	07/27/2022	ND	179	89.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 97.6 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 1 ( 7' ) (H223295-08)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70		
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.43	107	6.00	8.44		
Total BTX	<0.300	0.300	07/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	34800	16.0	07/28/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2022	ND	193	96.4	200	3.90	
DRO >C10-C28*	21.1	10.0	07/27/2022	ND	179	89.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 111 % 43-149

Surrogate: 1-Chlorooctadecane 118 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 1 ( 8' ) (H223295-09)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70		
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.43	107	6.00	8.44		
Total BTX	<0.300	0.300	07/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20000	16.0	07/28/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2022	ND	193	96.4	200	3.90	
DRO >C10-C28*	<10.0	10.0	07/27/2022	ND	179	89.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 119 % 43-149

Surrogate: 1-Chlorooctadecane 127 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 1 ( 9' ) (H223295-10)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70	
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68	
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97	
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.43	107	6.00	8.44	
Total BTX	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20800	16.0	07/28/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2022	ND	193	96.4	200	3.90	
DRO >C10-C28*	<10.0	10.0	07/27/2022	ND	179	89.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 95.0 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 1 ( 10' ) (H223295-11)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70		
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.43	107	6.00	8.44		
Total BTX	<0.300	0.300	07/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	21600	16.0	07/28/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2022	ND	193	96.4	200	3.90	
DRO >C10-C28*	<10.0	10.0	07/27/2022	ND	179	89.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 106 % 43-149

Surrogate: 1-Chlorooctadecane 116 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 1 ( 11' ) (H223295-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70		
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.43	107	6.00	8.44		
Total BTEx	<0.300	0.300	07/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	24800	16.0	07/28/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2022	ND	193	96.4	200	3.90	
DRO >C10-C28*	<10.0	10.0	07/27/2022	ND	179	89.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 112 % 43-149

Surrogate: 1-Chlorooctadecane 119 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 2 ( 0-1' ) (H223295-13)**

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70	
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68	
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97	
Total Xylenes*	0.965	0.150	07/27/2022	ND	6.43	107	6.00	8.44	GC-NC1
Total BTX	0.965	0.300	07/27/2022	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 166 % 69.9-140

Chloride, SM4500CI-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>15200</b>	16.0	07/28/2022	ND	432	108	400	0.00	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>56.6</b>	10.0	07/27/2022	ND	193	96.4	200	3.90	
<b>DRO &gt;C10-C28*</b>	<b>2240</b>	10.0	07/27/2022	ND	179	89.7	200	1.80	
<b>EXT DRO &gt;C28-C36</b>	<b>433</b>	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 103 % 43-149

Surrogate: 1-Chlorooctadecane 120 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 2 ( 1' ) (H223295-14)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70	
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68	
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97	
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.43	107	6.00	8.44	
Total BTX	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15000	16.0	07/28/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2022	ND	193	96.4	200	3.90	
DRO >C10-C28*	35.0	10.0	07/27/2022	ND	179	89.7	200	1.80	
EXT DRO >C28-C36	30.9	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 119 % 43-149

Surrogate: 1-Chlorooctadecane 131 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 2 ( 2' ) (H223295-15)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70		
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.43	107	6.00	8.44		
Total BTEX	<0.300	0.300	07/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18600	16.0	07/28/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2022	ND	193	96.4	200	3.90	
DRO >C10-C28*	<10.0	10.0	07/27/2022	ND	179	89.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 88.6 % 43-149

Surrogate: 1-Chlorooctadecane 97.9 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 2 ( 3' ) (H223295-16)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70	
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68	
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97	
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.43	107	6.00	8.44	
Total BTX	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	19400	16.0	07/28/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2022	ND	193	96.4	200	3.90	
DRO >C10-C28*	206	10.0	07/27/2022	ND	179	89.7	200	1.80	
EXT DRO >C28-C36	48.1	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 98.0 % 43-149

Surrogate: 1-Chlorooctadecane 111 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 2 ( 4' ) (H223295-17)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70	
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68	
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97	
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.43	107	6.00	8.44	
Total BTX	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	07/28/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2022	ND	193	96.4	200	3.90	
DRO >C10-C28*	11.5	10.0	07/27/2022	ND	179	89.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 99.4 % 43-149

Surrogate: 1-Chlorooctadecane 110 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 2 ( 5' ) (H223295-18)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70	
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68	
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97	
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.43	107	6.00	8.44	
Total BTEX	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	21400	16.0	07/28/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2022	ND	193	96.4	200	3.90	
DRO >C10-C28*	132	10.0	07/27/2022	ND	179	89.7	200	1.80	
EXT DRO >C28-C36	21.3	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 99.0 % 43-149

Surrogate: 1-Chlorooctadecane 112 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 2 ( 6' ) (H223295-19)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70		
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.43	107	6.00	8.44		
Total BTEx	<0.300	0.300	07/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	21600	16.0	07/28/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2022	ND	193	96.4	200	3.90	
DRO >C10-C28*	<10.0	10.0	07/27/2022	ND	179	89.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 43-149

Surrogate: 1-Chlorooctadecane 110 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 2 ( 7' ) (H223295-20)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2022	ND	1.93	96.3	2.00	9.70		
Toluene*	<0.050	0.050	07/27/2022	ND	2.02	101	2.00	9.68		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	2.08	104	2.00	9.97		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	6.43	107	6.00	8.44		
Total BTEX	<0.300	0.300	07/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21400	16.0	07/28/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2022	ND	193	96.4	200	3.90	
DRO >C10-C28*	<10.0	10.0	07/27/2022	ND	179	89.7	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 97.9 % 43-149

Surrogate: 1-Chlorooctadecane 109 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 2 ( 8' ) (H223295-21)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2022	ND	1.83	91.4	2.00	15.4	
Toluene*	<0.050	0.050	07/27/2022	ND	1.86	93.1	2.00	17.1	
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	1.91	95.3	2.00	16.5	
Total Xylenes*	<0.150	0.150	07/27/2022	ND	5.84	97.3	6.00	16.2	
Total BTX	<0.300	0.300	07/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	25600	16.0	07/28/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2022	ND	212	106	200	1.28	
DRO >C10-C28*	<10.0	10.0	07/27/2022	ND	223	112	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 2 ( 9' ) (H223295-22)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2022	ND	1.83	91.4	2.00	15.4		
Toluene*	<0.050	0.050	07/27/2022	ND	1.86	93.1	2.00	17.1		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	1.91	95.3	2.00	16.5		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	5.84	97.3	6.00	16.2		
Total BTX	<0.300	0.300	07/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	24000	16.0	07/28/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2022	ND	212	106	200	1.28	
DRO >C10-C28*	<10.0	10.0	07/27/2022	ND	223	112	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 86.9 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 2 ( 10' ) (H223295-23)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2022	ND	1.83	91.4	2.00	15.4		
Toluene*	<0.050	0.050	07/27/2022	ND	1.86	93.1	2.00	17.1		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	1.91	95.3	2.00	16.5		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	5.84	97.3	6.00	16.2		
Total BTEX	<0.300	0.300	07/27/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	36400	16.0	07/28/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/27/2022	ND	212	106	200	1.28	
DRO >C10-C28*	<10.0	10.0	07/27/2022	ND	223	112	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	07/27/2022	ND					

Surrogate: 1-Chlorooctane 87.5 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 07/27/2022  
 Reported: 07/28/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 07/27/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: TRENCH - 2 ( 11' ) (H223295-24)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2022	ND	1.83	91.4	2.00	15.4		
Toluene*	<0.050	0.050	07/27/2022	ND	1.86	93.1	2.00	17.1		
Ethylbenzene*	<0.050	0.050	07/27/2022	ND	1.91	95.3	2.00	16.5		
Total Xylenes*	<0.150	0.150	07/27/2022	ND	5.84	97.3	6.00	16.2		
Total BTEx	<0.300	0.300	07/27/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	21600	16.0	07/28/2022	ND	416	104	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2022	ND	212	106	200	1.28	
DRO >C10-C28*	<10.0	10.0	07/28/2022	ND	223	112	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	07/28/2022	ND					

Surrogate: 1-Chlorooctane 81.1 % 43-149

Surrogate: 1-Chlorooctadecane 94.3 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H22329

Page 1 of 3


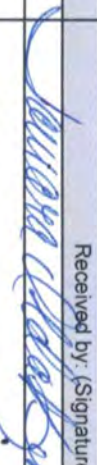
Project Manager:	Ashton Thielke	Bill to: (if different)	James Kennedy
Company Name:	Carmona Resources	Company Name:	EOG Resources
Address:	310 West Wall St. Suite 415	Address:	5509 Champions Dr
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Tx 79706
Phone:	432-813-5347	Email:	James_Kennedy@eogresources.com

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: 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: <input type="checkbox"/>	

Project Name:	Horse 29-1 Flowline Leak	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST										Preservative Codes			
Project Number:	1098	Due Date:	24 HR														None: NO	DI Water: H <sub>2</sub> O	
Project Location:	Lea Co. NM																Cool: Cool	MeOH: Me	
Sampler's Name:	AT																HCL: HC	HNO <sub>3</sub> : HN	
PO #:																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na	
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters												HOLD	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	113													NaHSO <sub>4</sub> : HP			
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.6 °C													NaHSO <sub>4</sub> : NABIS			
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	10.2 °C													Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>			
Total Containers:		Corrected Temperature:	9.6 °C													Zn Acetate+NaOH: Zn			
																NaOH+Ascorbic Acid: SPC			

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	TPH													Sample Comments
Trench -1 (0-1')	7/27/2022		X		Grab/	1	X	X	X											
Trench -1 (1')	7/27/2022		X		Grab/	1	X	X	X											
Trench -1 (2')	7/27/2022		X		Grab/	1	X	X	X											
Trench -1 (3')	7/27/2022		X		Grab/	1	X	X	X											
Trench -1 (4')	7/27/2022		X		Grab/	1	X	X	X											
Trench -1 (5')	7/27/2022		X		Grab/	1	X	X	X											
Trench -1 (6')	7/27/2022		X		Grab/	1	X	X	X											
Trench -1 (7')	7/27/2022		X		Grab/	1	X	X	X											
Trench -1 (8')	7/27/2022		X		Grab/	1	X	X	X											
Trench -1 (9')	7/27/2022		X		Grab/	1	X	X	X											

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com, Ashton Thielke Athielke@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	11/1/22		7-27-22 1300



## Chain of Custody

Work Order No: H223295Page 2 of 3

Page 28 of 29

Project Manager:	Ashton Thielke	Bill to: (if different)	James Kennedy
Company Name:	Carmona Resources	Company Name:	EOG Resources
Address:	310 West Wall St. Suite 415	Address:	5509 Champions Dr
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Tx 79706
Phone:	432-813-5347	Email:	James_Kennedy@eogresources.com

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:	Horse 29-1 Flowline Leak	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST												Preservative Codes	
Project Number:	1098	Due Date:	24 HR															None: NO	DI Water: H <sub>2</sub> O
Project Location	Lea Co. NM																	Cool: Cool	MeOH: Me
Sampler's Name:	AT																	HCL: HC	HNO <sub>3</sub> : HN
PO #:																		H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														H <sub>3</sub> PO <sub>4</sub> : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:																NaHSO <sub>4</sub> : NABIS	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:																Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:																Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature:																NaOH+Ascorbic Acid: SAPC	

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters												Sample Comments
Trench -1 (10')	7/27/2022		X		Grab/	1	X	X	X										
Trench -1 (11')	7/27/2022		X		Grab/	1	X	X	X										
Trench -2 (0-1')	7/27/2022		X		Grab/	1	X	X	X										
Trench -2 (1')	7/27/2022		X		Grab/	1	X	X	X										
Trench -2 (2')	7/27/2022		X		Grab/	1	X	X	X										
Trench -2 (3')	7/27/2022		X		Grab/	1	X	X	X										
Trench -2 (4')	7/27/2022		X		Grab/	1	X	X	X										
Trench -2 (5')	7/27/2022		X		Grab/	1	X	X	X										
Trench -2 (6')	7/27/2022		X		Grab/	1	X	X	X										
Trench -2 (7')	7/27/2022		X		Grab/	1	X	X	X										

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com, Ashton Thielke Athielke@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	7/27/21	<i>[Signature]</i>	7-27-22 1:00



## Chain of Custody

Work Order No: H223295



Page 29 of 29

Project Manager:	Ashlon Thielke	Bill to: (if different)	James Kennedy
Company Name:	Carmona Resources	Company Name:	EOG Resources
Address:	310 West Wall St. Suite 415	Address:	5509 Champions Dr
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Tx 79706
Phone:	432-813-5347	Email:	James_Kennedy@eogresources.com

Work Order Comments	
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:

[illegible]

Comments: Email to Mike Carrmona / [Mccarrmona@cammonaresources.com](mailto:Mccarrmona@cammonaresources.com) and Conner Moehring / [Cmoehring@cammonaresources.com](mailto:Cmoehring@cammonaresources.com)

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	7/21/22		7.27.22 1:00





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

---

August 16, 2022

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: HORSE 29 - 1 FLOWLINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 08/10/22 16:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	08/10/2022	Sampling Date:	08/10/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	HORSE 29 - 1 FLOWLINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	1098	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

**Sample ID: BH - 1 ( 20' ) (H223616-01)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2022	ND	2.03	102	2.00	6.27	
Toluene*	<0.050	0.050	08/14/2022	ND	2.06	103	2.00	6.49	
Ethylbenzene*	<0.050	0.050	08/14/2022	ND	2.07	103	2.00	6.75	
Total Xylenes*	<0.150	0.150	08/14/2022	ND	6.32	105	6.00	5.47	
Total BTEX	<0.300	0.300	08/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12400	16.0	08/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 74.8 % 43-149

Surrogate: 1-Chlorooctadecane 90.2 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 ( 25' ) (H223616-02)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/14/2022	ND	2.03	102	2.00	6.27		
Toluene*	<0.050	0.050	08/14/2022	ND	2.06	103	2.00	6.49		
Ethylbenzene*	<0.050	0.050	08/14/2022	ND	2.07	103	2.00	6.75		
Total Xylenes*	<0.150	0.150	08/14/2022	ND	6.32	105	6.00	5.47		
Total BTX	<0.300	0.300	08/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7200	16.0	08/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 126 % 43-149

Surrogate: 1-Chlorooctadecane 150 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 ( 30' ) (H223616-03)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/14/2022	ND	2.03	102	2.00	6.27		
Toluene*	<0.050	0.050	08/14/2022	ND	2.06	103	2.00	6.49		
Ethylbenzene*	<0.050	0.050	08/14/2022	ND	2.07	103	2.00	6.75		
Total Xylenes*	<0.150	0.150	08/14/2022	ND	6.32	105	6.00	5.47		
Total BTEx	<0.300	0.300	08/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4320	16.0	08/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 92.7 % 43-149

Surrogate: 1-Chlorooctadecane 108 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 ( 35' ) (H223616-04)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2022	ND	2.03	102	2.00	6.27	
Toluene*	<0.050	0.050	08/14/2022	ND	2.06	103	2.00	6.49	
Ethylbenzene*	<0.050	0.050	08/14/2022	ND	2.07	103	2.00	6.75	
Total Xylenes*	<0.150	0.150	08/14/2022	ND	6.32	105	6.00	5.47	
Total BTX	<0.300	0.300	08/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8930	16.0	08/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 85.1 % 43-149

Surrogate: 1-Chlorooctadecane 99.9 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 ( 40' ) (H223616-05)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/14/2022	ND	2.03	102	2.00	6.27		
Toluene*	<0.050	0.050	08/14/2022	ND	2.06	103	2.00	6.49		
Ethylbenzene*	<0.050	0.050	08/14/2022	ND	2.07	103	2.00	6.75		
Total Xylenes*	<0.150	0.150	08/14/2022	ND	6.32	105	6.00	5.47		
Total BTEX	<0.300	0.300	08/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7060	16.0	08/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 86.4 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 ( 45' ) (H223616-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2022	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	08/13/2022	ND	2.12	106	2.00	4.42		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.02	101	2.00	5.61		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.30	105	6.00	5.59		
Total BTEx	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8720	16.0	08/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 90.3 % 43-149

Surrogate: 1-Chlorooctadecane 104 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 ( 50' ) (H223616-07)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2022	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	08/13/2022	ND	2.12	106	2.00	4.42		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.02	101	2.00	5.61		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.30	105	6.00	5.59		
Total BTX	<0.300	0.300	08/13/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5280	16.0	08/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 75.9 % 43-149

Surrogate: 1-Chlorooctadecane 89.2 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 ( 55' ) (H223616-08)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2022	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	08/13/2022	ND	2.12	106	2.00	4.42		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.02	101	2.00	5.61		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.30	105	6.00	5.59		
Total BTX	<0.300	0.300	08/13/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3920	16.0	08/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 70.0 % 43-149

Surrogate: 1-Chlorooctadecane 84.4 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 ( 60' ) (H223616-09)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2022	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	08/13/2022	ND	2.12	106	2.00	4.42		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.02	101	2.00	5.61		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.30	105	6.00	5.59		
Total BTEX	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	08/15/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 81.6 % 43-149

Surrogate: 1-Chlorooctadecane 96.4 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 1 ( 65' ) (H223616-10)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2022	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	08/13/2022	ND	2.12	106	2.00	4.42		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.02	101	2.00	5.61		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.30	105	6.00	5.59		
Total BTEX	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4320	16.0	08/16/2022	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 80.1 % 43-149

Surrogate: 1-Chlorooctadecane 93.2 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 ( 12' ) (H223616-11)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2022	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	08/13/2022	ND	2.12	106	2.00	4.42		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.02	101	2.00	5.61		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.30	105	6.00	5.59		
Total BTX	<0.300	0.300	08/13/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16000	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 76.9 % 43-149

Surrogate: 1-Chlorooctadecane 90.7 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 ( 15' ) (H223616-14)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2022	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	08/13/2022	ND	2.12	106	2.00	4.42		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.02	101	2.00	5.61		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.30	105	6.00	5.59		
Total BTEX	<0.300	0.300	08/13/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10800	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 80.0 % 43-149

Surrogate: 1-Chlorooctadecane 93.8 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 ( 20' ) (H223616-19)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2022	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	08/13/2022	ND	2.12	106	2.00	4.42		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.02	101	2.00	5.61		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.30	105	6.00	5.59		
Total BTEx	<0.300	0.300	08/13/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13600	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 66.3 % 43-149

Surrogate: 1-Chlorooctadecane 78.3 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 ( 25' ) (H223616-20)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2022	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	08/13/2022	ND	2.12	106	2.00	4.42		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.02	101	2.00	5.61		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.30	105	6.00	5.59		
Total BTX	<0.300	0.300	08/13/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10000	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 79.8 % 43-149

Surrogate: 1-Chlorooctadecane 95.3 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 ( 30' ) (H223616-21)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2022	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	08/13/2022	ND	2.12	106	2.00	4.42		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.02	101	2.00	5.61		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.30	105	6.00	5.59		
Total BTEx	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13400	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	216	108	200	2.87	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	196	97.8	200	0.536	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 78.3 % 43-149

Surrogate: 1-Chlorooctadecane 92.9 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 ( 35' ) (H223616-22)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2022	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	08/13/2022	ND	2.12	106	2.00	4.42		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.02	101	2.00	5.61		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.30	105	6.00	5.59		
Total BTEx	<0.300	0.300	08/13/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7600	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 43-149

Surrogate: 1-Chlorooctadecane 99.7 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 ( 40' ) (H223616-23)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2022	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	08/13/2022	ND	2.12	106	2.00	4.42		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.02	101	2.00	5.61		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.30	105	6.00	5.59		
Total BTX	<0.300	0.300	08/13/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7200	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 88.6 % 43-149

Surrogate: 1-Chlorooctadecane 95.8 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 ( 45' ) (H223616-24)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2022	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	08/13/2022	ND	2.12	106	2.00	4.42		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.02	101	2.00	5.61		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.30	105	6.00	5.59		
Total BTEX	<0.300	0.300	08/13/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5860	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 93.1 % 43-149

Surrogate: 1-Chlorooctadecane 99.0 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 ( 50' ) (H223616-25)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2022	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	08/13/2022	ND	2.12	106	2.00	4.42		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.02	101	2.00	5.61		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.30	105	6.00	5.59		
Total BTX	<0.300	0.300	08/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4130	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 95.1 % 43-149

Surrogate: 1-Chlorooctadecane 103 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 ( 55' ) (H223616-26)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2022	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	08/13/2022	ND	2.12	106	2.00	4.42		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.02	101	2.00	5.61		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.30	105	6.00	5.59		
Total BTEx	<0.300	0.300	08/13/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 43-149

Surrogate: 1-Chlorooctadecane 98.5 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 ( 60' ) (H223616-27)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2022	ND	2.06	103	2.00	0.142	
Toluene*	<0.050	0.050	08/13/2022	ND	2.12	106	2.00	4.42	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.02	101	2.00	5.61	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.30	105	6.00	5.59	
Total BTX	<0.300	0.300	08/13/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3920	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 43-149

Surrogate: 1-Chlorooctadecane 94.2 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BH - 2 ( 65' ) (H223616-28)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/13/2022	ND	2.06	103	2.00	0.142		
Toluene*	<0.050	0.050	08/13/2022	ND	2.12	106	2.00	4.42		
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	2.02	101	2.00	5.61		
Total Xylenes*	<0.150	0.150	08/13/2022	ND	6.30	105	6.00	5.59		
Total BTX	<0.300	0.300	08/13/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7520	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/12/2022	ND	185	92.4	200	11.8	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	211	106	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 88.7 % 43-149

Surrogate: 1-Chlorooctadecane 95.2 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



---

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

---

### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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

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

---

Celey D. Keene, Lab Director/Quality Manager

## Chain of Custody

Work Order No:

H223616

Page 1 of 3



Project Manager:	Ashton Thielke	Bill To: (if different)	James Kennedy
Company Name:	Carmona Resources	Company Name:	EOG Resources
Address:	310 West Wall St. Suite 415	Address:	5509 Champions Dr
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79706
Phone:	432-813-5347	Email:	James_Kennedy@eogresources.com

Work Order Comments	
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:	Horse 29-1 Flowline Leak	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST												Preservative Codes	
Project Number:	1098																	None: NO	DI Water: H <sub>2</sub> O
Project Location	Lea Co. NM	Due Date:																Cool: Cool	MeOH: Me
Sampler's Name:	AT																	HCL: HC	HNO <sub>3</sub> : HN
PO #:																		H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														H <sub>3</sub> PO <sub>4</sub> : HP	
	Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:															NaHSO <sub>4</sub> : NABIS	
	Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Correction Factor:															Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
	Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Temperature Reading:															Zn Acetate+NaOH: Zn	
	Total Containers:		Corrected Temperature:															NaOH+Ascorbic Acid: SAPC	

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters												Sample Comments	
BH-1 (20')	8/10/2022		X		G	1	BTEX 8021B													
BH-1 (25')	8/10/2022		X		G	1	TPH 8015M ( GRO + DRO + MRO)													
BH-1 (30')	8/10/2022		X		G	1	Chloride 4500													
BH-1 (35')	8/10/2022		X		G	1														
BH-1 (40')	8/10/2022		X		G	1														
BH-1 (45')	8/10/2022		X		G	1														
BH-1 (50')	8/10/2022		X		G	1														
BH-1 (55')	8/10/2022		X		G	1														
BH-1 (60')	8/10/2022		X		G	1														
BH-1 (65')	8/10/2022		X		G	1														

Comments: Email to Mike Carmona / mcarmona@carmonaresources.com and Conner Moehring / cmoehring@carmonaresources.com, Ashton Thielke Athielke@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/10/2022		8/10/22 1640



Chain of Custody

Work Order No: \_\_\_\_\_

Page 2 of 3

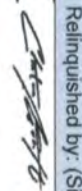

Project Manager:	Ashton Thielke	Bill to: (if different)	James Kennedy
Company Name:	Carmona Resources	Company Name:	EOG Resources
Address:	310 West Wall St. Suite 415	Address:	5509 Champions Dr
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, Tx 79706
Phone:	432-813-6347	Email:	James_Kennedy@eogresources.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRR <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:	Horse 29-1 Flowline Leak	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	1098	Due Date:															None: NO	DI Water: H <sub>2</sub> O	
Project Location:	Lea Co. NM																Cool: Cool	MeOH: Me	
Sampler's Name:	AT																HCL: HC	HNO <sub>3</sub> : HN	
PO #:																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na	
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Well Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters												HOLD	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:																H <sub>3</sub> PO <sub>4</sub> : HP	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:																NaHSO <sub>4</sub> : NABIS	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:																Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Total Containers:		Corrected Temperature:																Zn Acetate+NaOH: Zn	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	TPH										Sample Comments	
BH-2 (12)	8/10/2022		X		G	1	X	X	X									
BH-2 (13)	8/10/2022		X		G	1											X	
BH-2 (14)	8/10/2022		X		G	1											X	
BH-2 (15)	8/10/2022		X		G	1	X	X	X									
BH-2 (16)	8/10/2022		X		G	1											X	
BH-2 (17)	8/10/2022		X		G	1											X	
BH-2 (18)	8/10/2022		X		G	1											X	
BH-2 (19)	8/10/2022		X		G	1											X	
BH-2 (20)	8/10/2022		X		G	1	X	X	X									
BH-2 (25)	8/10/2022		X		G	1	X	X	X									

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com, Ashton Thielke Athielke@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/10/2022		8/10/22 1440



Chain of Custody

Work Order No: \_\_\_\_\_

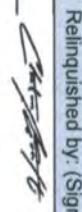

Page 3 of 3

Project Manager:	Ashton Thielke	Bill to: (if different)	James Kennedy
Company Name:	Carmona Resources	Company Name:	EOG Resources
Address:	310 West Wall St. Suite 415	Address:	5509 Champions Dr
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79706
Phone:	432-813-5347	Email:	James_Kennedy@eogresources.com

Work Order Comments	
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:	Horse 29-1 Flowline Leak	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	1098	Due Date:															None: NO	DI Water: H <sub>2</sub> O		
Project Location:	Lea Co. NM																Cool: Cool	MeOH: Me		
Sampler's Name:	AT																HCL: HC	HNO <sub>3</sub> : HN		
PO #:																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na		
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters												HOLD		
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	113			BTX 8021B												NaHSO <sub>4</sub> : HP		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:	-0.6%			TPH 8015M ( GRO + DRO + MRO)												NaHSO <sub>4</sub> : NABIS		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:	5.7°C			Chloride 4500												Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>		
Total Containers:		Corrected Temperature:	5.1°C															Zn Acetate+NaOH: Zn		
																		NaOH+Ascorbic Acid: SAPC		
Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont													Sample Comments	
BH-2 (30')	8/10/2022		X		G	1	X	X	X	X										
BH-2 (35')	8/10/2022		X		G	1	X	X	X	X										
BH-2 (40')	8/10/2022		X		G	1	X	X	X	X										
BH-2 (45')	8/10/2022		X		G	1	X	X	X	X										
BH-2 (50')	8/10/2022		X		G	1	X	X	X	X										
BH-2 (55')	8/10/2022		X		G	1	X	X	X	X										
BH-2 (60')	8/10/2022		X		G	1	X	X	X	X										
BH-2 (65')	8/10/2022		X		G	1	X	X	X	X										

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com, Ashton Thielke Athielke@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/10/2022		8/10/22 10:40



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

---

August 16, 2022

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST SUITE 415

MIDLAND, TX 79701

RE: HORSE 29 - 1 FLOWLINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 08/10/22 16:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG ( 0-1' ) (H223658-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2022	ND	2.04	102	2.00	0.0537	
Toluene*	<0.050	0.050	08/15/2022	ND	1.97	98.6	2.00	0.278	
Ethylbenzene*	<0.050	0.050	08/15/2022	ND	1.93	96.6	2.00	0.508	
Total Xylenes*	<0.150	0.150	08/15/2022	ND	5.94	99.1	6.00	1.06	
Total BTEX	<0.300	0.300	08/15/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	08/16/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2022	ND	215	107	200	1.53	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	234	117	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					

Surrogate: 1-Chlorooctane 78.3 % 43-149

Surrogate: 1-Chlorooctadecane 81.3 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG ( 5' ) (H223658-02)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2022	ND	2.04	102	2.00	0.0537	
Toluene*	<0.050	0.050	08/15/2022	ND	1.97	98.6	2.00	0.278	
Ethylbenzene*	<0.050	0.050	08/15/2022	ND	1.93	96.6	2.00	0.508	
Total Xylenes*	<0.150	0.150	08/15/2022	ND	5.94	99.1	6.00	1.06	
Total BTX	<0.300	0.300	08/15/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/16/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2022	ND	215	107	200	1.53	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	234	117	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					

Surrogate: 1-Chlorooctane 97.8 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG ( 10' ) (H223658-03)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2022	ND	2.04	102	2.00	0.0537	
Toluene*	<0.050	0.050	08/15/2022	ND	1.97	98.6	2.00	0.278	
Ethylbenzene*	<0.050	0.050	08/15/2022	ND	1.93	96.6	2.00	0.508	
Total Xylenes*	<0.150	0.150	08/15/2022	ND	5.94	99.1	6.00	1.06	
Total BTX	<0.300	0.300	08/15/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2022	ND	215	107	200	1.53	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	234	117	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 43-149

Surrogate: 1-Chlorooctadecane 94.8 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG ( 15' ) (H223658-04)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2022	ND	2.04	102	2.00	0.0537	
Toluene*	<0.050	0.050	08/15/2022	ND	1.97	98.6	2.00	0.278	
Ethylbenzene*	<0.050	0.050	08/15/2022	ND	1.93	96.6	2.00	0.508	
Total Xylenes*	<0.150	0.150	08/15/2022	ND	5.94	99.1	6.00	1.06	
Total BTX	<0.300	0.300	08/15/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2022	ND	215	107	200	1.53	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	234	117	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					

Surrogate: 1-Chlorooctane 82.0 % 43-149

Surrogate: 1-Chlorooctadecane 85.5 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 08/10/2022  
 Reported: 08/16/2022  
 Project Name: HORSE 29 - 1 FLOWLINE LEAK  
 Project Number: 1098  
 Project Location: EOG - LEA CO NM

Sampling Date: 08/10/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BG ( 20' ) (H223658-05)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2022	ND	2.04	102	2.00	0.0537	
Toluene*	<0.050	0.050	08/15/2022	ND	1.97	98.6	2.00	0.278	
Ethylbenzene*	<0.050	0.050	08/15/2022	ND	1.93	96.6	2.00	0.508	
Total Xylenes*	<0.150	0.150	08/15/2022	ND	5.94	99.1	6.00	1.06	
Total BTX	<0.300	0.300	08/15/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/16/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2022	ND	215	107	200	1.53	
DRO >C10-C28*	<10.0	10.0	08/15/2022	ND	234	117	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/15/2022	ND					

Surrogate: 1-Chlorooctane 81.4 % 43-149

Surrogate: 1-Chlorooctadecane 85.2 % 42.5-161

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



---

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

---

### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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

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

---

Celey D. Keene, Lab Director/Quality Manager

**Work Order No:**



Page 1 of 1

Page 8 of 8

Work Order Comments	
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:	

Phone: 432-813-534		ANALYSIS REQUEST		Preservative Codes						
Project Name:	Horse 29-1 Flowline Leak	Turn Around		None: NO	DI Water: H <sub>2</sub> O					
Project Number:	1098	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush	Cool: Cool	MeOH: Me					
Project Location:	Lea Co., NM	Due Date:		HCL: HC	HNO <sub>3</sub> : HN					
Sampler's Name:	AT			H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na					
PO #:				H <sub>3</sub> PO <sub>4</sub> : HP						
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No	HOLD						
Received Inlet:	Yes <input checked="" type="checkbox"/> No	Thermometer ID:	Yes <input checked="" type="checkbox"/> No	NaHSO <sub>4</sub> : NABIS						
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No	Correction Factor:	-0.6°C	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>						
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No	Temperature Reading:	5.7°C	Zn Acetate+NaOH: Zn						
Total Containers:	N/A	Corrected Temperature:	5.1°C	NaOH+Ascorbic Acid: SAPC						
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont	Sample Comments		
BG (0-1')	8/10/2022			X		G	1	X	X	X
BG (5')	8/10/2022			X		G	1	X	X	X
BG (10')	8/10/2022			X		G	1	X	X	X
BG (15')	8/10/2022			X		G	1	X	X	X
BG (20')	8/10/2022			X		G	1	X	X	X

Comments: Email to Mike Carmona / [Mcarmona@carmonaresources.com](mailto:Mcarmona@carmonaresources.com) and Conner Moehring / [Cmoehring@carmonaresources.com](mailto:Cmoehring@carmonaresources.com), Ashton Thielke [Atthielke@carmonaresources.com](mailto:Atthielke@carmonaresources.com)

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	8/10/2022		8/10/22 1444



**District I**

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

**District II**

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

**District III**

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

**District IV**

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

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

CONDITIONS

Action 150978

**CONDITIONS**

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 150978
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. OCD approves the installation of a liner at 4.5' within both excavation locations. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than two hundred (200) square feet.	11/4/2022