

# Trinity Oilfield Services & Rentals, LLC



July 16<sup>th</sup>, 2024

Oil Conservation Division, District I  
1625 N. French Drive  
Hobbs, NM 88240

Re: **Remediation Closure Request**  
**North Vacuum Abo Unit #246**  
**Tracking #: NAPP2326134968**

Trinity Oilfield Services (Trinity), on behalf of Cross Timbers Energy, LLC, hereby submits the following Remediation Closure Request in response to a release that occurred at the above-referenced location, and further described below.

| Site Information         |                            |
|--------------------------|----------------------------|
| Incident ID              | NAPP2326134968             |
| Site Name                | North Vacuum Abo Unit #246 |
| Company                  | Cross Timbers Energy, LLC  |
| County                   | Lea                        |
| ULSTR                    | O-24-17S-34E               |
| GPS Coordinates (NAD 83) | 32.815127, -103.511931     |
| Lease ID                 | B018380005                 |
| Landowner                | State                      |

## RELEASE BACKGROUND

On 09/18/2023, Cross Timbers Energy, LLC reported a release at the North Vacuum Abo Unit #246. The release was caused by packing box failure. Approximately 267 sqft. of the Pad was found to be damp upon initial inspection.

| Release Information               |                               |
|-----------------------------------|-------------------------------|
| Date of Release                   | 09/15/2023                    |
| Type of Release                   | Crude Oil and Produced Water  |
| Source of Release                 | Equipment Failure             |
| Volume Released – Produced Water  | 5 bbls                        |
| Volume Recovered – Produced Water | 4 bbls                        |
| Volume Released – Crude Oil       | 2 bbls                        |
| Volume Recovered – Crude Oil      | 2 bbls                        |
| Affected Area – Damp Soil         | Pad - Approximately 267 sqft. |
| Site Location Map                 | Attached                      |

## Cultural Properties Protection:

An ARMS inspection and survey was not required as the release occurred on a previously disturbed area.

**SITE CHARACTERIZATION AND CLOSURE CRITERIA****Depth to Groundwater/Wellhead Protection:**

| Data Source | Well Number   | Data Date | Depth (ft.) |
|-------------|---------------|-----------|-------------|
| NM OSE      | L-14650 POD 3 | 9/17/2022 | 45'         |
| NM OSE      | L-14561 POD 1 | 5/18/2023 | 95'         |

A search of the groundwater well databases maintained by the New Mexico Office of the State Engineer (NMOSE) and the United States Geological Survey (USGS) was conducted to determine if any registered groundwater wells are located within a  $\frac{1}{2}$  mile of the release site. The search revealed that Two (2) wells occurred in the databases that meet the NMOCDC criteria for the age of data, the distance of the data point well from the release point, and a data point well having a diagram of construction.

**General Site Characterization:**

| Site Assessment          |                   |
|--------------------------|-------------------|
| Karst Potential          | Low               |
| Distance to Watercourse  | Overlying Wetland |
| Within 100 yr Floodplain | No                |
| Pasture Impact           | No                |

A risk-based site assessment/characterization was performed following the New Mexico Oil Conservation Division (NMOCDC) Rule (Title 19 Chapter 15 Part 29) for releases on oil and gas development and production in New Mexico (effective August 14, 2018). To summarize the site assessment/characterization evaluation, the affected area has Low potential for cave and karst, and no other receptors (residence, school, hospital, institution, church, mining, municipal, or other ordinance boundaries) were located within the regulatorily promulgated distances from the site.

| Soil Assessment                 |                           |
|---------------------------------|---------------------------|
| Soil Series                     | Kimbrough   Kimbrough-Lea |
| Fragile Soil Interpretive Class | Fragile                   |
| Erodibility Value               | 0.32                      |
| Wind Erodibility Group          | 5                         |
| Badland Soils                   | No                        |
| Gypsum Soils                    | No                        |
| Representative Slope            | 0.01                      |
| Depth to Restrictive Feature    | 25 cm                     |
| Depth to Bedrock                | >200 cm                   |
| Severe Wildland Burn            | No                        |

A soil assessment/characterization was performed following the New Mexico State Land Office Environmental Compliance Office (ECO) Spill and Release Reporting Guidelines (Part 2 Letter D). To summarize, the affected area is classified as a sensitive soil.

**Closure Criteria:**

| On-Site & Off-Site 4ft bgs   Recommended Remedial Action Levels (RRALs) |           |
|---|-----------|
| Chlorides   | 600 mg/kg |
| TPH (GRO and DRO and MRO)   | 100 mg/kg |
| TPH (GRO and DRO)   | NA        |
| BTEX  | 50 mg/kg  |
| Benzene   | 10 mg/kg  |

A reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH was applied to the entire area impacted by the release.

**INITIAL ASSESSMENT AND REMEDIATION ACTIVITIES****Initial Sample Activities:**

| <b>Delineation Summary</b> |                         |
|----------------------------|-------------------------|
| Delineation Dates          | 11/02/2023 - 03/07/2024 |
| Depths Sampled             | 0' - 7'                 |
| Delineation Map            | Attached                |
| Laboratory Results         | Table 1                 |

All soil samples were placed into laboratory-supplied glassware, labeled, and maintained on ice until delivery to an NMOCD-approved laboratory (Cardinal Laboratories of Hobbs, NM) for the analysis of chloride using Method SM4500 Cl-B, Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by EPA Method 8021 B and Total Petroleum Hydrocarbon (TPH) constituents the by EPA 8015M.

**Confirmation Activities:**

| <b>Remediation Summary</b>   |                         |
|--|-------------------------|
| Remediation Dates  | 05/07/2024 & 05/31/2024 |
| Workplan Approval  | At Risk                 |
| Liner Variance Request   | None                    |
| Deferral Request   | None                    |
| Depths Excavated   | 5' - 6.5'               |
| Area Represented by the required 5-point Confirmation Samples – Floors and Walls | 200 sqft.               |
| Total Volume of Excavated Soil   | 312 yards               |
| Remediation Map  | Attached                |
| Laboratory Results   | Table 2                 |

Impacted soil within the release margins was excavated and temporarily stockpiled on-site on a 6-mil plastic sheeting, pending final disposition. Unless a Variance Request has been approved, all Floor and On-Site Walls of the excavated area were advanced until laboratory analytical results from confirmation soil samples indicate Chloride, Benzene, BTEX, and TPH concentrations are below the RRAL NMOCD Closure Criteria listed in the Table above, and all Off-Site Walls were advanced to meet reclamation standards. Confirmation soil samples (five-point composites representing no more than 200 sqft. of the excavated area) were collected from the floor and sidewalls.

Upon receiving laboratory analytical data showing that confirmation soil samples from the excavated areas yield results below the selected NMOCD Table 1 Closure Criteria; the impacted soil was transported under manifest to an NMOCD-approved disposal facility. Upon approval, the excavated area will be backfilled with locally sourced, non-impacted "like" material.

**SITE RECLAMATION AND RESTORATION**

Areas affected by the release and the associated remediation activities will be restored to a condition that existed before the release to the extent practicable. The affected area will be contoured and/or compacted to provide erosion control, stability, and preservation of surface water flow.

Affected areas disturbed by remediation on native land, not on production pads and/or lease roads, will be reseeded with a prescribed NMSLO seed mixture, as defined in SLO Seed Mix Version 1-200808 for Coarse (CS) Sites, during the first favorable growing season following the closure of the site. Reclamation on State Trust Land will also be documented and monitored for successful vegetation growth and invasive/noxious weed populations. Final reclamation of the well pad shall take place in accordance with 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.

**REQUEST FOR REMEDIATION CLOSURE**

| Supporting Documentation             |          |
|--------------------------------------|----------|
| Delineation and Remediation Maps     | Attached |
| Depth to Groundwater Maps and Source | Attached |
| US NWI Map                           | Attached |
| FEMA Flood Hazard Map                | Attached |
| USDA Soil Survey                     | Attached |
| SLO Seed Mix                         | Attached |
| Site Photography                     | Attached |
| Laboratory Analytics with COCs       | Attached |

The site has been remediated to meet the standards of Table I of 19.15.29.12 NMAC; therefore, Trinity Oilfield Services respectfully requests that the New Mexico Oil Conservation Division grant remediation closure approval for the referenced release.

Sincerely,



Dan Dunkelberg  
Project Manager



Cynthia Jordan  
Project Scientist



**TABLE 1**  
**CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL**

**CROSS TIMBERS ENERGY, LLC**  
**NORTH VACUUM ABO UNIT #246**  
**LEA COUNTY, NEW MEXICO**  
**NMOCD REFERENCE #: NAPP2326134968**



| SAMPLE LOCATION   | SAMPLE DEPTH (BGS) | SAMPLE DATE | VERTICAL/ HORIZONTAL | OFF-SITE/ ON-SITE | SAMPLE TYPE | SOIL STATUS | CHLORIDE (mg/Kg) | TPH C6-C36 (mg/Kg) | GRO+ DRO (mg/kg) | GRO C6-C10 (mg/Kg) | DRO C10-C28 (mg/Kg) | MRO C28-C36 (mg/Kg) | TOTAL BTEX (mg/Kg) | BENZENE (mg/Kg) |
|---|--------------------|-------------|----------------------|-------------------|-------------|-------------|------------------|--------------------|------------------|--------------------|---------------------|---------------------|--------------------|-----------------|
| <b>On-Site, &amp; Deeper than 4' Pasture</b>                                    |                    |             |                      |                   |             |             | <b>600</b>       | <b>100</b>         | <b>NE</b>        | <b>NE</b>          | <b>NE</b>           | <b>NE</b>           | <b>50</b>          | <b>10</b>       |
| <b>Delineation Special Circumstance, NMOCD Delineation Limits Pasture to 4'</b> |                    |             |                      |                   |             |             | <b>600</b>       | <b>100</b>         | <b>NE</b>        | <b>NE</b>          | <b>NE</b>           | <b>NE</b>           | <b>50</b>          | <b>10</b>       |
| <b>Vertical Delineation</b>   |                    |             |                      |                   |             |             |                  |                    |                  |                    |                     |                     |                    |                 |
| DV-001.0-00.0-S   | 0                  | 11/2/2023   | Vertical             | On-Site           | Grab        | In-Situ     | 160.0            | 45,680.0           | 36,160.0         | 1,160.0            | 35,000.0            | 9,520.0             | 56.7               | 0.79            |
| DV-001.0-01.0-S   | 1                  | 11/2/2023   | Vertical             | On-Site           | Grab        | In-Situ     | 1,720.0          | <10.0              | <10.0            | <10.0              | <10.0               | <10.0               | <10.0              | <10.0           |
| DV-001.0-03.0-S   | 3                  | 11/2/2023   | Vertical             | On-Site           | Grab        | In-Situ     | 1,580.0          | 123.4              | 65.9             | <10.0              | 65.9                | 57.5                | <10.0              | <10.0           |
| DV-001.0-04.0-S   | 4                  | 3/7/2024    | Vertical             | On-Site           | Grab        | In-Situ     | 1,100.0          | <10.0              | <10.0            | <10.0              | <10.0               | <10.0               | <10.0              | <10.0           |
| DV-001.0-06.0-S   | 6                  | 3/7/2024    | Vertical             | On-Site           | Grab        | In-Situ     | 480.0            | <10.0              | <10.0            | <10.0              | <10.0               | <10.0               | <10.0              | <10.0           |
| DV-001.0-07.0-S   | 7                  | 3/7/2024    | Vertical             | On-Site           | Grab        | In-Situ     | 144.0            | <10.0              | <10.0            | <10.0              | <10.0               | <10.0               | <10.0              | <10.0           |
| <b>Horizontal Delineation</b>   |                    |             |                      |                   |             |             |                  |                    |                  |                    |                     |                     |                    |                 |
| DH-001.0-01.0-S   | 1                  | 11/2/2023   | Horizontal           | On-Site           | Grab        | In-Situ     | 192.0            | 29.4               | <10.0            | <10.0              | <10.0               | 29.4                | <10.0              | <10.0           |
| DH-002.0-01.0-S   | 1                  | 11/2/2023   | Horizontal           | On-Site           | Grab        | In-Situ     | 128.0            | <10.0              | <10.0            | <10.0              | <10.0               | <10.0               | <10.0              | <10.0           |
| DH-003.0-01.0-S   | 1                  | 11/2/2023   | Horizontal           | On-Site           | Grab        | In-Situ     | 16.0             | 1,277.0            | 676.0            | <10.0              | 676.0               | 601.0               | <10.0              | <10.0           |
| DH-003.1-01.0-S   | 1                  | 11/21/2023  | Horizontal           | On-Site           | Grab        | In-Situ     | 32.0             | <10.0              | <10.0            | <10.0              | <10.0               | <10.0               | <10.0              | <10.0           |
| DH-004.0-01.0-S   | 1                  | 11/2/2023   | Horizontal           | On-Site           | Grab        | In-Situ     | 32.0             | 18,840.0           | 13,000.0         | <10.0              | 13,000.0            | 5,840.0             | <10.0              | <10.0           |
| DH-004.1-01.0-S   | 1                  | 11/21/2023  | Horizontal           | On-Site           | Grab        | In-Situ     | 64.0             | <10.0              | <10.0            | <10.0              | <10.0               | <10.0               | <10.0              | <10.0           |

**TABLE 2**  
**CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL**

**CROSS TIMBERS ENERGY, LLC**  
**NORTH VACUUM ABO UNIT #246**  
**LEA COUNTY, NEW MEXICO**  
**NMOCD REFERENCE #: NAPP2326134968**




| SAMPLE LOCATION                           | SAMPLE DEPTH (BGS) | SAMPLE DATE | FLOOR/WALL | OFF-SITE/ON-SITE | SAMPLE TYPE | SOIL STATUS | CHLORIDE (mg/Kg) | TPH C6-C36 (mg/Kg) | GRO+ DRO (mg/kg) | GRO C6-C10 (mg/Kg) | DRO C10-C28 (mg/Kg) | MRO C28-C36 (mg/Kg) | TOTAL BTEX (mg/Kg) | BENZENE (mg/Kg) |
|---|--------------------|-------------|------------|------------------|-------------|-------------|------------------|--------------------|------------------|--------------------|---------------------|---------------------|--------------------|-----------------|
| <b>NMOCD Closure Limits Pad</b>           |                    |             |            |                  |             |             | <b>600</b>       | <b>100</b>         | <b>NE</b>        | <b>NE</b>          | <b>NE</b>           | <b>NE</b>           | <b>50</b>          | <b>10</b>       |
| <b>NMOCD Closure Limits Pasture to 4'</b> |                    |             |            |                  |             |             | <b>600</b>       | <b>100</b>         | <b>NE</b>        | <b>NE</b>          | <b>NE</b>           | <b>NE</b>           | <b>50</b>          | <b>10</b>       |
| <b>Remediation Floors</b>                 |                    |             |            |                  |             |             |                  |                    |                  |                    |                     |                     |                    |                 |
| CF-001.0-05.0-S                           | 5                  | 5/7/2024    | Floor      | On-Site          | Composite   | In-Situ     | 288.0            | <10.0              | <10.0            | <10.0              | <10.0               | <10.0               | <.300              | <0.50           |
| CF-002.0-05.0-S                           | 5                  | 5/7/2024    | Floor      | On-Site          | Composite   | In-Situ     | 272.0            | <10.0              | <10.0            | <10.0              | <10.0               | <10.0               | <.300              | <0.50           |
| CF-003.0-05.0-S                           | 5                  | 5/7/2024    | Floor      | On-Site          | Composite   | In-Situ     | 288.0            | <10.0              | <10.0            | <10.0              | <10.0               | <10.0               | <.300              | <0.50           |
| CF-004.0-06.0-S                           | 6                  | 5/7/2024    | Floor      | On-Site          | Composite   | In-Situ     | 448.0            | <10.0              | <10.0            | <10.0              | <10.0               | <10.0               | <.300              | <0.50           |
| CF-005.0-06.0-S                           | 6                  | 5/7/2024    | Floor      | On-Site          | Composite   | Excavated   | 608.0            | <10.0              | <10.0            | <10.0              | <10.0               | <10.0               | <.300              | <0.50           |
| CF-005.0-06.5-S                           | 6.5                | 5/31/2024   | Floor      | On-Site          | Composite   | In-Situ     | 240.0            | <10.0              | <10.0            | <10.0              | <10.0               | <10.0               | <.300              | <0.50           |
| <b>Remediation Walls</b>                  |                    |             |            |                  |             |             |                  |                    |                  |                    |                     |                     |                    |                 |
| CW-001.0-05.0-S                           | 5                  | 5/7/2024    | Wall       | On-Site          | Composite   | In-Situ     | 304.0            | <10.0              | <10.0            | <10.0              | <10.0               | <10.0               | <.300              | <0.50           |
| CW-002.0-06.0-S                           | 6                  | 5/7/2024    | Wall       | On-Site          | Composite   | In-Situ     | 576.0            | <10.0              | <10.0            | <10.0              | <10.0               | <10.0               | <.300              | <0.50           |
| CW-003.0-06.0-S                           | 6                  | 5/7/2024    | Wall       | On-Site          | Composite   | In-Situ     | 528.0            | <10.0              | <10.0            | <10.0              | <10.0               | <10.0               | <.300              | <0.50           |
| CW-004.0-05.0-S                           | 5                  | 5/7/2024    | Wall       | On-Site          | Composite   | In-Situ     | 160.0            | <10.0              | <10.0            | <10.0              | <10.0               | <10.0               | <.300              | <0.50           |







Maxar, Microsoft

|   |                        |                |                |                          |                    |          |         |  |           |  |   |
|---|------------------------|----------------|----------------|--------------------------|--------------------|----------|---------|--|-----------|--|---|
| <p><b>Legend:</b></p> <table><tr><td>● Vertical Delineation</td><td>Release Area</td><td>Infrastructure</td></tr><tr><td>● Horizontal Delineation</td><td>Above-Ground Lines</td><td>Wellhead</td></tr><tr><td>— Steel</td><td></td><td>Pump Jack</td></tr></table> | ● Vertical Delineation | Release Area   | Infrastructure | ● Horizontal Delineation | Above-Ground Lines | Wellhead | — Steel |  | Pump Jack | <p><b>Delineation Map</b><br/><b>Cross Timbers Energy, LLC</b><br/><b>North Vacuum Abo Unit #246</b><br/><b>32.815127, -103.511931</b><br/><b>Lea County, New Mexico</b><br/><b>NMOCD Reference # NAPP2326134968</b></p> | <p>0 20 40 80 Feet</p> <p> <b>TRINITY</b><br/>OILFIELD SERVICES</p> <p>N</p> |
| ● Vertical Delineation  | Release Area           | Infrastructure |                |                          |                    |          |         |  |           |  |   |
| ● Horizontal Delineation  | Above-Ground Lines     | Wellhead       |                |                          |                    |          |         |  |           |  |   |
| — Steel   |                        | Pump Jack      |                |                          |                    |          |         |  |           |  |   |



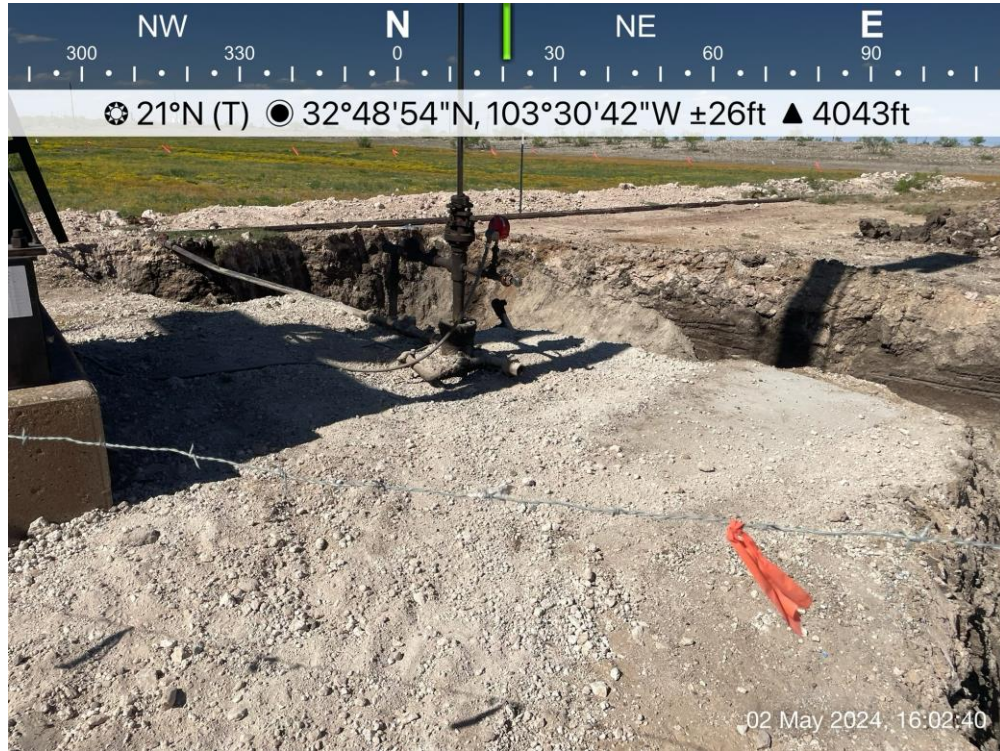
|   |   |  |
|---|---|--|
| <p><b>Legend:</b></p> <p>Remediation Wall</p> <p>Remediation Floor</p> <p>Excavation Area</p> <p>Above-Ground Lines</p> <p>Steel</p> <p>Infrastructure</p> <p>Wellhead</p> <p>Pump Jack</p> | <p><b>Remediation Map</b></p> <p><b>Cross Timbers Energy, LLC</b></p> <p><b>North Vacuum Abo Unit #246</b></p> <p><b>32.815127, -103.511931</b></p> <p><b>Lea County, New Mexico</b></p> <p><b>NMOCD Reference # NAPP2326134968</b></p> | <p>0 20 40 80 Feet</p> <p></p> <p></p> |
|---|---|--|





## Excavation

Pad:



Pad:

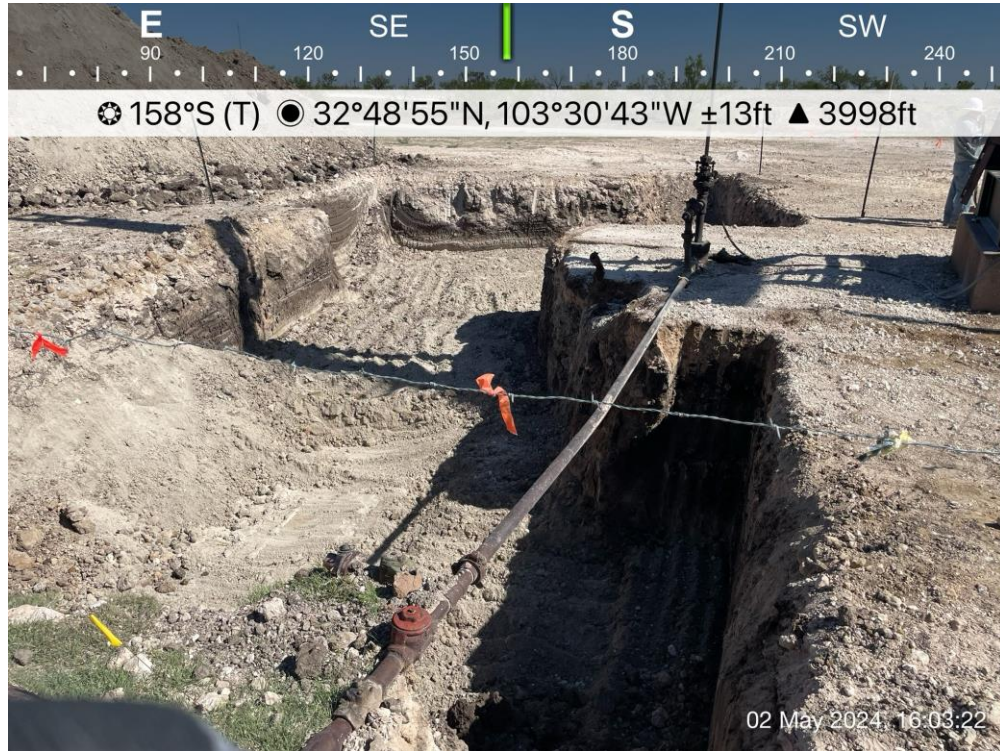






## Excavation

Pad:

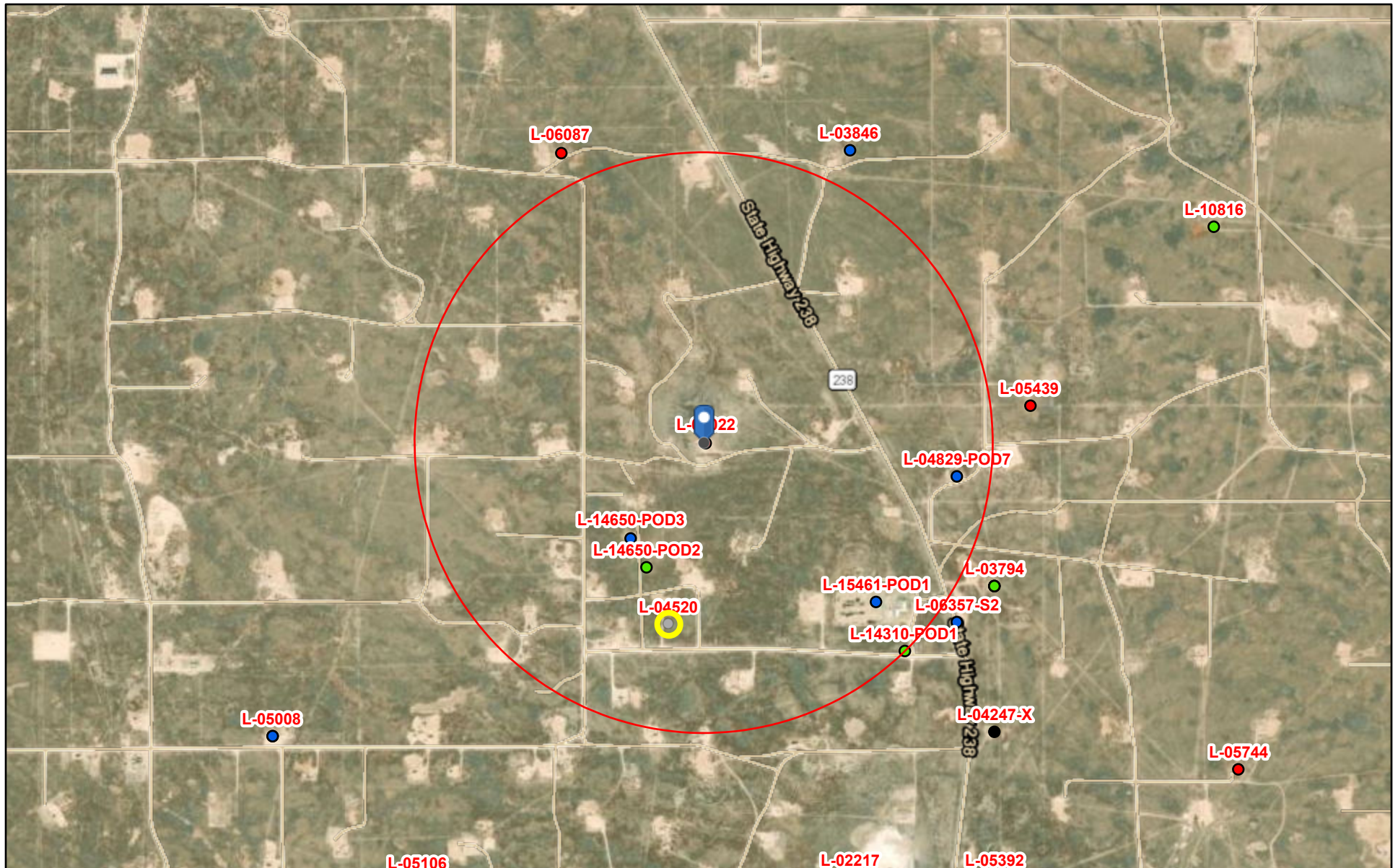


Pad:





## NAPP2326134968 | NORTH VACUUM ABO UNIT #246



11/9/2023, 9:02:38 AM

GIS WATERS PODs

● Active

● Pending

● Inactive

● Plugged

●

1:18,056

0 0.13 0.25 0.5 mi  
0 0.2 0.4 0.8 km

Esri, HERE, IPC, Esri, HERE, Garmin, IPC, Maxar

Online web user

This is an unofficial map from the OSE's online application.





NAPP2326134968 | NORTH VACUUM ABO UNIT #246



November 8, 2023

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.





NAPP2326134968 | NORTH VACUUM ABO UNIT #246



June 26, 2024

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

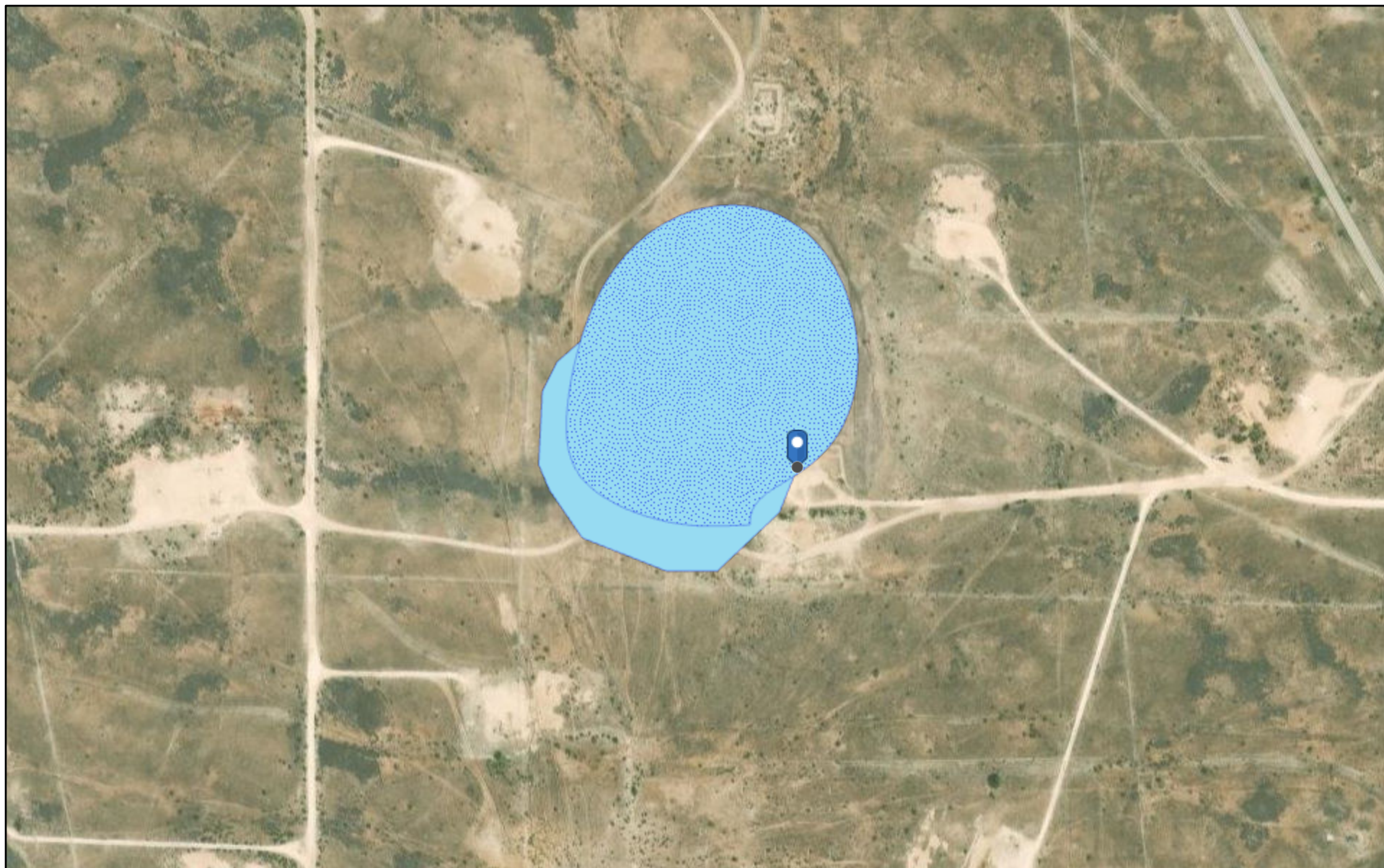
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

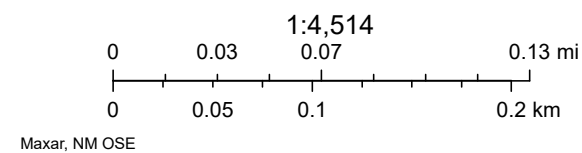


# NAPP2326134968 | NORTH VACUUM ABO UNIT #246



6/26/2024, 3:29:59 PM

-  OSW Water Bodys
-  OSE Probable Playas





# National Flood Hazard Layer FIRMette



103°31'2"W 32°49'10"N



1:6,000

103°30'24"W 32°48'39"N

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

|                             |  |   |
|-----------------------------|--|---|
| SPECIAL FLOOD HAZARD AREAS  |  | Without Base Flood Elevation (BFE)<br>Zone A, V, A99  |
|                             |  | With BFE or Depth Zone AE, AO, AH, VE, AR   |
|                             |  | Regulatory Floodway   |
| OTHER AREAS OF FLOOD HAZARD |  | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X |
|                             |  | Future Conditions 1% Annual Chance Flood Hazard Zone X  |
|                             |  | Area with Reduced Flood Risk due to Levee. See Notes. Zone X  |
|                             |  | Area with Flood Risk due to Levee Zone D  |
| OTHER AREAS                 |  | NO SCREEN Area of Minimal Flood Hazard Zone X   |
|                             |  | Effective LOMRs   |
|                             |  | Area of Undetermined Flood Hazard Zone D  |
| GENERAL STRUCTURES          |  | Channel, Culvert, or Storm Sewer  |
|                             |  | Levee, Dike, or Floodwall   |
| OTHER FEATURES              |  | 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation   |
|                             |  | 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation   |
|                             |  | Coastal Transect  |
|                             |  | Base Flood Elevation Line (BFE)   |
|                             |  | Limit of Study  |
|                             |  | Jurisdiction Boundary   |
|                             |  | Coastal Transect Baseline   |
|                             |  | Profile Baseline  |
| MAP PANELS                  |  | Digital Data Available  |
|                             |  | No Digital Data Available   |
|                             |  | Unmapped  |



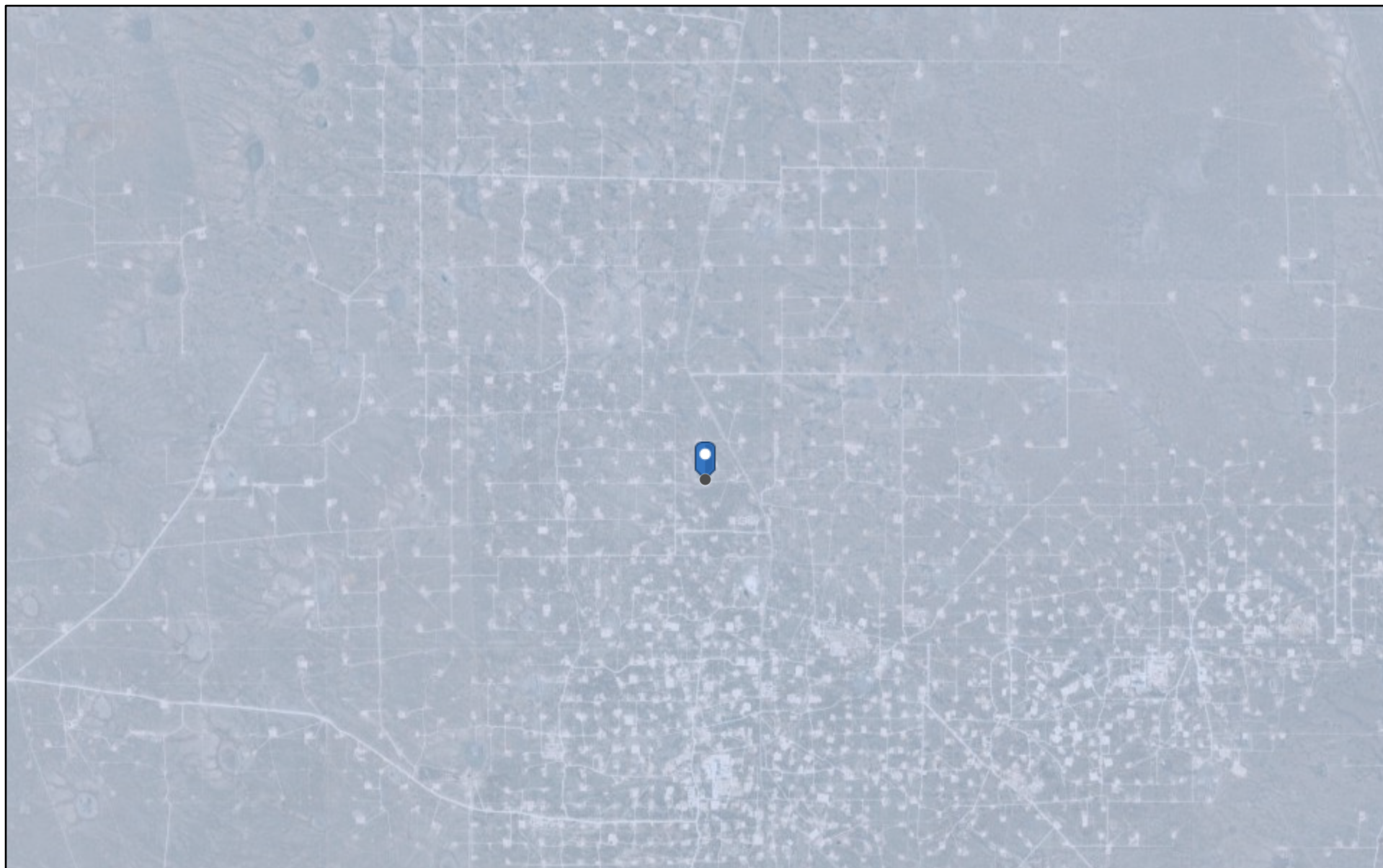
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **11/8/2023 at 5:51 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

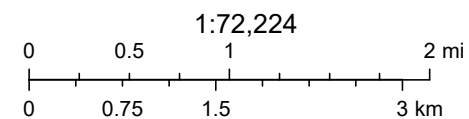
# NAPP2326134968 | NORTH VACUUM ABO UNIT #246



11/8/2023, 3:10:39 PM

Karst Occurrence Potential

Low



BLM, OCD, New Mexico Tech, Earthstar Geographics





United States  
Department of  
Agriculture

NRCS

Natural  
Resources  
Conservation  
Service

A product of the National  
Cooperative Soil Survey,  
a joint effort of the United  
States Department of  
Agriculture and other  
Federal agencies, State  
agencies including the  
Agricultural Experiment  
Stations, and local  
participants

# Custom Soil Resource Report for Lea County, New Mexico

NAPP2326134968 | NORTH  
VACUUM ABO UNIT #246



July 3, 2024

# Preface

---

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist ([http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\\_053951](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951)).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.



# Contents

---

**Preface**..... 2

**How Soil Surveys Are Made**.....5

**Soil Map**..... 8

    Soil Map.....9

    Legend.....10

    Map Unit Legend..... 11

    Map Unit Descriptions.....11

        Lea County, New Mexico..... 13

            KO—Kimbrough gravelly loam, dry, 0 to 3 percent slopes..... 13

            KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes..... 14

**Soil Information for All Uses**..... 17

    Suitabilities and Limitations for Use.....17

        Soil Health.....17

            Fragile Soil Index.....17

    Soil Properties and Qualities..... 26

        Soil Chemical Properties.....26

            Gypsum.....26

        Soil Erosion Factors.....30

            K Factor, Whole Soil.....30

            Wind Erodibility Group.....35

            Wind Erodibility Index.....39

        Soil Qualities and Features.....43

            Depth to Bedrock.....43

            Depth to Any Soil Restrictive Layer.....48

            Representative Slope..... 52

**References**.....57

## How Soil Surveys Are Made

---

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

## Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

## Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

## Soil Map

---

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.


# Custom Soil Resource Report Soil Map



## Custom Soil Resource Report

## MAP LEGEND

## Area of Interest (AOI)

 Area of Interest (AOI)


## Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points

## Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water


 Perennial Water

 Rock Outcrop


 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole

 Slide or Slip


 Sodic Spot


 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

## Water Features

 Streams and Canals


## Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

## Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Custom Soil Resource Report

## Map Unit Legend

| Map Unit Symbol                    | Map Unit Name                                       | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------------|----------------|
| KO                                 | Kimbrough gravelly loam, dry, 0 to 3 percent slopes | 1.6          | 65.7%          |
| KU                                 | Kimbrough-Lea complex, dry, 0 to 3 percent slopes   | 0.8          | 34.3%          |
| <b>Totals for Area of Interest</b> |   | <b>2.4</b>   | <b>100.0%</b>  |

## Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,



## Custom Soil Resource Report

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

## Custom Soil Resource Report

## Lea County, New Mexico

## KO—Kimbrough gravelly loam, dry, 0 to 3 percent slopes

## Map Unit Setting

*National map unit symbol:* 2tw43*Elevation:* 2,500 to 4,800 feet*Mean annual precipitation:* 14 to 16 inches*Mean annual air temperature:* 57 to 63 degrees F*Frost-free period:* 180 to 220 days*Farmland classification:* Not prime farmland

## Map Unit Composition

*Kimbrough, dry, and similar soils:* 80 percent*Minor components:* 20 percent*Estimates are based on observations, descriptions, and transects of the mapunit.*

## Description of Kimbrough, Dry

## Setting

*Landform:* Playa rims, plains*Down-slope shape:* Convex, linear*Across-slope shape:* Concave, linear*Parent material:* Loamy eolian deposits derived from sedimentary rock

## Typical profile

*A - 0 to 3 inches:* gravelly loam*Bw - 3 to 10 inches:* loam*Bkkm1 - 10 to 16 inches:* cemented material*Bkkm2 - 16 to 80 inches:* cemented material

## Properties and qualities

*Slope:* 0 to 3 percent*Depth to restrictive feature:* 4 to 18 inches to petrocalcic*Drainage class:* Well drained*Runoff class:* Very high*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.01 in/hr)*Depth to water table:* More than 80 inches*Frequency of flooding:* None*Frequency of ponding:* None*Calcium carbonate, maximum content:* 95 percent*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*Sodium adsorption ratio, maximum:* 1.0*Available water supply, 0 to 60 inches:* Very low (about 1.4 inches)

## Interpretive groups

*Land capability classification (irrigated):* None specified*Land capability classification (nonirrigated):* 7s*Hydrologic Soil Group:* D*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ*Hydric soil rating:* No

## Custom Soil Resource Report

**Minor Components****Eunice**

*Percent of map unit:* 10 percent  
*Landform:* Plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Convex  
*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ  
*Hydric soil rating:* No

**Spraberry**

*Percent of map unit:* 6 percent  
*Landform:* Playa rims, plains  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Linear  
*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ  
*Hydric soil rating:* No

**Kenhill**

*Percent of map unit:* 4 percent  
*Landform:* Plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* R077DY038TX - Clay Loam 12-17" PZ  
*Hydric soil rating:* No

**KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes****Map Unit Setting**

*National map unit symbol:* 2tw46  
*Elevation:* 2,500 to 4,800 feet  
*Mean annual precipitation:* 14 to 16 inches  
*Mean annual air temperature:* 57 to 63 degrees F  
*Frost-free period:* 180 to 220 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Kimbrough and similar soils:* 45 percent  
*Lea and similar soils:* 25 percent  
*Minor components:* 30 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Kimbrough****Setting**

*Landform:* Playa rims, plains  
*Down-slope shape:* Convex, linear  
*Across-slope shape:* Concave, linear  
*Parent material:* Loamy eolian deposits derived from sedimentary rock

## Custom Soil Resource Report

**Typical profile**

*A - 0 to 3 inches:* gravelly loam  
*Bw - 3 to 10 inches:* loam  
*Bkkm1 - 10 to 16 inches:* cemented material  
*Bkkm2 - 16 to 80 inches:* cemented material

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* 4 to 18 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.01 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 95 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 1.0  
*Available water supply, 0 to 60 inches:* Very low (about 1.4 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* D  
*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ  
*Hydric soil rating:* No

**Description of Lea****Setting**

*Landform:* Plains  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

**Typical profile**

*A - 0 to 10 inches:* loam  
*Bk - 10 to 18 inches:* loam  
*Bkk - 18 to 26 inches:* gravelly fine sandy loam  
*Bkkm - 26 to 80 inches:* cemented material

**Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* 22 to 30 inches to petrocalcic  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 90 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 3.0

## Custom Soil Resource Report

Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

**Interpretive groups**

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R077DY047TX - Sandy Loam 12-17" PZ

Hydric soil rating: No

**Minor Components****Kenhill**

Percent of map unit: 12 percent

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R077DY038TX - Clay Loam 12-17" PZ

Hydric soil rating: No

**Douro**

Percent of map unit: 12 percent

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R077DY047TX - Sandy Loam 12-17" PZ

Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

**Spraberry**

Percent of map unit: 6 percent

Landform: Playa rims, plains

Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

# Soil Information for All Uses

---

## Suitabilities and Limitations for Use

The Suitabilities and Limitations for Use section includes various soil interpretations displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each interpretation.

## Soil Health

Soil health interpretations are designed to be used as tools for evaluating and managing a soil's capacity to function as a vital living ecosystem that sustains plants, animals, and humans. Example interpretations include compaction, surface sealing, carbon sequestration, resistance and resilience, management systems and practices, and cover crops.

## Fragile Soil Index

SOH - Soil Health

Soils can be rated based on their susceptibility to degradation in the "Fragile Soil Index" interpretation. Fragile soils are those that are most vulnerable to degradation. In other words, they can be easily degraded they have a low resistance to degradation processes. They tend to be highly susceptible to erosion and can have a low capacity to recover after degradation has occurred (low resilience). Fragile soils are generally characterized by a low content of organic matter, low aggregate stability, and weak soil structure. They are generally located on sloping ground, have sparse plant cover, and tend to be in arid or semiarid regions. The index can be used for conservation and watershed planning to assist in identifying soils and areas highly vulnerable to degradation.

Depending on inherent soil characteristics and the climate, soils can vary from highly resistant, or stable, to vulnerable and extremely sensitive to degradation. Under stress, fragile soils can degrade to a new altered state, which may be less favorable or unfavorable for plant growth and less capable of performing soil functions. To assess the fragility of the soil, indicators of vulnerability to degradation

## Custom Soil Resource Report

processes are used. They include organic matter, soil structure, rooting depth, vegetative cover, slope, and aridity.

The organic matter content indicates the capacity of the soil to resist and/or recover from degradation processes. Organic matter improves the soil pore structure, increases water infiltration, and reduces soil compaction and soil erosion. Soil structure indicates the capacity of the soil to resist degradation from accelerated water erosion (by increasing the amount of infiltration). Pore structure is the most important aspect of soil structure as pores provide habitat for organism. Shallow soils are more vulnerable to degradation processes because they have limited rooting depth and have a reduced amount of material from which to form new soil. As erosion removes the upper soil profile, productivity will decline if the subsoil is limiting for crop growth. Vegetative cover is very important as uncovered soil is most vulnerable to the processes of soil erosion, both by wind and water. Slope (a measure of the steepness or the degree of inclination) indicates the degree of vulnerability to erosion and mass movement. Aridity is defined by the shortage of moisture. Lack of water is a main factor limiting biological processes and the ability of the soil to resist and/or recover from degradation.

Soils are placed into interpretive classes based on their index rating, which ranges from 0 to 1. An index rating of 1 is the most fragile, while a rating of zero is the least fragile. Interpretative classes are as follows:

Not Fragile (index rating less than or equal to 0.009) These soils have a very high potential to resist degradation and be highly resilient. They are highly structured with an organic matter content greater than 5.7%, are nearly level, are deep or very deep, have greater than 85% vegetative cover, and are in a climate that is wet or very wet.

Slightly Fragile (index rating less than 0.009 and less than or equal to 0.209) These soils have a high potential to resist degradation and be resilient. They are:

- Poorly structured to weakly structured soils that have an extremely low to moderate content of organic matter, are very deep, have high vegetative cover, occur on nearly level ground, and are in wet or very wet climates;
- Highly structured soils that have a very high content of organic matter, are very shallow to moderately deep, have high vegetative cover, occur on nearly level ground, and are in wet or very wet climates;
- Highly structured soils that have a very high content of organic matter, are very deep, have low to moderately high vegetative cover, occur on nearly level ground, and are in wet or very wet climates;
- Highly structured soils that have a very high content of organic matter, are very deep, have high vegetative cover; are on slopes greater than 3%, and are in wet or very wet climates; or
- Highly structured soils that have a very high content of organic matter, are very deep, have high vegetative cover; occur on nearly level ground, and in semi-dry to mildly wet climates;

## Custom Soil Resource Report

Moderately Fragile (index rating greater than 0.209 and less than or equal to 0.409) These soils have a moderate potential to resist degradation and be moderately resilient. They are:

— Highly structured soils that have a very high content of organic matter, are very shallow, have high vegetative cover, occur in nearly level to moderately sloping areas, and are in semi-dry climates;

— Poorly structured soils that have an extremely low content of organic matter, are deep, have low vegetative cover, occur in nearly level areas, and are in wet or very wet climates;

— Poorly structured soils that have an extremely low content of organic matter, occur on gentle to very steep slopes, have high vegetative cover, and are in wet or very wet climates;

— Weakly structured soils that have a very low content of organic matter, are deep, occur in nearly level to gently sloping areas, have high vegetative cover, and are in semi-dry climates; or

— Weakly structured soils that have a very low content of organic matter, are very shallow to very deep, occur in nearly level to strongly sloping areas, have high vegetative cover, and are in mildly wet climates.

Fragile (index rating greater than 0.409 and less than or equal to 0.609) These soils have a low potential to resist degradation and low resilience. They are:

— Well structured soils that have a low content of organic matter, are shallow to very deep, have moderate to moderately high vegetative cover, occur on steep slopes, and are in dry climates;

— Well structured soils that have a low content of organic matter, are shallow to very deep, have a low vegetative cover, occur in nearly level to gently sloping areas, and are in dry climates;

— Well structured soils that have a low content of organic matter, are deep, have low vegetative cover, occur on nearly level to very steep slopes, and are in a semi-dry climate;

— Moderately structured soils that have a very low content of organic matter, are deep, have moderately high vegetative cover, occur on moderately steep to very steep slopes, and are in semi-dry climates; or

— Weakly structured soils that have a low content of organic matter, occur on moderately steep to very steep slopes, have low vegetative cover, and are in wet or very wet climates.

Very Fragile (index rating greater than 0.609 and less than or equal to 0.809) These soils have a very low potential to resist degradation and very low resilience. They are:



## Custom Soil Resource Report

— Weakly structured soils that have an extremely low content of organic matter, are deep, have low vegetative cover, occur on nearly level to very steep slopes, and are in dry climates;

— Weakly structured soils that have an extremely low content of organic matter, are shallow to very deep, have low vegetative cover, occur on nearly level to very steep slopes, and are in very dry climates; or

— Poorly structured soils that have an extremely low content of organic matter, are very shallow, have no vegetative cover, occur on steep slopes, and are in mildly wet to wet climates.

Extremely Fragile (index rating greater than 0.809 and less than or equal to 1.0)  
These soils can have no potential to resist degradation and no resilience. They are:

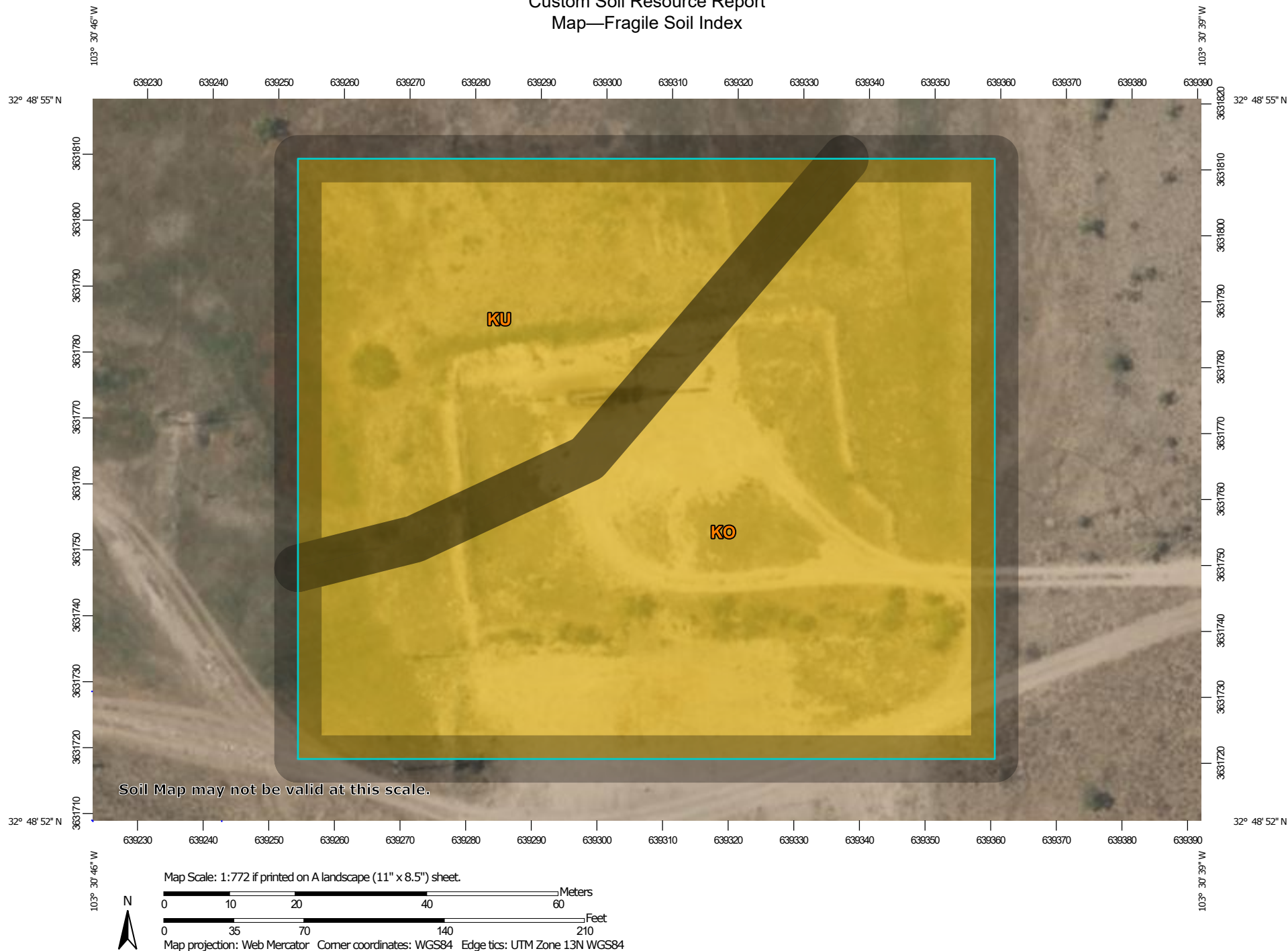
— Poorly structured soils that have an extremely low content of organic matter, are very shallow, have low vegetative cover, occur on very steep slopes, and are in dry or very dry climates;

— Weakly structured soils that have a very low content of organic matter, are nearly level to very deep, have low vegetative cover, occur on very steep slopes, and are in dry climates; or

— Very shallow soils on steep slopes.

The interpretive rating is based on soils that occur in the dominant land use for the map unit component and may not represent soils that occur in site-specific land uses.


Custom Soil Resource Report  
Map—Fragile Soil Index



## Custom Soil Resource Report








## MAP LEGEND

## Area of Interest (AOI)

 Area of Interest (AOI)

## Soils





## Soil Rating Polygons


-  Extremely fragile
-  Highly fragile
-  Fragile
-  Moderately fragile
-  Slightly fragile
-  Not fragile
-  Not rated or not available

## Soil Rating Lines


-  Extremely fragile
-  Highly fragile
-  Fragile
-  Moderately fragile
-  Slightly fragile
-  Not fragile
-  Not rated or not available

## Soil Rating Points





-  Extremely fragile
-  Highly fragile
-  Fragile
-  Moderately fragile
-  Slightly fragile
-  Not fragile

 Not rated or not available


## Water Features

 Streams and Canals

## Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

## Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Custom Soil Resource Report

## Tables—Fragile Soil Index

| Map unit symbol | Map unit name                                       | Rating  | Component name (percent) | Rating reasons (numeric values)         | Acres in AOI | Percent of AOI |
|-----------------|---|---------|--------------------------|---|--------------|----------------|
| KO              | Kimbrough gravelly loam, dry, 0 to 3 percent slopes | Fragile | Kimbrough, dry (80%)     | Poor structure (1.00)                   | 1.6          | 65.7%          |
|                 |   |         |                          | Dry (0.70)                              |              |                |
|                 |   |         |                          | Low organic matter (0.69)               |              |                |
|                 |   |         |                          | Shallow (0.65)                          |              |                |
|                 |   |         |                          | High vegetative cover (0.07)            |              |                |
|                 |   |         | Eunice (10%)             | Extremely low organic matter (0.96)     |              |                |
|                 |   |         |                          | Weakly structured (0.75)                |              |                |
|                 |   |         |                          | Dry (0.70)                              |              |                |
|                 |   |         |                          | Shallow (0.60)                          |              |                |
|                 |   |         |                          | High vegetative cover (0.07)            |              |                |
|                 |   |         | Spraberry (6%)           | Extremely low organic matter (0.97)     |              |                |
|                 |   |         |                          | Weakly structured (0.75)                |              |                |
|                 |   |         |                          | Dry (0.70)                              |              |                |
|                 |   |         |                          | Moderately deep (0.45)                  |              |                |
|                 |   |         |                          | High vegetative cover (0.07)            |              |                |
|                 |   |         | Kenhill (4%)             | Poor structure (1.00)                   |              |                |
|                 |   |         |                          | Very low organic matter (0.91)          |              |                |
|                 |   |         |                          | Dry (0.70)                              |              |                |
|                 |   |         |                          | Moderately deep (0.27)                  |              |                |
|                 |   |         |                          | Moderately-high vegetative cover (0.14) |              |                |
| KU              | Kimbrough-Lea complex, dry, 0 to 3 percent slopes   | Fragile | Kimbrough (45%)          | Poor structure (1.00)                   | 0.8          | 34.3%          |
|                 |   |         |                          | Dry (0.70)                              |              |                |
|                 |   |         |                          | Low organic matter (0.69)               |              |                |

## Custom Soil Resource Report

| Map unit symbol                    | Map unit name | Rating | Component name (percent) | Rating reasons (numeric values)         | Acres in AOI | Percent of AOI |
|------------------------------------|---------------|--------|--------------------------|---|--------------|----------------|
|                                    |               |        |                          | Shallow (0.65)                          |              |                |
|                                    |               |        |                          | High vegetative cover (0.07)            |              |                |
|                                    |               |        | Kenhill (12%)            | Poor structure (1.00)                   |              |                |
|                                    |               |        |                          | Very low organic matter (0.91)          |              |                |
|                                    |               |        |                          | Dry (0.70)                              |              |                |
|                                    |               |        |                          | Moderately deep (0.27)                  |              |                |
|                                    |               |        |                          | Moderately-high vegetative cover (0.14) |              |                |
|                                    |               |        | Douro (12%)              | Extremely low organic matter (0.95)     |              |                |
|                                    |               |        |                          | Weakly structured (0.75)                |              |                |
|                                    |               |        |                          | Dry (0.70)                              |              |                |
|                                    |               |        |                          | Moderately deep (0.25)                  |              |                |
|                                    |               |        |                          | Nearly level (0.02)                     |              |                |
|                                    |               |        | Spraberry (6%)           | Extremely low organic matter (0.97)     |              |                |
|                                    |               |        |                          | Weakly structured (0.75)                |              |                |
|                                    |               |        |                          | Dry (0.70)                              |              |                |
|                                    |               |        |                          | Moderately deep (0.45)                  |              |                |
|                                    |               |        |                          | High vegetative cover (0.07)            |              |                |
| <b>Totals for Area of Interest</b> |               |        |                          |   | <b>2.4</b>   | <b>100.0%</b>  |

| Rating                             | Acres in AOI | Percent of AOI |
|------------------------------------|--------------|----------------|
| Fragile                            | 2.4          | 100.0%         |
| <b>Totals for Area of Interest</b> | <b>2.4</b>   | <b>100.0%</b>  |

## Rating Options—Fragile Soil Index

Aggregation Method: Dominant Condition

## Custom Soil Resource Report

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

*Component Percent Cutoff: None Specified*

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

*Tie-break Rule: Higher*

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

## Custom Soil Resource Report

## Soil Properties and Qualities

The Soil Properties and Qualities section includes various soil properties and qualities displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each property or quality.

## Soil Chemical Properties

Soil Chemical Properties are measured or inferred from direct observations in the field or laboratory. Examples of soil chemical properties include pH, cation exchange capacity, calcium carbonate, gypsum, and electrical conductivity.

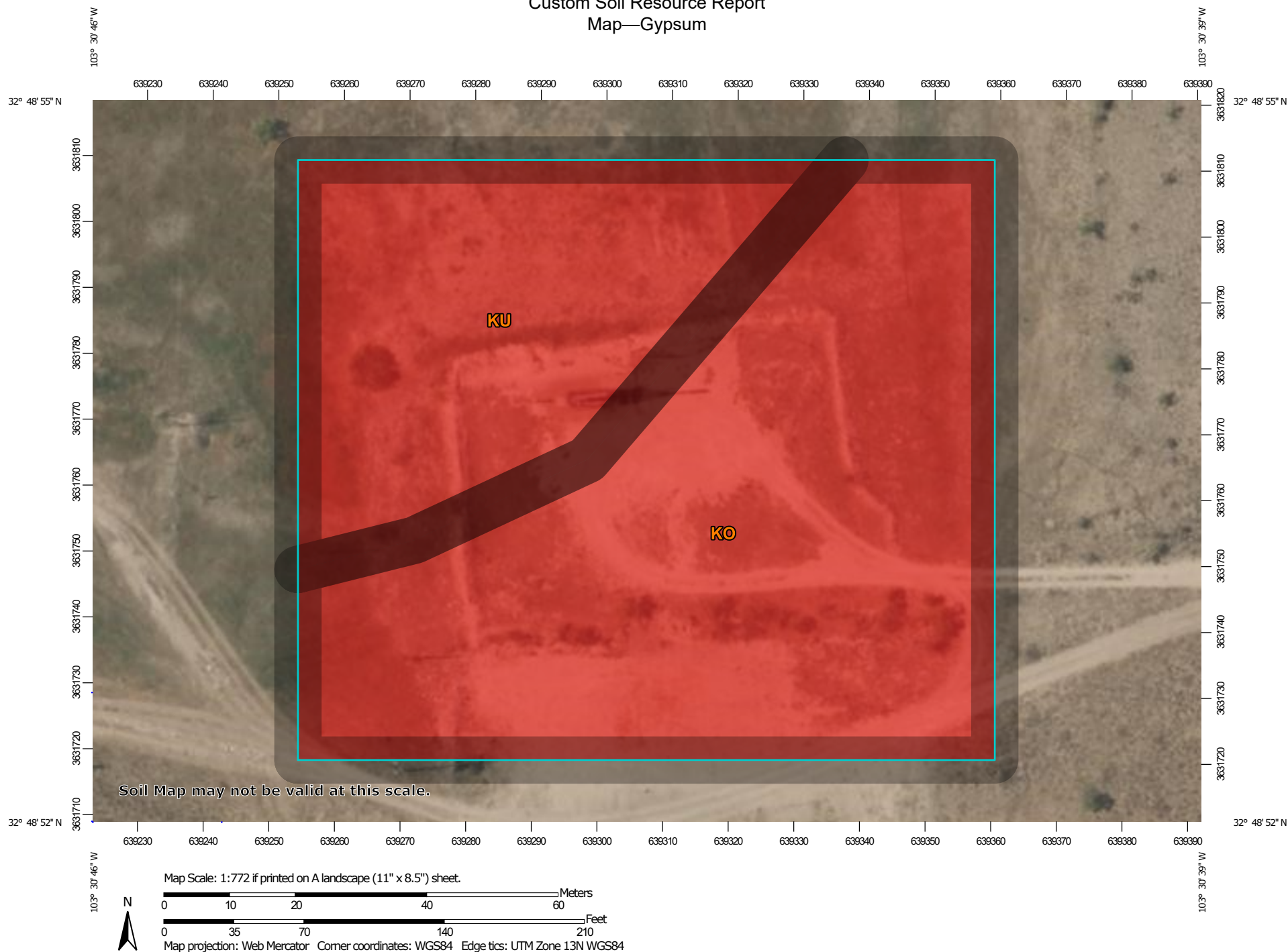
### Gypsum

The content of gypsum is the percent, by weight, of hydrated calcium sulfates in the fraction of the soil less than 20 millimeters in size. Gypsum is partially soluble in water. Soils high in content of gypsum, such as those with more than 10 percent gypsum, may collapse if the gypsum is removed by percolating water. Gypsum is corrosive to concrete.

For each soil layer, this attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.




# Custom Soil Resource Report Map—Gypsum






## Custom Soil Resource Report

**MAP LEGEND****Area of Interest (AOI)**
 Area of Interest (AOI)
**Soils****Soil Rating Polygons**
 = 0

 Not rated or not available
**Soil Rating Lines**
 = 0



 Not rated or not available
**Soil Rating Points**
 = 0

 Not rated or not available
**Water Features**
 Streams and Canals
**Transportation**
 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads
**Background**
 Aerial Photography
**MAP INFORMATION**

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Custom Soil Resource Report

**Table—Gypsum**

| Map unit symbol                    | Map unit name                                       | Rating (percent) | Acres in AOI | Percent of AOI |
|------------------------------------|---|------------------|--------------|----------------|
| KO                                 | Kimbrough gravelly loam, dry, 0 to 3 percent slopes | 0                | 1.6          | 65.7%          |
| KU                                 | Kimbrough-Lea complex, dry, 0 to 3 percent slopes   | 0                | 0.8          | 34.3%          |
| <b>Totals for Area of Interest</b> |   |                  | <b>2.4</b>   | <b>100.0%</b>  |

**Rating Options—Gypsum**

*Units of Measure:* percent

*Aggregation Method:* Dominant Component

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Component" returns the attribute value associated with the component with the highest percent composition in the map unit. If more than one component shares the highest percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher attribute value should be returned in the case of a percent composition tie. The result returned by this aggregation method may or may not represent the dominant condition throughout the map unit.

*Component Percent Cutoff:* None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

*Tie-break Rule:* Higher

## Custom Soil Resource Report

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

### *Interpret Nulls as Zero: Yes*

This option indicates if a null value for a component should be converted to zero before aggregation occurs. This will be done only if a map unit has at least one component where this value is not null.

### *Layer Options (Horizon Aggregation Method): Surface Layer (Not applicable)*

For an attribute of a soil horizon, a depth qualification must be specified. In most cases it is probably most appropriate to specify a fixed depth range, either in centimeters or inches. The Bottom Depth must be greater than the Top Depth, and the Top Depth can be greater than zero. The choice of "inches" or "centimeters" only applies to the depth of soil to be evaluated. It has no influence on the units of measure the data are presented in.

When "Surface Layer" is specified as the depth qualifier, only the surface layer or horizon is considered when deriving a value for a component, but keep in mind that the thickness of the surface layer varies from component to component.

When "All Layers" is specified as the depth qualifier, all layers recorded for a component are considered when deriving the value for that component.

Whenever more than one layer or horizon is considered when deriving a value for a component, and the attribute being aggregated is a numeric attribute, a weighted average value is returned, where the weighting factor is the layer or horizon thickness.

## Soil Erosion Factors

Soil Erosion Factors are soil properties and interpretations used in evaluating the soil for potential erosion. Example soil erosion factors can include K factor for the whole soil or on a rock free basis, T factor, wind erodibility group and wind erodibility index.

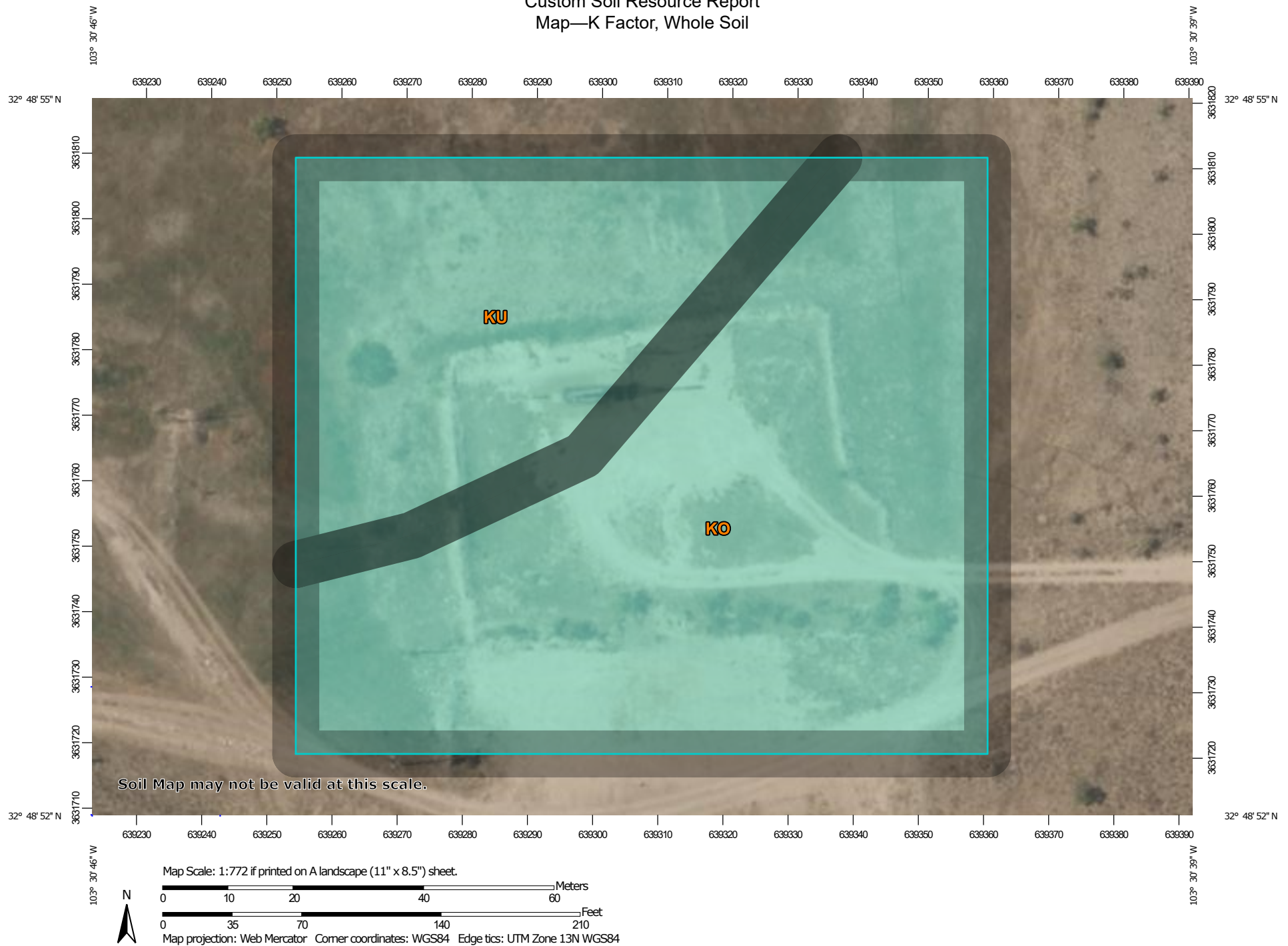
### K Factor, Whole Soil

Erosion factor K indicates the susceptibility of a soil to sheet and rill erosion by water. Factor K is one of six factors used in the Universal Soil Loss Equation (USLE) and the Revised Universal Soil Loss Equation (RUSLE) to predict the average annual rate of soil loss by sheet and rill erosion in tons per acre per year. The estimates are based primarily on percentage of silt, sand, and organic matter and on soil structure and saturated hydraulic conductivity (Ksat). Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.

"Erosion factor Kw (whole soil)" indicates the erodibility of the whole soil. The estimates are modified by the presence of rock fragments.

## Custom Soil Resource Report


Factor K does not apply to organic horizons and is not reported for those layers.

Custom Soil Resource Report  
Map—K Factor, Whole Soil

## Custom Soil Resource Report
















## MAP LEGEND

## Area of Interest (AOI)


 Area of Interest (AOI)










## Soils

## Soil Rating Polygons
















|   |                            |
|---|----------------------------|
|  | .02                        |
|  | .05                        |
|  | .10                        |
|  | .15                        |
|  | .17                        |
|  | .20                        |
|  | .24                        |
|  | .28                        |
|  | .32                        |
|  | .37                        |
|  | .43                        |
|  | .49                        |
|  | .55                        |
|  | .64                        |
|  | Not rated or not available |

## Soil Rating Lines








|   |     |
|---|-----|
|  | .02 |
|  | .05 |
|  | .10 |
|  | .15 |
|  | .17 |
|  | .20 |

|   |                            |
|---|----------------------------|
|  | .24                        |
|  | .28                        |
|  | .32                        |
|  | .37                        |
|  | .43                        |
|  | .49                        |
|  | .55                        |
|  | .64                        |
|  | Not rated or not available |

## Soil Rating Points

|   |                            |
|---|----------------------------|
|    | .02                        |
|    | .05                        |
|    | .10                        |
|    | .15                        |
|    | .17                        |
|    | .20                        |
|    | .24                        |
|    | .28                        |
|   | .32                        |
|  | .37                        |
|  | .43                        |
|  | .49                        |
|  | .55                        |
|  | .64                        |
|  | Not rated or not available |

## Water Features

|   |                     |
|---|---------------------|
|  | Streams and Canals  |
|  | Rails               |
|  | Interstate Highways |
|  | US Routes           |
|  | Major Roads         |
|  | Local Roads         |
|  | Aerial Photography  |

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Custom Soil Resource Report

**Table—K Factor, Whole Soil**

| Map unit symbol                    | Map unit name                                       | Rating | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------|--------------|----------------|
| KO                                 | Kimbrough gravelly loam, dry, 0 to 3 percent slopes | .32    | 1.6          | 65.7%          |
| KU                                 | Kimbrough-Lea complex, dry, 0 to 3 percent slopes   | .32    | 0.8          | 34.3%          |
| <b>Totals for Area of Interest</b> |   |        | <b>2.4</b>   | <b>100.0%</b>  |

**Rating Options—K Factor, Whole Soil***Aggregation Method: Dominant Condition*

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

*Component Percent Cutoff: None Specified*

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

## Custom Soil Resource Report

*Tie-break Rule: Higher*

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

*Layer Options (Horizon Aggregation Method): Surface Layer (Not applicable)*

For an attribute of a soil horizon, a depth qualification must be specified. In most cases it is probably most appropriate to specify a fixed depth range, either in centimeters or inches. The Bottom Depth must be greater than the Top Depth, and the Top Depth can be greater than zero. The choice of "inches" or "centimeters" only applies to the depth of soil to be evaluated. It has no influence on the units of measure the data are presented in.

When "Surface Layer" is specified as the depth qualifier, only the surface layer or horizon is considered when deriving a value for a component, but keep in mind that the thickness of the surface layer varies from component to component.

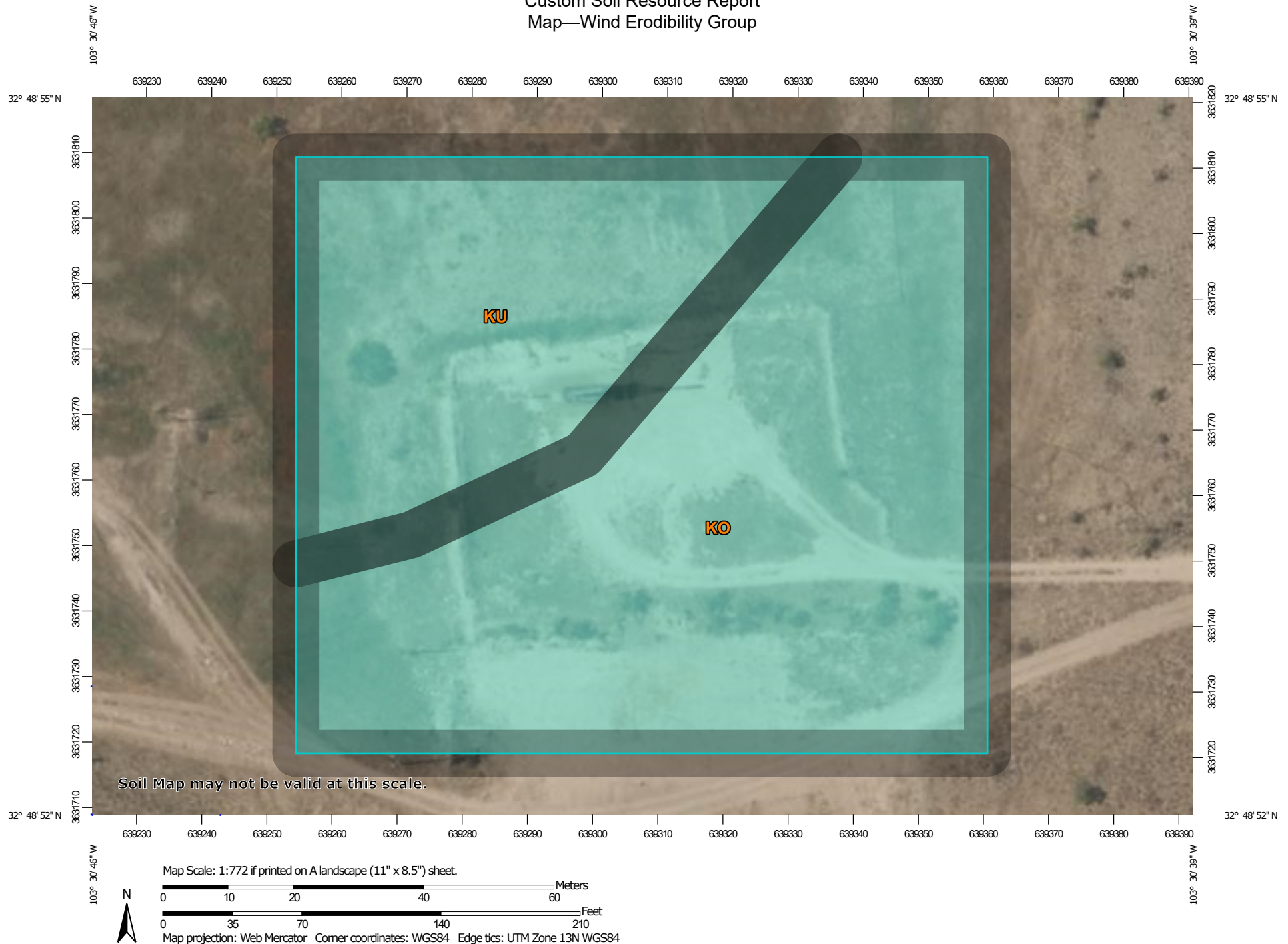
When "All Layers" is specified as the depth qualifier, all layers recorded for a component are considered when deriving the value for that component.

Whenever more than one layer or horizon is considered when deriving a value for a component, and the attribute being aggregated is a numeric attribute, a weighted average value is returned, where the weighting factor is the layer or horizon thickness.

**Wind Erodibility Group**

A wind erodibility group (WEG) consists of soils that have similar properties affecting their susceptibility to wind erosion in cultivated areas. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible.




Custom Soil Resource Report  
Map—Wind Erodibility Group

## Custom Soil Resource Report

## MAP LEGEND

## Area of Interest (AOI)











 Area of Interest (AOI)

## Soils

## Soil Rating Polygons

- |   |                            |
|---|----------------------------|
|  | 1                          |
|  | 2                          |
|  | 3                          |
|  | 4                          |
|  | 4L                         |
|  | 5                          |
|  | 6                          |
|  | 7                          |
|  | 8                          |
|  | Not rated or not available |


## Soil Rating Lines

- |   |                            |
|---|----------------------------|
|    | 1                          |
|    | 2                          |
|    | 3                          |
|  | 4                          |
|  | 4L                         |
|  | 5                          |
|  | 6                          |
|  | 7                          |
|  | 8                          |
|  | Not rated or not available |






## Soil Rating Points

- |   |                            |
|---|----------------------------|
|  | 1                          |
|  | 2                          |
|  | 3                          |
|  | 4                          |
|  | 4L                         |
|  | 5                          |
|  | 6                          |
|  | 7                          |
|  | 8                          |
|  | Not rated or not available |


## Water Features

 Streams and Canals

## Transportation

- |  |                     |
|--|---------------------|
|   | Rails               |
|   | Interstate Highways |
|   | US Routes           |
|   | Major Roads         |
|  | Local Roads         |

## Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Custom Soil Resource Report

**Table—Wind Erodibility Group**

| Map unit symbol                    | Map unit name                                       | Rating | Acres in AOI | Percent of AOI |
|------------------------------------|---|--------|--------------|----------------|
| KO                                 | Kimbrough gravelly loam, dry, 0 to 3 percent slopes | 5      | 1.6          | 65.7%          |
| KU                                 | Kimbrough-Lea complex, dry, 0 to 3 percent slopes   | 5      | 0.8          | 34.3%          |
| <b>Totals for Area of Interest</b> |   |        | <b>2.4</b>   | <b>100.0%</b>  |

**Rating Options—Wind Erodibility Group***Aggregation Method: Dominant Condition*

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

*Component Percent Cutoff: None Specified*

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

## Custom Soil Resource Report

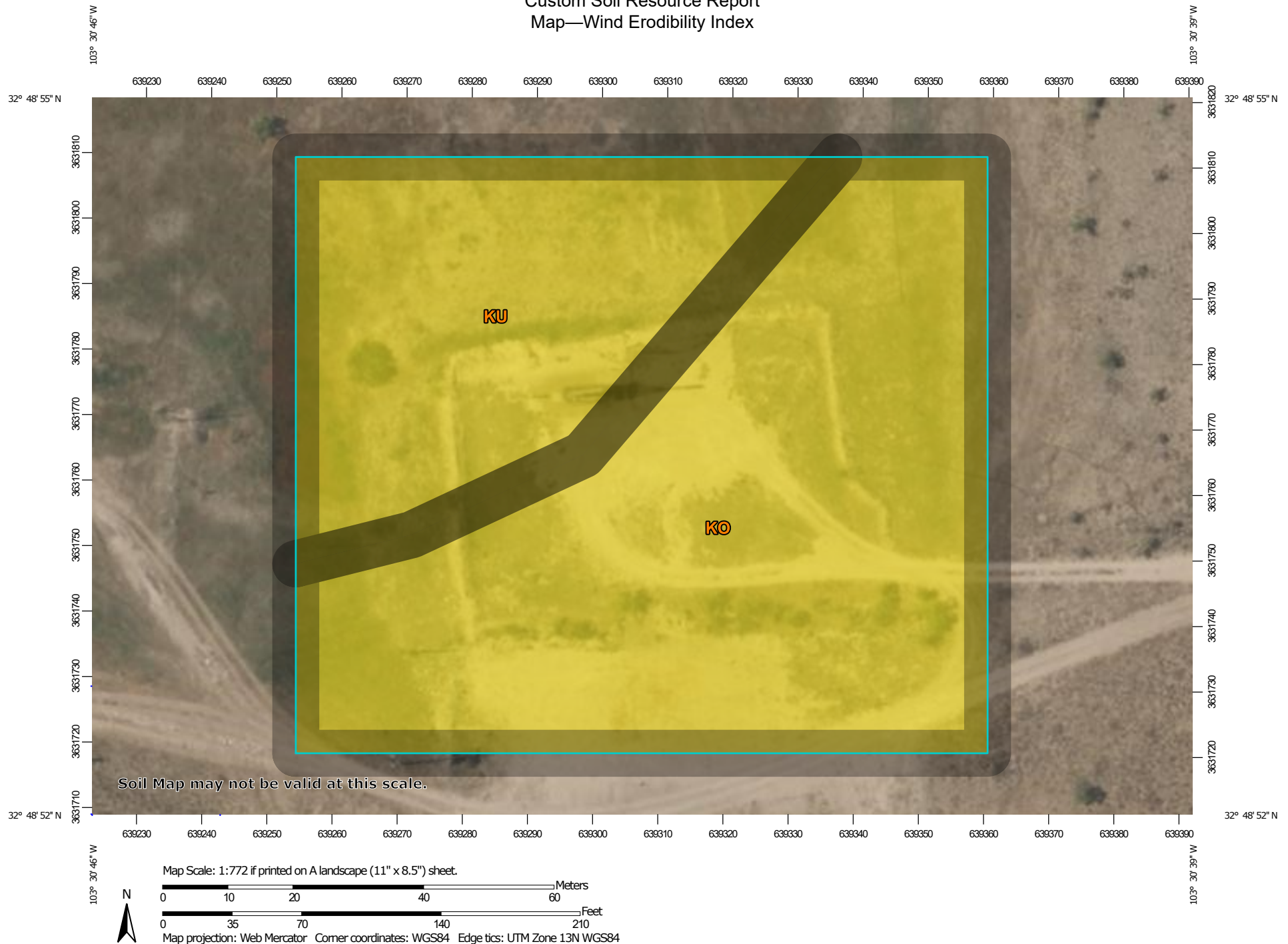
*Tie-break Rule:* Lower

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

### Wind Erodibility Index

The wind erodibility index is a numerical value indicating the susceptibility of soil to wind erosion, or the tons per acre per year that can be expected to be lost to wind erosion. There is a close correlation between wind erosion and the texture of the surface layer, the size and durability of surface clods, rock fragments, organic matter, and a calcareous reaction. Soil moisture and frozen soil layers also influence wind erosion.




Custom Soil Resource Report  
Map—Wind Erodibility Index

## Custom Soil Resource Report













## MAP LEGEND

## Area of Interest (AOI)









 Area of Interest (AOI)

## Soils

## Soil Rating Polygons

|   |                            |
|---|----------------------------|
|  | 0                          |
|  | 38                         |
|  | 48                         |
|  | 56                         |
|  | 86                         |
|  | 134                        |
|  | 160                        |
|  | 180                        |
|  | 220                        |
|  | 250                        |
|  | 310                        |
|  | Not rated or not available |

## Soil Rating Lines













|   |     |
|---|-----|
|    | 0   |
|  | 38  |
|  | 48  |
|  | 56  |
|  | 86  |
|  | 134 |
|  | 160 |
|  | 180 |
|  | 220 |

 250

 310

 Not rated or not available





## Soil Rating Points

|   |                            |
|---|----------------------------|
|  | 0                          |
|  | 38                         |
|  | 48                         |
|  | 56                         |
|  | 86                         |
|  | 134                        |
|  | 160                        |
|  | 180                        |
|  | 220                        |
|  | 250                        |
|  | 310                        |
|  | Not rated or not available |


## Water Features

 Streams and Canals

## Transportation

 Rails  
 Interstate Highways  
 US Routes  
 Major Roads  
 Local Roads

## Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico  
 Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Custom Soil Resource Report

**Table—Wind Erodibility Index**

| Map unit symbol                    | Map unit name                                       | Rating (tons per acre per year) | Acres in AOI | Percent of AOI |
|------------------------------------|---|---------------------------------|--------------|----------------|
| KO                                 | Kimbrough gravelly loam, dry, 0 to 3 percent slopes | 56                              | 1.6          | 65.7%          |
| KU                                 | Kimbrough-Lea complex, dry, 0 to 3 percent slopes   | 56                              | 0.8          | 34.3%          |
| <b>Totals for Area of Interest</b> |   |                                 | <b>2.4</b>   | <b>100.0%</b>  |

**Rating Options—Wind Erodibility Index**

*Units of Measure:* tons per acre per year

*Aggregation Method:* Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

*Component Percent Cutoff:* None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be

## Custom Soil Resource Report

considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

*Tie-break Rule:* Higher

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

## Soil Qualities and Features

Soil qualities are behavior and performance attributes that are not directly measured, but are inferred from observations of dynamic conditions and from soil properties. Example soil qualities include natural drainage, and frost action. Soil features are attributes that are not directly part of the soil. Example soil features include slope and depth to restrictive layer. These features can greatly impact the use and management of the soil.

## Depth to Bedrock

The term bedrock in soil survey refers to a continuous root and water restrictive layer of rock that occurs within the soil profile.

There are many types of restrictions that can occur within the soil profile but this theme only includes the three restrictions that use the term bedrock. These are:

- 1) Lithic Bedrock
- 2) Paralithic Bedrock
- 3) Densic Bedrock

Lithic bedrock and paralithic bedrock are comprised of igneous, metamorphic, and sedimentary rocks, which are coherent and consolidated into rock through pressure, heat, cementation, or fusion. Lithic bedrock represents the hardest type of bedrock, with a hardness of strongly coherent to indurated. Paralithic bedrock has a hardness of extremely weakly coherent to moderately coherent. It can occur as a thin layer of weathered bedrock above harder lithic bedrock. Paralithic bedrock can also be much thicker, extending well below the soil profile.

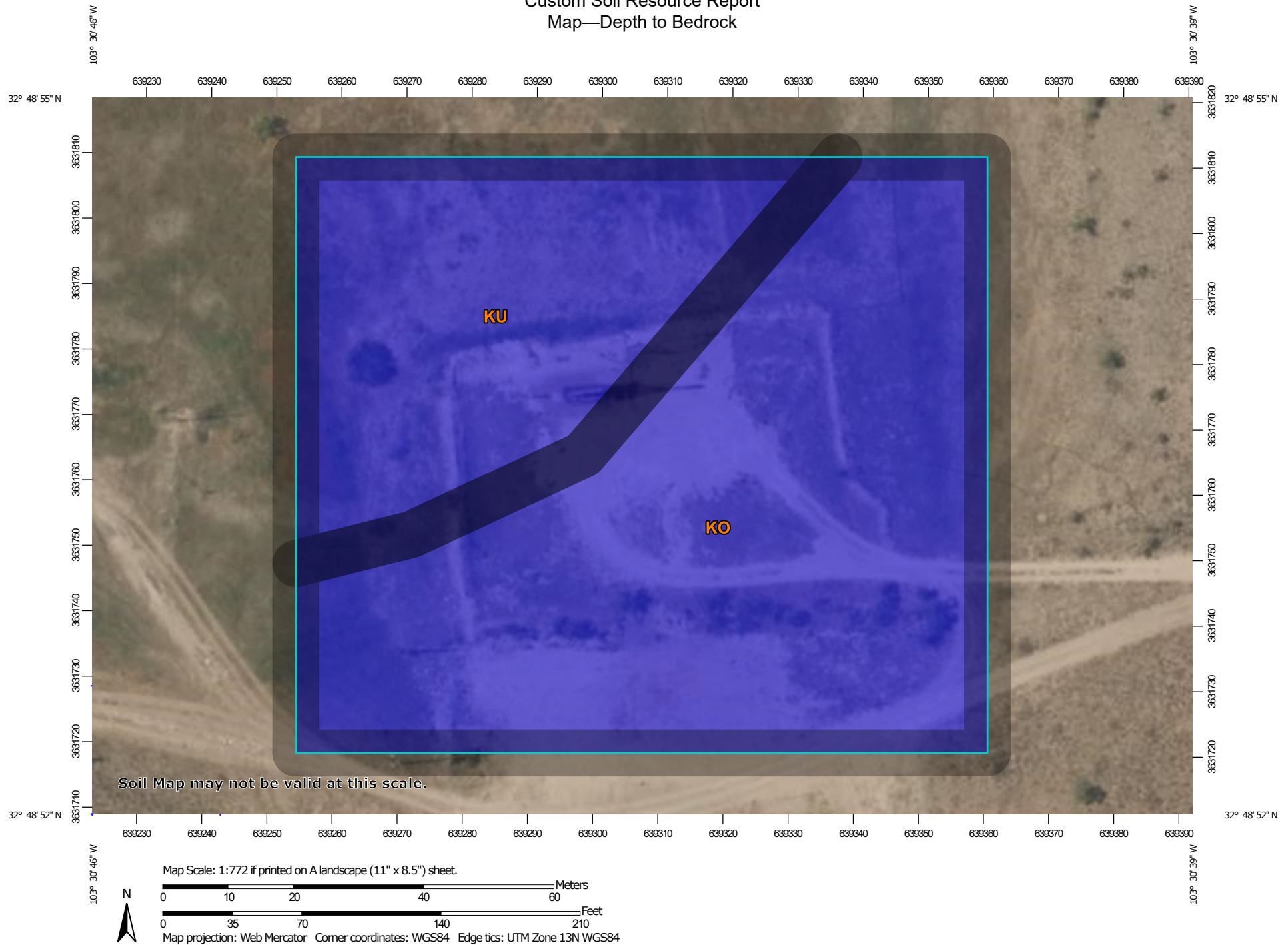
Densic bedrock represents a unique kind of bedrock recognized within the soil survey. It is non-coherent and consolidated, dense root restrictive material, formed by pressure, heat, and dewatering of earth materials or sediments. Densic bedrock differs from densic materials, which formed under the compaction of glaciers, mudflows, and or human-caused compaction.

If more than one type of bedrock is described for an individual soil type, the depth to the shallowest one is given. If no bedrock is described in a map unit, it is represented by the "greater than 200" depth class.



## Custom Soil Resource Report


Depth to bedrock is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Custom Soil Resource Report  
Map—Depth to Bedrock

## Custom Soil Resource Report








## MAP LEGEND

## Area of Interest (AOI)



 Area of Interest (AOI)

## Soils







## Soil Rating Polygons


-  0 - 25
-  25 - 50
-  50 - 100
-  100 - 150
-  150 - 200
-  > 200
-  Not rated or not available

## Soil Rating Lines


-  0 - 25
-  25 - 50
-  50 - 100
-  100 - 150
-  150 - 200
-  > 200
-  Not rated or not available

## Soil Rating Points






-  0 - 25
-  25 - 50
-  50 - 100
-  100 - 150
-  150 - 200
-  > 200

 Not rated or not available

## Water Features

 Streams and Canals

## Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

## Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Custom Soil Resource Report

**Table—Depth to Bedrock**

| Map unit symbol                    | Map unit name                                       | Rating (centimeters) | Acres in AOI | Percent of AOI |
|------------------------------------|---|----------------------|--------------|----------------|
| KO                                 | Kimbrough gravelly loam, dry, 0 to 3 percent slopes | >200                 | 1.6          | 65.7%          |
| KU                                 | Kimbrough-Lea complex, dry, 0 to 3 percent slopes   | >200                 | 0.8          | 34.3%          |
| <b>Totals for Area of Interest</b> |   |                      | <b>2.4</b>   | <b>100.0%</b>  |

**Rating Options—Depth to Bedrock**

*Units of Measure:* centimeters

*Aggregation Method:* Dominant Component

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Component" returns the attribute value associated with the component with the highest percent composition in the map unit. If more than one component shares the highest percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher attribute value should be returned in the case of a percent composition tie. The result returned by this aggregation method may or may not represent the dominant condition throughout the map unit.

*Component Percent Cutoff:* None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

*Tie-break Rule:* Lower



## Custom Soil Resource Report

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

*Interpret Nulls as Zero: No*

This option indicates if a null value for a component should be converted to zero before aggregation occurs. This will be done only if a map unit has at least one component where this value is not null.

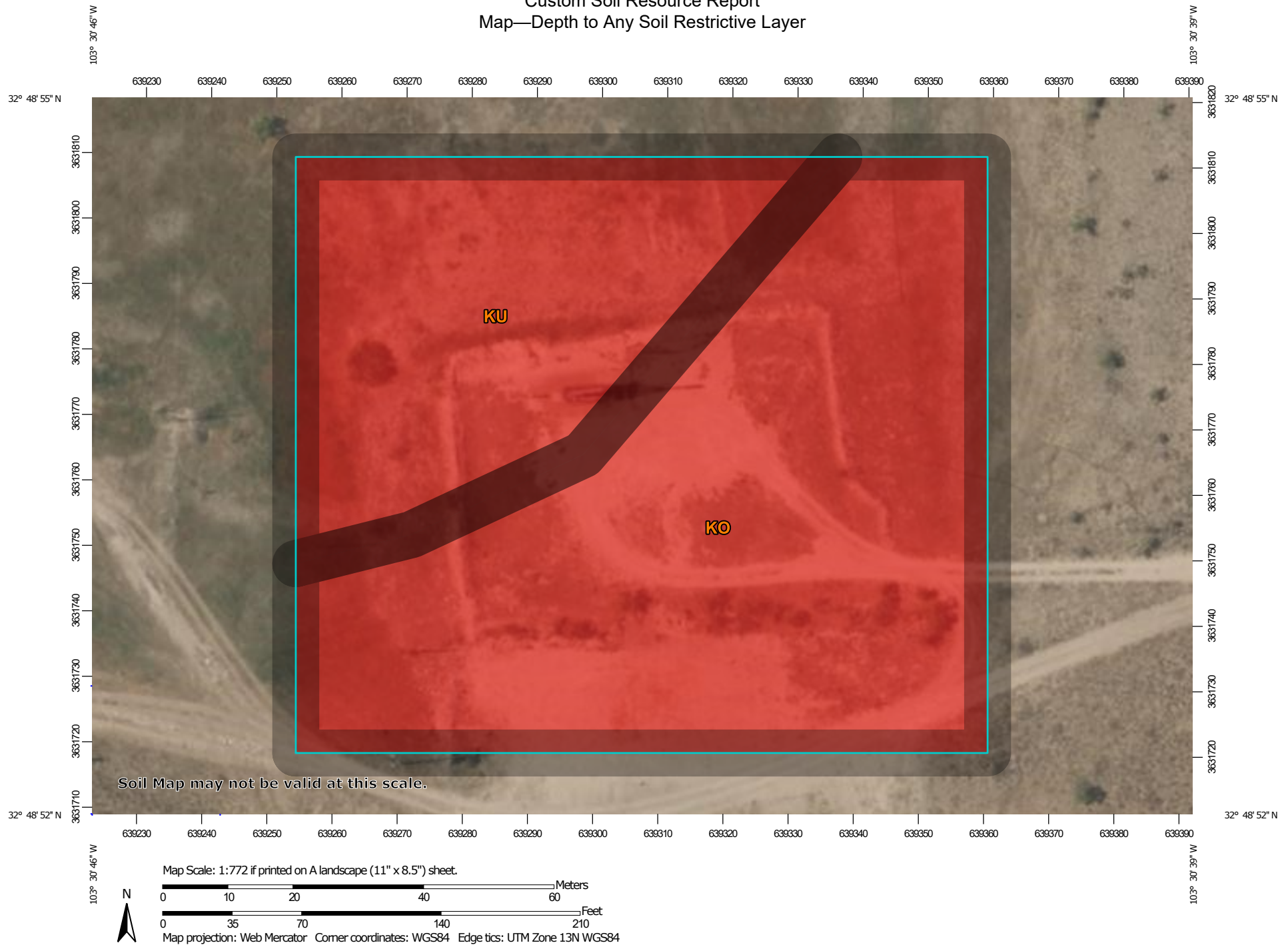
**Depth to Any Soil Restrictive Layer**

A "restrictive layer" is a nearly continuous layer that has one or more physical, chemical, or thermal properties that significantly impede the movement of water and air through the soil or that restrict roots or otherwise provide an unfavorable root environment. Examples are bedrock, cemented layers, dense layers, and frozen layers.

This theme presents the depth to any type of restrictive layer that is described for each map unit. If more than one type of restrictive layer is described for an individual soil type, the depth to the shallowest one is presented. If no restrictive layer is described in a map unit, it is represented by the "greater than 200" depth class.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.


Custom Soil Resource Report  
Map—Depth to Any Soil Restrictive Layer



## Custom Soil Resource Report








## MAP LEGEND

## Area of Interest (AOI)



 Area of Interest (AOI)

## Soils







## Soil Rating Polygons


|   |                            |
|---|----------------------------|
|  | 0 - 25                     |
|  | 25 - 50                    |
|  | 50 - 100                   |
|  | 100 - 150                  |
|  | 150 - 200                  |
|  | > 200                      |
|  | Not rated or not available |

## Soil Rating Lines


|  |                            |
|--|----------------------------|
|   | 0 - 25                     |
|   | 25 - 50                    |
|   | 50 - 100                   |
|   | 100 - 150                  |
|   | 150 - 200                  |
|   | > 200                      |
|  | Not rated or not available |

## Soil Rating Points






|   |           |
|---|-----------|
|  | 0 - 25    |
|  | 25 - 50   |
|  | 50 - 100  |
|  | 100 - 150 |
|  | 150 - 200 |
|  | > 200     |

 Not rated or not available


## Water Features

 Streams and Canals

## Transportation

|   |                     |
|---|---------------------|
|  | Rails               |
|  | Interstate Highways |
|  | US Routes           |
|  | Major Roads         |
|  | Local Roads         |

## Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Custom Soil Resource Report

**Table—Depth to Any Soil Restrictive Layer**

| Map unit symbol                    | Map unit name                                       | Rating (centimeters) | Acres in AOI | Percent of AOI |
|------------------------------------|---|----------------------|--------------|----------------|
| KO                                 | Kimbrough gravelly loam, dry, 0 to 3 percent slopes | 25                   | 1.6          | 65.7%          |
| KU                                 | Kimbrough-Lea complex, dry, 0 to 3 percent slopes   | 25                   | 0.8          | 34.3%          |
| <b>Totals for Area of Interest</b> |   |                      | <b>2.4</b>   | <b>100.0%</b>  |

**Rating Options—Depth to Any Soil Restrictive Layer**

*Units of Measure:* centimeters

*Aggregation Method:* Dominant Component

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Component" returns the attribute value associated with the component with the highest percent composition in the map unit. If more than one component shares the highest percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher attribute value should be returned in the case of a percent composition tie. The result returned by this aggregation method may or may not represent the dominant condition throughout the map unit.

*Component Percent Cutoff:* None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

*Tie-break Rule:* Lower



## Custom Soil Resource Report

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

*Interpret Nulls as Zero: No*

This option indicates if a null value for a component should be converted to zero before aggregation occurs. This will be done only if a map unit has at least one component where this value is not null.

**Representative Slope**

Slope gradient is the difference in elevation between two points, expressed as a percentage of the distance between those points.


The slope gradient is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Custom Soil Resource Report  
Map—Representative Slope

## Custom Soil Resource Report






## MAP LEGEND

## Area of Interest (AOI)

 Area of Interest (AOI)

## Soils







## Soil Rating Polygons

 0 - 5  
 5 - 15  
 15 - 45  
 45 - 60  
 60 - 100  
 Not rated or not available


## Soil Rating Lines

 0 - 5  
 5 - 15  
 15 - 45  
 45 - 60  
 60 - 100  
 Not rated or not available






## Soil Rating Points

 0 - 5  
 5 - 15  
 15 - 45  
 45 - 60  
 60 - 100  
 Not rated or not available


## Water Features

 Streams and Canals

## Transportation

 Rails  
 Interstate Highways  
 US Routes  
 Major Roads  
 Local Roads

## Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico  
 Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Custom Soil Resource Report

**Table—Representative Slope**

| Map unit symbol                    | Map unit name                                       | Rating (percent) | Acres in AOI | Percent of AOI |
|------------------------------------|---|------------------|--------------|----------------|
| KO                                 | Kimbrough gravelly loam, dry, 0 to 3 percent slopes | 1.0              | 1.6          | 65.7%          |
| KU                                 | Kimbrough-Lea complex, dry, 0 to 3 percent slopes   | 1.0              | 0.8          | 34.3%          |
| <b>Totals for Area of Interest</b> |   |                  | <b>2.4</b>   | <b>100.0%</b>  |

**Rating Options—Representative Slope**

*Units of Measure:* percent

*Aggregation Method:* Dominant Component

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The aggregation method "Dominant Component" returns the attribute value associated with the component with the highest percent composition in the map unit. If more than one component shares the highest percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher attribute value should be returned in the case of a percent composition tie. The result returned by this aggregation method may or may not represent the dominant condition throughout the map unit.

*Component Percent Cutoff:* None Specified

Components whose percent composition is below the cutoff value will not be considered. If no cutoff value is specified, all components in the database will be considered. The data for some contrasting soils of minor extent may not be in the database, and therefore are not considered.

*Tie-break Rule:* Higher



## Custom Soil Resource Report

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

### *Interpret Nulls as Zero:* No

This option indicates if a null value for a component should be converted to zero before aggregation occurs. This will be done only if a map unit has at least one component where this value is not null.

## References

---

- American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.
- American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.
- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.
- Federal Register. July 13, 1994. Changes in hydric soils of the United States.
- Federal Register. September 18, 2002. Hydric soils of the United States.
- Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.
- National Research Council. 1995. Wetlands: Characteristics and boundaries.
- Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_054262](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262)
- Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053577](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577)
- Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053580](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053580)
- Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.
- United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.
- United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2\\_053374](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374)
- United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084>

## Custom Soil Resource Report

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2\\_054242](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242)


United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. [http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2\\_053624](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624)

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. [http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/nrcs142p2\\_052290.pdf](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf)



# New Mexico Office of the State Engineer

## Point of Diversion Summary

|          |              |                                    |     |    |     |                                    |     |        |         |   |  |
|----------|--------------|------------------------------------|-----|----|-----|------------------------------------|-----|--------|---------|---|--|
|          |              | (quarters are 1=NW 2=NE 3=SW 4=SE) |     |    |     | (quarters are smallest to largest) |     |        |         | (NAD83 UTM in meters)   |  |
| Well Tag | POD Number   | Q64                                | Q16 | Q4 | Sec | Tws                                | Rng | X      | Y       |   |  |
| NA       | L 14650 POD3 | 1                                  | 1   | 2  | 25  | 17S                                | 34E | 639107 | 3631506 |  |  |

|                   |                 |                      |                     |  |                  |         |
|-------------------|-----------------|----------------------|---------------------|--|------------------|---------|
| Driller License:  | 1737            | Driller Company:     | SHADE TREE DRILLING |  |                  |         |
| Driller Name:     | LOEWEN, PETER B |                      |                     |  |                  |         |
| Drill Start Date: | 04/13/2021      | Drill Finish Date:   | 04/22/2021          |  | Plug Date:       |         |
| Log File Date:    | 09/07/2022      | PCW Rcv Date:        |                     |  | Source:          | Shallow |
| Pump Type:        |                 | Pipe Discharge Size: |                     |  | Estimated Yield: | 220 GPM |
| Casing Size:      | 12.00           | Depth Well:          | 250 feet            |  | Depth Water:     | 45 feet |

|                                |     |        |                               |
|--------------------------------|-----|--------|-------------------------------|
| Water Bearing Stratifications: | Top | Bottom | Description                   |
|                                | 45  | 205    | Sandstone/Gravel/Conglomerate |

|                      |     |        |
|----------------------|-----|--------|
| Casing Perforations: | Top | Bottom |
|                      | 50  | 250    |

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.

OSE 011 NOV 22 2022 PM 3:07



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

|   |   |               |  |  |  |   |                                |                                 |  |
|---|---|---------------|--|--|--|---|--------------------------------|---------------------------------|--|
| 1. GENERAL AND WELL LOCATION  | OSE POD NO. (WELL NO.)<br>L-14650-Pod 3   |               | WELL TAG ID NO.                            |  | OSE FILE NO(S).<br>L-14650-Pod 3               |   |                                |                                 |  |
|   | WELL OWNER NAME(S)<br>Pearce Trust, Ricky Pearce  |               |  |  | PHONE (OPTIONAL)<br>(575) 390-0984             |   |                                |                                 |  |
|   | WELL OWNER MAILING ADDRESS<br>26 Collier LN R   |               |  |  | CITY STATE ZIP<br>Tatum NM 88267               |   |                                |                                 |  |
|   | WELL LOCATION (FROM GPS)  | DEGREES<br>32 | MINUTES<br>48                              | SECONDS<br>45.9  | N  | * ACCURACY REQUIRED: ONE TENTH OF A SECOND                          |                                |                                 |  |
|   | LATITUDE  | 103           | 30   | 50.7   | W  | * DATUM REQUIRED: WGS 84  |                                |                                 |  |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE |   |               |  |  |  |   |                                |                                 |  |
| 2. DRILLING & CASING INFORMATION  | LICENSE NO.<br>WD1737   |               | NAME OF LICENSED DRILLER<br>Peter B Loewen |  |  | NAME OF WELL DRILLING COMPANY<br>Shade Tree Drilling                |                                |                                 |  |
|   | DRILLING STARTED<br>4-13-21   |               | DRILLING ENDED<br>4-22-21                  |  | DEPTH OF COMPLETED WELL (FT)<br>250            |   | BORE HOLE DEPTH (FT)<br>250    |                                 |  |
|   |   |               |  |  | DEPTH WATER FIRST ENCOUNTERED (FT)<br>45       |   |                                |                                 |  |
|   | COMPLETED WELL IS: <input checked="" type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)                           |               |  |  |  | STATIC WATER LEVEL IN COMPLETED WELL (FT)<br>45                     |                                | DATE STATIC MEASURED<br>4-22-21 |  |
|   | DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD  |               |  |  |  | ADDITIVES - SPECIFY:  |                                |                                 |  |
|   | DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY: |               |  |  |  | CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/> |                                |                                 |  |
|   | DEPTH (feet bgl)  |               | BORE HOLE DIAM (inches)                    | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches)  | CASING WALL THICKNESS (inches) | SLOT SIZE (inches)              |  |
|   | FROM  | TO            |  |  |  |   |                                |                                 |  |
|   | 0   | 50            | 18   | Steel  | Welds  | 12  | .33                            |                                 |  |
|   | 50  | 250           | 18   | Steel-Perf   | Welds  | 12  | .33                            | 5/8                             |  |
|   |   |               |  |  |  |   |                                |                                 |  |
|   |   |               |  |  |  |   |                                |                                 |  |
|   |   |               |  |  |  |   |                                |                                 |  |
|   |   |               |  |  |  |   |                                |                                 |  |
| 3. ANNULAR MATERIAL   | DEPTH (feet bgl)  |               | BORE HOLE DIAM. (inches)                   | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL                      | AMOUNT (cubic feet)                            | METHOD OF PLACEMENT   |                                |                                 |  |
|   | FROM  | TO            |  |  |  |   |                                |                                 |  |
|   | 0   | 20            | 18   | cement   | 11   | Hand Mixed  |                                |                                 |  |
|   |   |               |  |  |  |   |                                |                                 |  |
|   |   |               |  |  |  |   |                                |                                 |  |
|   |   |               |  |  |  |   |                                |                                 |  |

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 01/28/2022)

|          |                  |                 |   |             |        |
|----------|------------------|-----------------|---|-------------|--------|
| FILE NO. | L-14650          | POD NO.         | 3 | TRN NO.     | 682828 |
| LOCATION | 17S.34E.25.1.1.2 | WELL TAG ID NO. |   | PAGE 1 OF 2 |        |




|                                     | DEPTH (feet bgl)   |   | THICKNESS<br>(feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED -<br>INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES<br><small>(attach supplemental sheets to fully describe all units)</small> | WATER BEARING?<br>(YES / NO) |                                       | ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm) |
|-------------------------------------|--|---|---------------------|---|------------------------------|---------------------------------------|---|
|                                     | FROM   | TO  |                     |   |                              |                                       |   |
| <b>4. HYDROGEOLOGIC LOG OF WELL</b> | 0  | 45  |                     | Rock  | Y                            | N                                     |   |
|                                     | 45   | 205   |                     | Sand  | ✓ Y                          | N                                     | 220.00  |
|                                     | 205  | 230   |                     | Yellow Clay   | Y                            | N                                     |   |
|                                     | 230  | 240   |                     | Sand  | Y                            | N                                     |   |
|                                     | 240  | 242   |                     | Brown Clay  | Y                            | N                                     |   |
|                                     | 242  | 250   |                     | Red Clay  | Y                            | N                                     |   |
|                                     |  |   |                     |   | Y                            | N                                     |   |
|                                     |  |   |                     |   | Y                            | N                                     |   |
|                                     |  |   |                     |   | Y                            | N                                     |   |
|                                     |  |   |                     |   | Y                            | N                                     |   |
|                                     |  |   |                     |   | Y                            | N                                     |   |
|                                     |  |   |                     |   | Y                            | N                                     |   |
|                                     |  |   |                     |   | Y                            | N                                     |   |
|                                     |  |   |                     |   | Y                            | N                                     |   |
|                                     |  |   |                     |   | Y                            | N                                     |   |
|                                     |  |   |                     |   | Y                            | N                                     |   |
|                                     |  |   |                     |   | Y                            | N                                     |   |
|                                     |  |   |                     |   | Y                            | N                                     |   |
|                                     |  |   |                     |   | Y                            | N                                     |   |
|                                     | METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:<br><input checked="" type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY: _____   |   |                     |   |                              | TOTAL ESTIMATED WELL YIELD (gpm): 220 |   |
| <b>5. TEST; RIG SUPERVISION</b>     | WELL TEST  | TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. |                     |   |                              |                                       |   |
|                                     | MISCELLANEOUS INFORMATION:   |   |                     |   |                              |                                       |   |
| <b>6. SIGNATURE</b>                 | PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:  |   |                     |   |                              |                                       |   |
|                                     | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:<br><br><div style="display: flex; justify-content: space-between;"> <span>Peter Louw Peter B Loewen</span> <span>6/13/2022</span> </div> <div style="display: flex; justify-content: space-between;"> <span>SIGNATURE OF DRILLER / PRINT SIGNEE NAME</span> <span>DATE</span> </div> |   |                     |   |                              |                                       |   |

|                      |                  |  |             |
|----------------------|------------------|--|-------------|
| FOR OSE INTERNAL USE |                  | WR-20 WELL RECORD & LOG (Version 01/28/2022) |             |
| FILE NO.             | L-14650          | POD NO.                                      | 3           |
| LOCATION             | 175.34E.25.1.1.7 | TRN NO.                                      | 682828      |
|                      |                  | WELL TAG ID NO                               | PAGE 2 OF 2 |



# New Mexico Office of the State Engineer

## Point of Diversion Summary

|                                |              |                                    |     |                              |     |                       |                               |         |   |
|--------------------------------|--------------|------------------------------------|-----|------------------------------|-----|-----------------------|-------------------------------|---------|---|
|                                |              | (quarters are 1=NW 2=NE 3=SW 4=SE) |     |                              |     | (NAD83 UTM in meters) |                               |         |   |
|                                |              | (quarters are smallest to largest) |     |                              |     |                       |                               |         |   |
| Well Tag                       | POD Number   | Q64                                | Q16 | Q4                           | Sec | Tws                   | Rng                           | X       | Y   |
| 21281                          | L 15461 POD1 | 4                                  | 2   | 2                            | 25  | 17S                   | 34E                           | 639790  | 3631339  |
| Driller License: 1753          |              | Driller Company:                   |     | VANGUARD WELL RESOURCES, LLC |     |                       |                               |         |   |
| Driller Name: JACOB FRIESEN    |              |                                    |     |                              |     |                       |                               |         |   |
| Drill Start Date: 05/11/2023   |              | Drill Finish Date:                 |     | 05/12/2023                   |     | Plug Date:            |                               |         |   |
| Log File Date: 05/18/2023      |              | PCW Rev Date:                      |     |                              |     | Source:               |                               | Shallow |   |
| Pump Type:                     |              | Pipe Discharge Size:               |     |                              |     | Estimated Yield:      |                               | 25 GPM  |   |
| Casing Size: 6.00              |              | Depth Well:                        |     | 234 feet                     |     | Depth Water:          |                               | 95 feet |   |
| Water Bearing Stratifications: |              |                                    |     |                              | Top | Bottom                | Description                   |         |   |
|                                |              |                                    |     |                              | 43  | 196                   | Sandstone/Gravel/Conglomerate |         |   |
|                                |              |                                    |     |                              | 196 | 223                   | Sandstone/Gravel/Conglomerate |         |   |
| Casing Perforations:           |              |                                    |     |                              | Top | Bottom                |                               |         |   |
|                                |              |                                    |     |                              | 174 | 234                   |                               |         |   |

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.

11/9/23 9:04 AM

POINT OF DIVERSION SUMMARY



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)


|  |   |               |  |   |  |  |  |                    |
|--|---|---------------|--|---|--|--|--|--------------------|
| 1. GENERAL AND WELL LOCATION   | OSE POD NO. (WELL NO.)<br>L-15461 POD1  |               | WELL TAG ID NO.<br>21281                   |   | OSE FILE NO(S).<br>L-15461                     |  |  |                    |
|  | WELL OWNER NAME(S)<br>CROSS TIMBERS ENERGY, LLC   |               |  |   | PHONE (OPTIONAL)                               |  |  |                    |
|  | WELL OWNER MAILING ADDRESS<br>400 W. 7TH STREET   |               |  |   | CITY STATE ZIP<br>FORT WORTH TX 76102          |  |  |                    |
|  | WELL LOCATION<br>(FROM GPS)   | DEGREES<br>32 | MINUTES<br>48                              | SECONDS<br>40   | * ACCURACY REQUIRED: ONE TENTH OF A SECOND     |  |  |                    |
|  |   | LATITUDE      | LONGITUDE                                  |   | * DATUM REQUIRED: WGS 84                       |  |  |                    |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE<br>SECTION 25 TOWNSHIP 17S RANGE 34E |   |               |  |   |  |  |  |                    |
| 2. DRILLING & CASING INFORMATION   | LICENSE NO.<br>WD-1753  |               | NAME OF LICENSED DRILLER<br>JACOB FRIESSEN |   |  | NAME OF WELL DRILLING COMPANY<br>VANGUARD        |  |                    |
|  | DRILLING STARTED<br>05-11-2023  |               | DRILLING ENDED<br>05-12-2023               |   | DEPTH OF COMPLETED WELL (FT)<br>234            |  | BORE HOLE DEPTH (FT)<br>234  |                    |
|  |   |               |  |   | DEPTH WATER FIRST ENCOUNTERED (FT)<br>95       |  |  |                    |
|  | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED) |               |  |   |  | STATIC WATER LEVEL IN COMPLETED WELL (FT)<br>110 |  |                    |
|  | DATE STATIC MEASURED<br>05-12-2023  |               |  |   |  |  |  |                    |
|  | DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD ADDITIVES - SPECIFY:   |               |  |   |  |  |  |                    |
|  | DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:   |               |  |   |  |  | CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input checked="" type="checkbox"/> |                    |
|  | DEPTH (feet bgl)  |               | BORE HOLE DIAM (inches)                    | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)  | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches)                     | CASING WALL THICKNESS (inches)   | SLOT SIZE (inches) |
|  | FROM  | TO            |  |   |  |  |  |                    |
|  | -1  | 174           | 10.5                                       | BLANK PVC SCH40   | GLUE 6.5                                       | 6  | .25  |                    |
| 174  | 234   | 10.5          | SCREEN PVC SCH40                           | GLUE 6.5  | 6  | .25  | .035   |                    |
|  |   |               |  |   |  |  |  |                    |
|  |   |               |  |   |  |  |  |                    |
|  |   |               |  |   |  |  |  |                    |
|  |   |               |  |   |  |  |  |                    |
|  |   |               |  |   |  |  |  |                    |
| 3. ANNULAR MATERIAL  | DEPTH (feet bgl)  |               | BORE HOLE DIAM. (inches)                   | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL<br><i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i> | AMOUNT (cubic feet)                            | METHOD OF PLACEMENT                              |  |                    |
|  | FROM  | TO            |  |   |  |  |  |                    |
|  | 0   | 20            | 10.5                                       | CONCRETE  | 7  | POURED   |  |                    |
|  | 20  | 164           | 10.5                                       | GRAVEL  | 53   | POURED   |  |                    |
|  | 164   | 234           | 10.5                                       | SILICA SAND   | 25   | POURED   |  |                    |
|  |   |               |  |   |  |  |  |                    |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

|          |            |         |                 |         |             |
|----------|------------|---------|-----------------|---------|-------------|
| FILE NO. | L-15461    | POD NO. | 1               | TRN NO. | 746069      |
| LOCATION | 17S.34E.25 | 422     | WELL TAG ID NO. | 21281   | PAGE 1 OF 2 |



| DEPTH (feet bgl)   | THICKNESS (feet)  |   | COLOR AND TYPE OF MATERIAL ENCOUNTERED -<br>INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES<br>(attach supplemental sheets to fully describe all units) | WATER BEARING?<br>(YES / NO)         | ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm) |
|--|---|---|--|--------------------------------------|---|
|  | FROM  | TO  |  |                                      |   |
| 0  | 43  | 43  | ROCK/CALICHE LAYERS  | Y ✓ N                                |   |
| 43   | 196   | 153   | SAND   | ✓ Y N                                | 15.00   |
| 196  | 223   | 27  | FINE GRAVEL CLAY MIXTURE   | ✓ Y N                                | 10  |
| 223  | 230   | 7   | LIMESTONE  | Y ✓ N                                |   |
| 230  | 234   | 4   | RED CLAY   | Y ✓ N                                |   |
|  |   |   |  | Y N                                  |   |
|  |   |   |  | Y N                                  |   |
|  |   |   |  | Y N                                  |   |
|  |   |   |  | Y N                                  |   |
|  |   |   |  | Y N                                  |   |
|  |   |   |  | Y N                                  |   |
|  |   |   |  | Y N                                  |   |
|  |   |   |  | Y N                                  |   |
|  |   |   |  | Y N                                  |   |
|  |   |   |  | Y N                                  |   |
|  |   |   |  | Y N                                  |   |
|  |   |   |  | Y N                                  |   |
|  |   |   |  | Y N                                  |   |
|  |   |   |  | Y N                                  |   |
|  |   |   |  | Y N                                  |   |
|  |   |   |  | Y N                                  |   |
|  |   |   |  | Y N                                  |   |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:<br><input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input checked="" type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY: |   |   |  | TOTAL ESTIMATED WELL YIELD (gpm): 25 |   |
| 5. TEST; RIG SUPERVISION   | WELL TEST   | TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. |  |                                      |   |
|  | MISCELLANEOUS INFORMATION:<br><div>QSE DTI MAY 16 2023 PM 2:45</div>  |   |  |                                      |   |
| PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:  |   |   |  |                                      |   |
| 6. SIGNATURE   | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: |   |  |                                      |   |
|  | <div> JACOB FRIESSEN</div> <div>05/15/2023</div> <div>SIGNATURE OF DRILLER / PRINT SIGNEE NAME</div> <div>DATE</div>   |   |  |                                      |   |

|                                |                  |  |             |
|--------------------------------|------------------|--|-------------|
| FOR OSE INTERNAL USE           |                  | WR-20 WELL RECORD & LOG (Version 09/22/2022) |             |
| FILE NO. <b>L-15461</b>        | POD NO. <b>A</b> | TRN NO. <b>746069</b>                        |             |
| LOCATION <b>175.34E.25 422</b> |                  | WELL TAG ID NO. <b>21281</b>                 | PAGE 2 OF 2 |

**NMSLO Seed Mix****Coarse (CS)****COARSE (CS) SITES SEED MIXTURE:**

| COMMON NAME           | VARIETY            | APPLICATION<br>RATE (PLS/Acre) | DRILL<br>BOX |
|-----------------------|--------------------|--------------------------------|--------------|
| <b>Grasses:</b>       |                    |                                |              |
| Sand bluestem         | VNS, Southern      | 2.0                            | F            |
| Sideoats grama        | Vaughn, El Reno    | 2.0                            | F            |
| Blue grama            | Hachita, Lovington | 1.5                            | D            |
| Little bluestem       | Cimmaron, Pastura  | 1.5                            | F            |
| Sand dropseed         | VNS, Southern      | 1.0                            | S            |
| Plains bristlegrass   | VNS, Southern      | 0.75                           | D            |
| <b>Forbs:</b>         |                    |                                |              |
| Parry penstemon       | VNS, Southern      | 1.0                            | D            |
| Desert globemallow    | VNS, Southern      | 1.0                            | D            |
| White prairieclover   | Kaneb, VNS         | 0.5                            | D            |
| Sulfur buckwheat      | VNS, Southern      | 0.5                            | D            |
| <b>Shrubs:</b>        |                    |                                |              |
| Fourwing saltbush     | VNS, Southern      | 1.0                            | D            |
| Skunkbush sumac       | VNS, Southern      | 1.0                            | D            |
| Common winterfat      | VNS, Southern      | 1.0                            | F            |
| Fringed sagewort      | VNS, Southern      | 0.5                            | F            |
| <b>Total PLS/acre</b> |                    | <b>18.25</b>                   |              |

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

- VNS, Southern – No Variety Stated, seed should be from a southern latitude collection of this species.
- Double above seed rates for broadcast or hydroseeding.
- If Parry is not available, substitute firecracker penstemon.
- If desert globemallow is not available, substitute scarlet globemallow.
- If one species is not available, provide a suggested substitute to the New Mexico Land Office for approval. Increasing all other species proportionately may be acceptable.







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

November 10, 2023

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: NVA 246

Enclosed are the results of analyses for samples received by the laboratory on 11/06/23 15:16.

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:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 11/06/2023  
 Reported: 11/10/2023  
 Project Name: NVA 246  
 Project Number: NONE GIVEN  
 Project Location: HOBBS, NM

Sampling Date: 11/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DV-001.0-00.0-S (H236074-01)**

| 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>0.785</b> | 0.200           | 11/08/2023 | ND              | 2.10 | 105        | 2.00          | 10.6 |           |
| <b>Toluene*</b>       | <b>8.97</b>  | 0.200           | 11/08/2023 | ND              | 2.11 | 105        | 2.00          | 10.9 |           |
| <b>Ethylbenzene*</b>  | <b>17.0</b>  | 0.200           | 11/08/2023 | ND              | 2.12 | 106        | 2.00          | 11.5 |           |
| <b>Total Xylenes*</b> | <b>30.0</b>  | 0.600           | 11/08/2023 | ND              | 6.54 | 109        | 6.00          | 10.0 |           |
| <b>Total BTX</b>      | <b>56.7</b>  | 1.20            | 11/08/2023 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 148 % 71.5-134

| Chloride, SM4500Cl-B |            | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>160</b> | 16.0            | 11/08/2023 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M                  |              | mg/kg           |            | Analyzed By: MS |     |            |               | S-06 |           |
|----------------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result       | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>GRO C6-C10*</b>         | <b>1160</b>  | 50.0            | 11/09/2023 | ND              | 180 | 89.8       | 200           | 2.84 |           |
| <b>DRO &gt;C10-C28*</b>    | <b>35000</b> | 50.0            | 11/09/2023 | ND              | 190 | 95.2       | 200           | 2.82 |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>9520</b>  | 50.0            | 11/09/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 204 % 48.2-134

Surrogate: 1-Chlorooctadecane 1110 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 11/06/2023  
 Reported: 11/10/2023  
 Project Name: NVA 246  
 Project Number: NONE GIVEN  
 Project Location: HOBBS, NM

Sampling Date: 11/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DV-001.0-01.0-S (H236074-02)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 11/08/2023 | ND              | 2.10 | 105        | 2.00          | 10.6 |           |
| Toluene*       | <0.050 | 0.050           | 11/08/2023 | ND              | 2.11 | 105        | 2.00          | 10.9 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 11/08/2023 | ND              | 2.12 | 106        | 2.00          | 11.5 |           |
| Total Xylenes* | <0.150 | 0.150           | 11/08/2023 | ND              | 6.54 | 109        | 6.00          | 10.0 |           |
| Total BTEX     | <0.300 | 0.300           | 11/08/2023 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 1720   | 16.0            | 11/08/2023 | 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            | 11/09/2023 | ND              | 180 | 89.8       | 200           | 2.84 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 11/09/2023 | ND              | 190 | 95.2       | 200           | 2.82 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 11/09/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 11/06/2023  
 Reported: 11/10/2023  
 Project Name: NVA 246  
 Project Number: NONE GIVEN  
 Project Location: HOBBS, NM

Sampling Date: 11/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DV-001.0-03.0-S (H236074-03)**

| 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           | 11/08/2023 | ND              | 2.10 | 105        | 2.00          | 10.6 |           |  |
| Toluene*       | <0.050 | 0.050           | 11/08/2023 | ND              | 2.11 | 105        | 2.00          | 10.9 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 11/08/2023 | ND              | 2.12 | 106        | 2.00          | 11.5 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 11/08/2023 | ND              | 6.54 | 109        | 6.00          | 10.0 |           |  |
| Total BTEX     | <0.300 | 0.300           | 11/08/2023 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 1580   | 16.0            | 11/08/2023 | 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            | 11/09/2023 | ND              | 180 | 89.8       | 200           | 2.84 |           |
| DRO >C10-C28*    | 65.9   | 10.0            | 11/09/2023 | ND              | 190 | 95.2       | 200           | 2.82 |           |
| EXT DRO >C28-C36 | 57.5   | 10.0            | 11/09/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 11/06/2023  
 Reported: 11/10/2023  
 Project Name: NVA 246  
 Project Number: NONE GIVEN  
 Project Location: HOBBS, NM

Sampling Date: 11/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DH-001.0-01.0-S (H236074-04)**

| 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           | 11/08/2023 | ND              | 2.10 | 105        | 2.00          | 10.6 |           |  |
| Toluene*       | <0.050 | 0.050           | 11/08/2023 | ND              | 2.11 | 105        | 2.00          | 10.9 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 11/08/2023 | ND              | 2.12 | 106        | 2.00          | 11.5 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 11/08/2023 | ND              | 6.54 | 109        | 6.00          | 10.0 |           |  |
| Total BTEX     | <0.300 | 0.300           | 11/08/2023 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 192    | 16.0            | 11/08/2023 | 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            | 11/09/2023 | ND              | 180 | 89.8       | 200           | 2.84 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 11/09/2023 | ND              | 190 | 95.2       | 200           | 2.82 |           |
| EXT DRO >C28-C36 | 29.4   | 10.0            | 11/09/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 11/06/2023  
 Reported: 11/10/2023  
 Project Name: NVA 246  
 Project Number: NONE GIVEN  
 Project Location: HOBBS, NM

Sampling Date: 11/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DH-002.0-01.0-S (H236074-05)**

| 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           | 11/08/2023 | ND              | 2.10 | 105        | 2.00          | 10.6 |           |  |
| Toluene*       | <0.050 | 0.050           | 11/08/2023 | ND              | 2.11 | 105        | 2.00          | 10.9 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 11/08/2023 | ND              | 2.12 | 106        | 2.00          | 11.5 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 11/08/2023 | ND              | 6.54 | 109        | 6.00          | 10.0 |           |  |
| Total BTEX     | <0.300 | 0.300           | 11/08/2023 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 128    | 16.0            | 11/08/2023 | 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            | 11/09/2023 | ND              | 180 | 89.8       | 200           | 2.84 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 11/09/2023 | ND              | 190 | 95.2       | 200           | 2.82 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 11/09/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 11/06/2023  
 Reported: 11/10/2023  
 Project Name: NVA 246  
 Project Number: NONE GIVEN  
 Project Location: HOBBS, NM

Sampling Date: 11/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DH-003.0-01.0-S (H236074-06)**

| 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           | 11/07/2023 | ND               | 2.16 | 108        | 2.00          | 8.74 |           |
| Toluene*       | <0.050 | 0.050           | 11/07/2023 | ND               | 2.04 | 102        | 2.00          | 8.71 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 11/07/2023 | ND               | 2.19 | 109        | 2.00          | 8.65 |           |
| Total Xylenes* | <0.150 | 0.150           | 11/07/2023 | ND               | 6.50 | 108        | 6.00          | 9.10 |           |
| Total BTEX     | <0.300 | 0.300           | 11/07/2023 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16.0   | 16.0            | 11/08/2023 | 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            | 11/09/2023 | ND              | 180 | 89.8       | 200           | 2.84 |           |
| DRO >C10-C28*    | 676    | 10.0            | 11/09/2023 | ND              | 190 | 95.2       | 200           | 2.82 |           |
| EXT DRO >C28-C36 | 601    | 10.0            | 11/09/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 11/06/2023  
 Reported: 11/10/2023  
 Project Name: NVA 246  
 Project Number: NONE GIVEN  
 Project Location: HOBBS, NM

Sampling Date: 11/02/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DH-004.0-01.0-S (H236074-07)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH/ |      |            |               |      |           |
|----------------|--------|-----------------|------------|------------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank     | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 11/07/2023 | ND               | 2.16 | 108        | 2.00          | 8.74 |           |
| Toluene*       | <0.050 | 0.050           | 11/07/2023 | ND               | 2.04 | 102        | 2.00          | 8.71 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 11/07/2023 | ND               | 2.19 | 109        | 2.00          | 8.65 |           |
| Total Xylenes* | <0.150 | 0.150           | 11/07/2023 | ND               | 6.50 | 108        | 6.00          | 9.10 |           |
| Total BTEX     | <0.300 | 0.300           | 11/07/2023 | ND               |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 32.0   | 16.0            | 11/08/2023 | ND              | 416 | 104        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               | S-06 |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <50.0  | 50.0            | 11/09/2023 | ND              | 180 | 89.8       | 200           | 2.84 |           |
| DRO >C10-C28*    | 13000  | 50.0            | 11/09/2023 | ND              | 190 | 95.2       | 200           | 2.82 |           |
| EXT DRO >C28-C36 | 5840   | 50.0            | 11/09/2023 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 379 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

### 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<br>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



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

|   |  |                        |                                 |                                     |                          |                                    |            |                     |  |                 |         |   |                |                  |          |     |      |  |  |  |  |  |  |  |
|---|--|------------------------|---------------------------------|-------------------------------------|--------------------------|------------------------------------|------------|---------------------|--|-----------------|---------|---|----------------|------------------|----------|-----|------|--|--|--|--|--|--|--|
| Company Name: Trinity Oilfield Services   |  |                        |                                 |                                     |                          | BILL TO                            |            |                     |  |                 |         |   |                | ANALYSIS REQUEST |          |     |      |  |  |  |  |  |  |  |
| Project Manager: Dan Dunkelberg   |  |                        |                                 |                                     |                          | P.O. #:                            |            |                     |  |                 |         |   |                |                  |          |     |      |  |  |  |  |  |  |  |
| Address: 8426 N Dal Paso  |  |                        |                                 |                                     |                          | Company: Cross Timbers Energy      |            |                     |  |                 |         |   |                |                  |          |     |      |  |  |  |  |  |  |  |
| City: Hobbs   |  |                        | State: NM Zip: 88241            |                                     |                          | Attn: Kevin Bennet                 |            |                     |  |                 |         |   |                |                  |          |     |      |  |  |  |  |  |  |  |
| Phone #:  |  |                        | Fax #:                          |                                     |                          | Address:                           |            |                     |  |                 |         |   |                |                  |          |     |      |  |  |  |  |  |  |  |
| Project #:  |  |                        | Project Owner: (see below)      |                                     |                          | City:                              |            |                     |  |                 |         |   |                |                  |          |     |      |  |  |  |  |  |  |  |
| Project Name: NVA 246   |  |                        | dan@trinityoilfieldservices.com |                                     |                          | State:                             |            | Zip:                |  |                 |         |   |                |                  |          |     |      |  |  |  |  |  |  |  |
| Project Location:   |  |                        |                                 |                                     |                          | Phone #:                           |            |                     |  |                 |         |   |                |                  |          |     |      |  |  |  |  |  |  |  |
| Sampler Name: PT  |  |                        |                                 |                                     |                          | Fax #:                             |            |                     |  |                 |         |   |                |                  |          |     |      |  |  |  |  |  |  |  |
| FOR LAB USE ONLY  |  |                        |                                 |                                     |                          | MATRIX                             |            | PRESERV.            |  | SAMPLING        |         |   |                |                  |          |     |      |  |  |  |  |  |  |  |
| Lab I.D.  |  | Sample I.D.            |                                 | (G)RAB OR (C)JUMP.                  | # CONTAINERS             | GROUNDWATER                        | WASTEWATER | SOIL                | OIL  | SLUDGE          | OTHER : | ACID/BASE:<br>ICE / COOL  | DATE           | TIME             | Chloride | TPH | BTEX |  |  |  |  |  |  |  |
| H236074<br>Y1   |  | DV-001.0-00.0-S        |                                 | G                                   | 1                        |                                    |            | X                   |  |                 |         |   | 11/2/2023      |                  | X        | X   | X    |  |  |  |  |  |  |  |
| Y2  |  | DV-001.0-01.0-S        |                                 | G                                   | 1                        |                                    |            | X                   |  |                 |         |   | 11/2/2023      |                  | X        | X   | X    |  |  |  |  |  |  |  |
| 3   |  | DV-001.0-03.0-S        |                                 | G                                   | 1                        |                                    |            | X                   |  |                 |         |   | 11/2/2023      |                  | X        | X   | X    |  |  |  |  |  |  |  |
| 4   |  | DH-001.0-01.0-S        |                                 | G                                   | 1                        |                                    |            | X                   |  |                 |         |   | 11/2/2023      |                  | X        | X   | X    |  |  |  |  |  |  |  |
| 5   |  | DH-002.0-01.0-S        |                                 | G                                   | 1                        |                                    |            | X                   |  |                 |         |   | 11/2/2023      |                  | X        | X   | X    |  |  |  |  |  |  |  |
| 6   |  | DH-003.0-01.0-S        |                                 | G                                   | 1                        |                                    |            | X                   |  |                 |         |   | 11/2/2023      |                  | X        | X   | X    |  |  |  |  |  |  |  |
| 7   |  | DH-004.0-01.0-S        |                                 | G                                   | 1                        |                                    |            | X                   |  |                 |         |   | 11/2/2023      |                  | X        | X   | X    |  |  |  |  |  |  |  |
|   |  | ---                    |                                 |                                     |                          |                                    |            |                     |  |                 |         |   |                |                  |          |     |      |  |  |  |  |  |  |  |
|   |  | ---                    |                                 |                                     |                          |                                    |            |                     |  |                 |         |   |                |                  |          |     |      |  |  |  |  |  |  |  |
|   |  | ---                    |                                 |                                     |                          |                                    |            |                     |  |                 |         |   |                |                  |          |     |      |  |  |  |  |  |  |  |
| <p>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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p> |  |                        |                                 |                                     |                          |                                    |            |                     |  |                 |         |   |                |                  |          |     |      |  |  |  |  |  |  |  |
| Relinquished By: [Signature]  |  |                        |                                 | Date: 11-6-23                       | Received By: [Signature] |                                    |            |                     | Verbal Result:   |                 | Yes     | No  | Add'l Phone #: |                  |          |     |      |  |  |  |  |  |  |  |
|   |  |                        |                                 | Time: 12:16                         |                          |                                    |            |                     | All Results are emailed. Please provide Email address: |                 |         |   |                |                  |          |     |      |  |  |  |  |  |  |  |
| Relinquished By:  |  |                        |                                 | Date:                               | Received By:             |                                    |            |                     | REMARKS:   |                 |         |   |                |                  |          |     |      |  |  |  |  |  |  |  |
|   |  |                        |                                 | Time:                               |                          |                                    |            |                     |  |                 |         |   |                |                  |          |     |      |  |  |  |  |  |  |  |
| Delivered By: (Circle One)  |  | Observed Temp. °C -9.0 |                                 | Sample Condition Cool Intact Yes No |                          | CHECKED BY: (Initials) [Signature] |            | Turnaround Time:    |  | Standard Rush X |         | Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Corrected Temp. °C |                |                  |          |     |      |  |  |  |  |  |  |  |
| Sampler - UPS - Bus - Other:  |  | Corrected Temp. °C     |                                 | Cool Intact Yes No                  |                          |                                    |            | Thermometer ID #140 |  |                 |         | Cool Intact Observed Temp. °C Corrected Temp. °C                                  |                |                  |          |     |      |  |  |  |  |  |  |  |

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)





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

---

November 29, 2023

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: NVA 246

Enclosed are the results of analyses for samples received by the laboratory on 11/22/23 13:19.

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:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 11/22/2023  
 Reported: 11/29/2023  
 Project Name: NVA 246  
 Project Number: NONE GIVEN  
 Project Location: HOBBS, NM

Sampling Date: 11/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DH-003.1-01.0-S (H236376-01)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 11/27/2023 | ND              | 1.83 | 91.5       | 2.00          | 12.9 |           |  |
| Toluene*       | <0.050 | 0.050           | 11/27/2023 | ND              | 1.92 | 96.2       | 2.00          | 12.8 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 11/27/2023 | ND              | 1.94 | 97.2       | 2.00          | 13.1 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 11/27/2023 | ND              | 5.84 | 97.3       | 6.00          | 12.7 |           |  |
| Total BTX      | <0.300 | 0.300           | 11/27/2023 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 32.0   | 16.0            | 11/27/2023 | 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            | 11/27/2023 | ND              | 212 | 106        | 200           | 0.174 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 11/27/2023 | ND              | 196 | 98.2       | 200           | 1.33  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 11/27/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 65.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.3 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 11/22/2023  
 Reported: 11/29/2023  
 Project Name: NVA 246  
 Project Number: NONE GIVEN  
 Project Location: HOBBS, NM

Sampling Date: 11/21/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DH-004.1-01.0-S (H236376-02)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 11/27/2023 | ND              | 1.83 | 91.5       | 2.00          | 12.9 |           |
| Toluene*       | <0.050 | 0.050           | 11/27/2023 | ND              | 1.92 | 96.2       | 2.00          | 12.8 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 11/27/2023 | ND              | 1.94 | 97.2       | 2.00          | 13.1 |           |
| Total Xylenes* | <0.150 | 0.150           | 11/27/2023 | ND              | 5.84 | 97.3       | 6.00          | 12.7 |           |
| Total BTEX     | <0.300 | 0.300           | 11/27/2023 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 64.0   | 16.0            | 11/27/2023 | 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            | 11/27/2023 | ND              | 212 | 106        | 200           | 0.174 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 11/27/2023 | ND              | 196 | 98.2       | 200           | 1.33  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 11/27/2023 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QR-03      The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)





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

March 18, 2024

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: NVA 246

Enclosed are the results of analyses for samples received by the laboratory on 03/12/24 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 03/12/2024  
 Reported: 03/18/2024  
 Project Name: NVA 246  
 Project Number: NONE GIVEN  
 Project Location: CROSS TIMBERS -HOBBS, NM

Sampling Date: 03/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DV-001.0-04.0-S (H241260-01)**

| Chloride, SM4500Cl-B          |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|-------------------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte                       | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                      | 1100   | 16.0            | 03/14/2024 | 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            | 03/13/2024 | ND              | 192 | 95.8       | 200           | 3.73 |           |
| DRO >C10-C28*                 | <10.0  | 10.0            | 03/13/2024 | ND              | 192 | 95.9       | 200           | 4.29 |           |
| EXT DRO >C28-C36              | <10.0  | 10.0            | 03/13/2024 | ND              |     |            |               |      |           |
|                               |        |                 |            |                 |     |            |               |      |           |
| Surrogate: 1-Chlorooctane     | 97.5 % | 48.2-134        |            |                 |     |            |               |      |           |
| Surrogate: 1-Chlorooctadecane | 120 %  | 49.1-148        |            |                 |     |            |               |      |           |

**Sample ID: DV-001.0-06.0-S (H241260-02)**

| Chloride, SM4500Cl-B          |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|-------------------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte                       | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                      | 480    | 16.0            | 03/14/2024 | 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            | 03/13/2024 | ND              | 192 | 95.8       | 200           | 3.73 |           |
| DRO >C10-C28*                 | <10.0  | 10.0            | 03/13/2024 | ND              | 192 | 95.9       | 200           | 4.29 |           |
| EXT DRO >C28-C36              | <10.0  | 10.0            | 03/13/2024 | ND              |     |            |               |      |           |
|                               |        |                 |            |                 |     |            |               |      |           |
| Surrogate: 1-Chlorooctane     | 104 %  | 48.2-134        |            |                 |     |            |               |      |           |
| Surrogate: 1-Chlorooctadecane | 129 %  | 49.1-148        |            |                 |     |            |               |      |           |

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 03/12/2024  
 Reported: 03/18/2024  
 Project Name: NVA 246  
 Project Number: NONE GIVEN  
 Project Location: CROSS TIMBERS -HOBBS, NM

Sampling Date: 03/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: DV-001.0-07.0-S (H241260-03)**

| Chloride, SM4500Cl-B          |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|-------------------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte                       | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                      | 144    | 16.0            | 03/14/2024 | 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            | 03/13/2024 | ND              | 192 | 95.8       | 200           | 3.73 |           |
| DRO >C10-C28*                 | <10.0  | 10.0            | 03/13/2024 | ND              | 192 | 95.9       | 200           | 4.29 |           |
| EXT DRO >C28-C36              | <10.0  | 10.0            | 03/13/2024 | ND              |     |            |               |      |           |
|                               |        |                 |            |                 |     |            |               |      |           |
| Surrogate: 1-Chlorooctane     | 98.1 % | 48.2-134        |            |                 |     |            |               |      |           |
| Surrogate: 1-Chlorooctadecane | 121 %  | 49.1-148        |            |                 |     |            |               |      |           |

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

---

**Notes and Definitions**

|     |  |
|-----|--|
| ND  | Analyte NOT DETECTED at or above the reporting limit   |
| RPD | Relative Percent Difference  |
| **  | Samples not received at proper temperature of 6°C or below.  |
| *** | Insufficient time to reach temperature.  |
| -   | Chloride by SM4500Cl-B does not require samples be received at or below 6°C<br>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

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)





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

May 13, 2024

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: NVA 246

Enclosed are the results of analyses for samples received by the laboratory on 05/07/24 15:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 05/07/2024               | Sampling Date:      | 05/07/2024     |
| Reported:         | 05/13/2024               | Sampling Type:      | Soil           |
| Project Name:     | NVA 246                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN               | Sample Received By: | Tamara Oldaker |
| Project Location: | CROSS TIMBERS -HOBBS, NM |                     |                |

**Sample ID: CF-001.0-05.0-S (H242482-01)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/10/2024 | ND              | 1.98 | 99.1       | 2.00          | 2.59 |           |
| Toluene*       | <0.050 | 0.050           | 05/10/2024 | ND              | 2.06 | 103        | 2.00          | 2.05 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/10/2024 | ND              | 2.06 | 103        | 2.00          | 1.77 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/10/2024 | ND              | 6.35 | 106        | 6.00          | 1.83 |           |
| Total BTX      | <0.300 | 0.300           | 05/10/2024 | ND              |      |            |               |      |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 288    | 16.0            | 05/09/2024 | ND              | 448 | 112        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 05/09/2024 | ND              | 179 | 89.4       | 200           | 2.28 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/09/2024 | ND              | 176 | 87.8       | 200           | 3.65 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/09/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 05/07/2024  
 Reported: 05/13/2024  
 Project Name: NVA 246  
 Project Number: NONE GIVEN  
 Project Location: CROSS TIMBERS -HOBBS, NM

Sampling Date: 05/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CF-002.0-05.0-S (H242482-02)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 05/10/2024 | ND              | 1.98 | 99.1       | 2.00          | 2.59 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/10/2024 | ND              | 2.06 | 103        | 2.00          | 2.05 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/10/2024 | ND              | 2.06 | 103        | 2.00          | 1.77 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/10/2024 | ND              | 6.35 | 106        | 6.00          | 1.83 |           |  |
| Total BTEX     | <0.300 | 0.300           | 05/10/2024 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 272    | 16.0            | 05/09/2024 | ND              | 448 | 112        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 05/09/2024 | ND              | 179 | 89.4       | 200           | 2.28 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/09/2024 | ND              | 176 | 87.8       | 200           | 3.65 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/09/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 05/07/2024  
 Reported: 05/13/2024  
 Project Name: NVA 246  
 Project Number: NONE GIVEN  
 Project Location: CROSS TIMBERS -HOBBS, NM

Sampling Date: 05/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CF-003.0-05.0-S (H242482-03)**

| 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           | 05/10/2024 | ND              | 1.98 | 99.1       | 2.00          | 2.59 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/10/2024 | ND              | 2.06 | 103        | 2.00          | 2.05 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/10/2024 | ND              | 2.06 | 103        | 2.00          | 1.77 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/10/2024 | ND              | 6.35 | 106        | 6.00          | 1.83 |           |  |
| Total BTEX     | <0.300 | 0.300           | 05/10/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 288    | 16.0            | 05/09/2024 | ND              | 448 | 112        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 05/09/2024 | ND              | 179 | 89.4       | 200           | 2.28 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/09/2024 | ND              | 176 | 87.8       | 200           | 3.65 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/09/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 71.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 05/07/2024  
 Reported: 05/13/2024  
 Project Name: NVA 246  
 Project Number: NONE GIVEN  
 Project Location: CROSS TIMBERS -HOBBS, NM

Sampling Date: 05/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CF-004.0-06.0-S (H242482-04)**

| 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           | 05/11/2024 | ND              | 1.98 | 99.1       | 2.00          | 2.59 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/11/2024 | ND              | 2.06 | 103        | 2.00          | 2.05 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/11/2024 | ND              | 2.06 | 103        | 2.00          | 1.77 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/11/2024 | ND              | 6.35 | 106        | 6.00          | 1.83 |           |  |
| Total BTEX     | <0.300 | 0.300           | 05/11/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 448    | 16.0            | 05/09/2024 | ND              | 448 | 112        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 05/10/2024 | ND              | 194 | 97.2       | 200           | 1.11 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/10/2024 | ND              | 198 | 99.2       | 200           | 1.72 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/10/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 05/07/2024  
 Reported: 05/13/2024  
 Project Name: NVA 246  
 Project Number: NONE GIVEN  
 Project Location: CROSS TIMBERS -HOBBS, NM

Sampling Date: 05/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CF-005.0-06.0-S (H242482-05)**

| 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           | 05/11/2024 | ND              | 1.98 | 99.1       | 2.00          | 2.59 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/11/2024 | ND              | 2.06 | 103        | 2.00          | 2.05 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/11/2024 | ND              | 2.06 | 103        | 2.00          | 1.77 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/11/2024 | ND              | 6.35 | 106        | 6.00          | 1.83 |           |  |
| Total BTEX     | <0.300 | 0.300           | 05/11/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 608    | 16.0            | 05/09/2024 | ND              | 448 | 112        | 400           | 0.00 |           |  |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 05/10/2024 | ND              | 194 | 97.2       | 200           | 1.11 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/10/2024 | ND              | 198 | 99.2       | 200           | 1.72 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/10/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

---

**Notes and Definitions**

|     |  |
|-----|--|
| ND  | Analyte NOT DETECTED at or above the reporting limit   |
| RPD | Relative Percent Difference  |
| **  | Samples not received at proper temperature of 6°C or below.  |
| *** | Insufficient time to reach temperature.  |
| -   | Chloride by SM4500Cl-B does not require samples be received at or below 6°C<br>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

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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

---

May 13, 2024

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: NVA 246

Enclosed are the results of analyses for samples received by the laboratory on 05/07/24 15:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

|                   |                          |                     |                |
|-------------------|--------------------------|---------------------|----------------|
| Received:         | 05/07/2024               | Sampling Date:      | 05/07/2024     |
| Reported:         | 05/13/2024               | Sampling Type:      | Soil           |
| Project Name:     | NVA 246                  | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN               | Sample Received By: | Tamara Oldaker |
| Project Location: | CROSS TIMBERS -HOBBS, NM |                     |                |

**Sample ID: CW-001.0-05.0-S (H242483-01)**

| 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           | 05/11/2024 | ND              | 1.98 | 99.1       | 2.00          | 2.59 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/11/2024 | ND              | 2.06 | 103        | 2.00          | 2.05 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/11/2024 | ND              | 2.06 | 103        | 2.00          | 1.77 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/11/2024 | ND              | 6.35 | 106        | 6.00          | 1.83 |           |  |
| Total BTEX     | <0.300 | 0.300           | 05/11/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 304    | 16.0            | 05/10/2024 | 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            | 05/10/2024 | ND              | 194 | 97.2       | 200           | 1.11 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/10/2024 | ND              | 198 | 99.2       | 200           | 1.72 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/10/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 05/07/2024  
 Reported: 05/13/2024  
 Project Name: NVA 246  
 Project Number: NONE GIVEN  
 Project Location: CROSS TIMBERS -HOBBS, NM

Sampling Date: 05/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CW-002.0-06.0-S (H242483-02)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 05/11/2024 | ND              | 1.98 | 99.1       | 2.00          | 2.59 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/11/2024 | ND              | 2.06 | 103        | 2.00          | 2.05 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/11/2024 | ND              | 2.06 | 103        | 2.00          | 1.77 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/11/2024 | ND              | 6.35 | 106        | 6.00          | 1.83 |           |  |
| Total BTEX     | <0.300 | 0.300           | 05/11/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 576    | 16.0            | 05/10/2024 | 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            | 05/10/2024 | ND              | 194 | 97.2       | 200           | 1.11 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/10/2024 | ND              | 198 | 99.2       | 200           | 1.72 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/10/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 05/07/2024  
 Reported: 05/13/2024  
 Project Name: NVA 246  
 Project Number: NONE GIVEN  
 Project Location: CROSS TIMBERS -HOBBS, NM

Sampling Date: 05/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CW-003.0-06.0-S (H242483-03)**

| 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           | 05/11/2024 | ND              | 1.98 | 99.1       | 2.00          | 2.59 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/11/2024 | ND              | 2.06 | 103        | 2.00          | 2.05 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/11/2024 | ND              | 2.06 | 103        | 2.00          | 1.77 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/11/2024 | ND              | 6.35 | 106        | 6.00          | 1.83 |           |  |
| Total BTEX     | <0.300 | 0.300           | 05/11/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 528    | 16.0            | 05/10/2024 | 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            | 05/10/2024 | ND              | 194 | 97.2       | 200           | 1.11 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/10/2024 | ND              | 198 | 99.2       | 200           | 1.72 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/10/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 05/07/2024  
 Reported: 05/13/2024  
 Project Name: NVA 246  
 Project Number: NONE GIVEN  
 Project Location: CROSS TIMBERS -HOBBS, NM

Sampling Date: 05/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CW-004.0-05.0-S (H242483-04)**

| 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           | 05/11/2024 | ND              | 1.98 | 99.1       | 2.00          | 2.59 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/11/2024 | ND              | 2.06 | 103        | 2.00          | 2.05 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/11/2024 | ND              | 2.06 | 103        | 2.00          | 1.77 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/11/2024 | ND              | 6.35 | 106        | 6.00          | 1.83 |           |  |
| Total BTEX     | <0.300 | 0.300           | 05/11/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 160    | 16.0            | 05/10/2024 | 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            | 05/10/2024 | ND              | 194 | 97.2       | 200           | 1.11 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 05/10/2024 | ND              | 198 | 99.2       | 200           | 1.72 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 05/10/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



---

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

---

### Notes and Definitions

|     |  |
|-----|--|
| ND  | Analyte NOT DETECTED at or above the reporting limit   |
| RPD | Relative Percent Difference  |
| **  | Samples not received at proper temperature of 6°C or below.  |
| *** | Insufficient time to reach temperature.  |
| -   | Chloride by SM4500Cl-B does not require samples be received at or below 6°C<br>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

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)





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

June 05, 2024

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: NVA 246

Enclosed are the results of analyses for samples received by the laboratory on 05/31/24 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 DAN DUNKELBERG  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received: 05/31/2024  
 Reported: 06/05/2024  
 Project Name: NVA 246  
 Project Number: NONE GIVEN  
 Project Location: CROSS TIMBERS -HOBBS, NM

Sampling Date: 05/31/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CF-005.0-06.5-S (H243057-01)**

| 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           | 06/03/2024 | ND              | 1.77 | 88.3       | 2.00          | 2.68  |           |
| Toluene*       | <0.050 | 0.050           | 06/03/2024 | ND              | 1.88 | 94.0       | 2.00          | 0.429 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/03/2024 | ND              | 1.88 | 93.9       | 2.00          | 2.38  |           |
| Total Xylenes* | <0.150 | 0.150           | 06/03/2024 | ND              | 5.84 | 97.3       | 6.00          | 2.32  |           |
| Total BTEX     | <0.300 | 0.300           | 06/03/2024 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 240    | 16.0            | 06/04/2024 | 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            | 06/03/2024 | ND              | 182 | 91.0       | 200           | 4.26 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/03/2024 | ND              | 193 | 96.3       | 200           | 7.71 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/03/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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

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



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

### Notes and Definitions

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

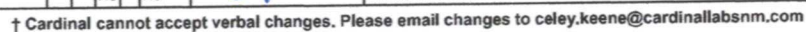
Cardinal Laboratories

\*=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", is written over a horizontal line.

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





|   |  |   |                                       |  |  |                                  |  |                                 |   |                                  |  |
|---|--|---|---------------------------------------|--|--|----------------------------------|--|---------------------------------|---|----------------------------------|--|
| LEASE OPERATOR/SHIPPER/COMPANY: <u>Cross Timbers</u>  |  | DATE: <u>5-2-24</u>                                   |                                       |  |  |                                  |  |                                 |   |                                  |  |
| LEASE NAME: <u>NVA Unit 246</u>   |  | TIME: <u>11:33</u> AM/PM                              |                                       |  |  |                                  |  |                                 |   |                                  |  |
| RIG NAME & NUMBER:  |  | VEHICLE NO: <u>206</u>                                |                                       |  |  |                                  |  |                                 |   |                                  |  |
| TRANSPORTER COMPANY: <u>Trinity</u>   |  | PHONE:  |                                       |  |  |                                  |  |                                 |   |                                  |  |
| GENERATOR COMPANY MAN'S NAME: <u>Kevin Bennett</u>  |  | PHONE:  |                                       |  |  |                                  |  |                                 |   |                                  |  |
| CHARGE TO: <u>Cross Timbers</u>   |  |   |                                       |  |  |                                  |  |                                 |   |                                  |  |
| <table><tr><td rowspan="2">TYPE OF MATERIAL</td><td><input type="checkbox"/> Tank Bottoms</td><td><input type="checkbox"/> Drilling Fluids</td><td><input type="checkbox"/> Rinsate</td><td><input type="checkbox"/> BS&amp;W Content:</td></tr><tr><td><input type="checkbox"/> Solids</td><td><input checked="" type="checkbox"/> Contaminated Soil</td><td><input type="checkbox"/> Jet Out</td><td></td></tr></table>   |  |   | TYPE OF MATERIAL                      | <input type="checkbox"/> Tank Bottoms                | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |  |
| TYPE OF MATERIAL  | <input type="checkbox"/> Tank Bottoms                | <input type="checkbox"/> Drilling Fluids              |                                       | <input type="checkbox"/> Rinsate                     | <input type="checkbox"/> BS&W Content:   |                                  |  |                                 |   |                                  |  |
|   | <input type="checkbox"/> Solids                      | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out      |  |  |                                  |  |                                 |   |                                  |  |
| Description: <u>OD</u>  |  |   |                                       |  |  |                                  |  |                                 |   |                                  |  |
| VOLUME OF MATERIAL  |  |   |                                       |  |  |                                  |  |                                 |   |                                  |  |
| <table><tr><td><input type="checkbox"/> BBLs. _____:</td><td><input checked="" type="checkbox"/> YARD <u>12</u>:</td><td><input type="checkbox"/> _____:</td></tr></table>  |  |   | <input type="checkbox"/> BBLs. _____: | <input checked="" type="checkbox"/> YARD <u>12</u> : | <input type="checkbox"/> _____:          |                                  |  |                                 |   |                                  |  |
| <input type="checkbox"/> BBLs. _____:   | <input checked="" type="checkbox"/> YARD <u>12</u> : | <input type="checkbox"/> _____:                       |                                       |  |  |                                  |  |                                 |   |                                  |  |
| RRC or API # <u>C-133#</u>  |  |   |                                       |  |  |                                  |  |                                 |   |                                  |  |
| <div><div>STICKERS, CODES, NUMBERS, ETC.</div><div>AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.<br/><br/>ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.</div></div> |  |   |                                       |  |  |                                  |  |                                 |   |                                  |  |
| <p><b>THIS WILL CERTIFY</b> that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.</p>  |  |   |                                       |  |  |                                  |  |                                 |   |                                  |  |
| DRIVER: _____<br>(SIGNATURE)  |  |   |                                       |  |  |                                  |  |                                 |   |                                  |  |
| FACILITY REPRESENTATIVE: _____<br>(SIGNATURE)   |  |   |                                       |  |  |                                  |  |                                 |   |                                  |  |
| White - Sundance      Canary - Sundance Acct #1      Pink - Transporter   |  |   |                                       |  |  |                                  |  |                                 |   |                                  |  |
| Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c   |  |   |                                       |  |  |                                  |  |                                 |   |                                  |  |



|  |  |                             |
|--|--|-----------------------------|
| LEASE OPERATOR/SHIPPER/COMPANY: <u>Timber</u>      |  | DATE: <u>5/3/2024</u>       |
| LEASE NAME: <u>NVA 298</u>                         |  | TIME: <u>3:13</u> AM/PM     |
| RIG NAME & NUMBER:                                 |  | VEHICLE NO: <u>701</u>      |
| TRANSPORTER COMPANY: <u>Timber</u>                 |  | PHONE:                      |
| GENERATOR COMPANY MAN'S NAME: <u>Kevin Bernell</u> |  | PHONE: <u>(575) 635-180</u> |

## CHARGE TO:

|                         |                                       |   |                                  |  |
|-------------------------|---------------------------------------|---|----------------------------------|--|
| TYPE OF MATERIAL        | <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate | <input type="checkbox"/> BS&W Content: |
|                         | <input type="checkbox"/> Solids       | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |  |
| Description: <u>Oil</u> |                                       |   |                                  |  |
| VOLUME OF MATERIAL      | <input type="checkbox"/> BBLs. _____: | <input checked="" type="checkbox"/> YARD <u>20</u> :  | <input type="checkbox"/> _____:  |  |
|                         |                                       |   |                                  |  |
| RRC or API #            |                                       | C-133# <u>NVA</u>                                     |                                  |  |

## STICKERS, CODES, NUMBERS, ETC.

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: Timber

(SIGNATURE)

FACILITY REPRESENTATIVE: Estefania P

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c



|  |  |   |                                  |                    |  |   |                                  |  |                                 |   |                                  |       |
|--|--|---|----------------------------------|--------------------|--|---|----------------------------------|--|---------------------------------|---|----------------------------------|-------|
| LEASE OPERATOR/SHIPPER/COMPANY: <u>Timber</u>  |  | DATE: <u>7/17/2024</u>                                |                                  |                    |  |   |                                  |  |                                 |   |                                  |       |
| LEASE NAME: <u>NVA 296</u>   |  | TIME: <u>2:14</u> AM/PM                               |                                  |                    |  |   |                                  |  |                                 |   |                                  |       |
| RIG NAME & NUMBER:   |  | VEHICLE NO: <u>32070</u>                              |                                  |                    |  |   |                                  |  |                                 |   |                                  |       |
| TRANSPORTER COMPANY: <u>Timber</u>   |  | PHONE:  |                                  |                    |  |   |                                  |  |                                 |   |                                  |       |
| GENERATOR COMPANY MAN'S NAME: <u>Kevin Penell</u>  |  | PHONE: <u>(505) 338150</u>                            |                                  |                    |  |   |                                  |  |                                 |   |                                  |       |
| CHARGE TO: <u>Cross Timber</u>   |  |   |                                  |                    |  |   |                                  |  |                                 |   |                                  |       |
| <table><tr><td rowspan="2">TYPE OF MATERIAL</td><td><input type="checkbox"/> Tank Bottoms</td><td><input type="checkbox"/> Drilling Fluids</td><td><input type="checkbox"/> Rinsate</td><td><input type="checkbox"/> BS&amp;W Content:</td></tr><tr><td><input type="checkbox"/> Solids</td><td><input checked="" type="checkbox"/> Contaminated Soil</td><td><input type="checkbox"/> Jet Out</td><td>_____</td></tr></table>   |  |   |                                  | TYPE OF MATERIAL   | <input type="checkbox"/> Tank Bottoms  | <input type="checkbox"/> Drilling Fluids            | <input type="checkbox"/> Rinsate | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out | _____ |
| TYPE OF MATERIAL   | <input type="checkbox"/> Tank Bottoms  | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate |                    | <input type="checkbox"/> BS&W Content: |   |                                  |  |                                 |   |                                  |       |
|  | <input type="checkbox"/> Solids        | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out | _____              |  |   |                                  |  |                                 |   |                                  |       |
| Description: _____   |  |   |                                  |                    |  |   |                                  |  |                                 |   |                                  |       |
| <table><tr><td rowspan="2">VOLUME OF MATERIAL</td><td><input type="checkbox"/> BBLs. _____ :</td><td><input checked="" type="checkbox"/> YARD <u>2</u> :</td><td><input type="checkbox"/> _____ :</td></tr></table>  |  |   |                                  | VOLUME OF MATERIAL | <input type="checkbox"/> BBLs. _____ : | <input checked="" type="checkbox"/> YARD <u>2</u> : | <input type="checkbox"/> _____ : |  |                                 |   |                                  |       |
| VOLUME OF MATERIAL   | <input type="checkbox"/> BBLs. _____ : | <input checked="" type="checkbox"/> YARD <u>2</u> :   | <input type="checkbox"/> _____ : |                    |  |   |                                  |  |                                 |   |                                  |       |
|  | RRC or API # _____ C-133# <u>NVA</u>   |   |                                  |                    |  |   |                                  |  |                                 |   |                                  |       |
| <div><div><b>STICKERS, CODES, NUMBERS, ETC.</b></div><div>AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.<br/><br/>ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.</div></div> |  |   |                                  |                    |  |   |                                  |  |                                 |   |                                  |       |
| <p><b>THIS WILL CERTIFY</b> that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.</p>   |  |   |                                  |                    |  |   |                                  |  |                                 |   |                                  |       |
| DRIVER: <u>[Signature]</u><br>(SIGNATURE)  |  |   |                                  |                    |  |   |                                  |  |                                 |   |                                  |       |
| FACILITY REPRESENTATIVE: <u>[Signature]</u><br>(SIGNATURE)   |  |   |                                  |                    |  |   |                                  |  |                                 |   |                                  |       |
| White - Sundance      Canary - Sundance Acct #1      Pink - Transporter  |  |   |                                  |                    |  |   |                                  |  |                                 |   |                                  |       |
| Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c  |  |   |                                  |                    |  |   |                                  |  |                                 |   |                                  |       |



|   |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
|---|---------------------------------------|---|----------------------------------|---------------------------------------|--|----------------------------------|--|---------------------------------|---|----------------------------------|--|
| LEASE OPERATOR/SHIPPER/COMPANY:   |                                       | DATE:   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| LEASE NAME:   |                                       | TIME: AM/PM   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| RIG NAME & NUMBER:  |                                       | VEHICLE NO:   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| TRANSPORTER COMPANY:  |                                       | PHONE:  |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| GENERATOR COMPANY MAN'S NAME:   |                                       | PHONE:  |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| CHARGE TO:  |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| <table><tr><td rowspan="2">TYPE OF MATERIAL</td><td><input type="checkbox"/> Tank Bottoms</td><td><input type="checkbox"/> Drilling Fluids</td><td><input type="checkbox"/> Rinsate</td><td><input type="checkbox"/> BS&amp;W Content:</td></tr><tr><td><input type="checkbox"/> Solids</td><td><input checked="" type="checkbox"/> Contaminated Soil</td><td><input type="checkbox"/> Jet Out</td><td></td></tr></table>   |                                       |   | TYPE OF MATERIAL                 | <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |  |
| TYPE OF MATERIAL  | <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Drilling Fluids              |                                  | <input type="checkbox"/> Rinsate      | <input type="checkbox"/> BS&W Content:   |                                  |  |                                 |   |                                  |  |
|   | <input type="checkbox"/> Solids       | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |                                       |  |                                  |  |                                 |   |                                  |  |
| Description:  |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| VOLUME OF MATERIAL  |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| <table><tr><td><input type="checkbox"/> BBLs.</td><td>:</td><td><input checked="" type="checkbox"/> YARD</td><td>:</td><td><input type="checkbox"/></td></tr></table>   |                                       |   | <input type="checkbox"/> BBLs.   | :                                     | <input checked="" type="checkbox"/> YARD | :                                | <input type="checkbox"/>               |                                 |   |                                  |  |
| <input type="checkbox"/> BBLs.  | :                                     | <input checked="" type="checkbox"/> YARD              | :                                | <input type="checkbox"/>              |  |                                  |  |                                 |   |                                  |  |
| RRC or API # C-133#   |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| <div><div>STICKERS, CODES, NUMBERS, ETC.</div><div>AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.<br/><br/>ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.</div></div> |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| <p><b>THIS WILL CERTIFY</b> that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.</p>  |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| DRIVER: <u>Hugo Olivarez</u>  |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| (SIGNATURE)   |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| FACILITY REPRESENTATIVE: <u>Eduardo P.</u>  |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| (SIGNATURE)   |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| White - Sundance      Canary - Sundance Acct #1      Pink - Transporter   |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c   |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |



|  |  |                             |
|--|--|-----------------------------|
| LEASE OPERATOR/SHIPPER/COMPANY: <i>Timbers</i>     |  | DATE: <i>5/13/2024</i>      |
| LEASE NAME: <i>NVA 246</i>                         |  | TIME: <i>11:30</i> AM/PM    |
| RIG NAME & NUMBER:                                 |  | VEHICLE NO: <i>526700</i>   |
| TRANSPORTER COMPANY: <i>Trinity</i>                |  | PHONE:                      |
| GENERATOR COMPANY MAN'S NAME: <i>Kevin Bennett</i> |  | PHONE: <i>(575) 513-515</i> |

CHARGE TO: *(1033 Timbers)*

## TYPE OF MATERIAL

☐ Tank Bottoms    ☐ Drilling Fluids    ☐ Rinsate    ☐ BS&W Content:  
☐ Solids    ☒ Contaminated Soil    ☐ Jet Out    \_\_\_\_\_

Description: \_\_\_\_\_

## VOLUME OF MATERIAL

☐ BBLs. \_\_\_\_\_ :    ☒ YARD *20* :    ☐ \_\_\_\_\_

RRC or API #

C-133# *NNI*

## STICKERS, CODES, NUMBERS, ETC.

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: *Sinda*

(SIGNATURE)

FACILITY REPRESENTATIVE: *Estefania P.*

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c



|  |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
|--|---------------------------------------|---|----------------------------------|---------------------------------------|--|----------------------------------|--|---------------------------------|---|----------------------------------|--|
| LEASE OPERATOR/SHIPPER/COMPANY: <u>Cross Timbers</u>   |                                       | DATE: <u>5/3/2024</u>                                 |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| LEASE NAME: <u>NVA 296</u>   |                                       | TIME: <u>9:18</u> AM/PM                               |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| RIG NAME & NUMBER:   |                                       | VEHICLE NO: <u>526700</u>                             |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| TRANSPORTER COMPANY: <u>Trinity</u>  |                                       | PHONE:  |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| GENERATOR COMPANY MAN'S NAME: <u>Kevin Benoit</u>  |                                       | PHONE: <u>(575) 5138150</u>                           |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| CHARGE TO: <u>Cross Timbers</u>  |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| <table><tr><td rowspan="2">TYPE OF MATERIAL</td><td><input type="checkbox"/> Tank Bottoms</td><td><input type="checkbox"/> Drilling Fluids</td><td><input type="checkbox"/> Rinsate</td><td><input type="checkbox"/> BS&amp;W Content:</td></tr><tr><td><input type="checkbox"/> Solids</td><td><input checked="" type="checkbox"/> Contaminated Soil</td><td><input type="checkbox"/> Jet Out</td><td></td></tr></table> Description: <u>X 015</u>  |                                       |   | TYPE OF MATERIAL                 | <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |  |
| TYPE OF MATERIAL   | <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Drilling Fluids              |                                  | <input type="checkbox"/> Rinsate      | <input type="checkbox"/> BS&W Content:   |                                  |  |                                 |   |                                  |  |
|  | <input type="checkbox"/> Solids       | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |                                       |  |                                  |  |                                 |   |                                  |  |
| VOLUME OF MATERIAL <input type="checkbox"/> BBLs. _____ : <input checked="" type="checkbox"/> YARD <u>20</u> : <input type="checkbox"/> _____  |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| RRC or API # <u>C-133# NM</u>  |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| <div><div><b>STICKERS, CODES, NUMBERS, ETC.</b></div><div>AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.<br/><br/>ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.</div></div> |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| <b>THIS WILL CERTIFY</b> that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.  |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| DRIVER: <u>[Signature]</u><br>(SIGNATURE)  |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| FACILITY REPRESENTATIVE: <u>Estefania P</u><br>(SIGNATURE)   |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| White - Sundance      Canary - Sundance Acct #1      Pink - Transporter  |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c  |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |



|  |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
|--|---------------------------------------|---|----------------------------------|---------------------------------------|--|----------------------------------|--|---------------------------------|---|----------------------------------|--|
| LEASE OPERATOR/SHIPPER/COMPANY: <u>Timber</u>  |                                       | DATE: <u>5/3/24</u>                                   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| LEASE NAME: <u>NVA 296</u>   |                                       | TIME: <u>12:11</u> AM/PM                              |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| RIG NAME & NUMBER:   |                                       | VEHICLE NO: <u>649</u>                                |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| TRANSPORTER COMPANY: <u>Timber</u>   |                                       | PHONE:  |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| GENERATOR COMPANY MAN'S NAME: <u>Kevin Bevil</u>   |                                       | PHONE: <u>(505) 330-0000</u>                          |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| CHARGE TO: <u>Cross Timber</u>   |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| <table><tr><td rowspan="2">TYPE OF MATERIAL</td><td><input type="checkbox"/> Tank Bottoms</td><td><input type="checkbox"/> Drilling Fluids</td><td><input type="checkbox"/> Rinsate</td><td><input type="checkbox"/> BS&amp;W Content:</td></tr><tr><td><input type="checkbox"/> Solids</td><td><input checked="" type="checkbox"/> Contaminated Soil</td><td><input type="checkbox"/> Jet Out</td><td></td></tr></table>  |                                       |   | TYPE OF MATERIAL                 | <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |  |
| TYPE OF MATERIAL   | <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Drilling Fluids              |                                  | <input type="checkbox"/> Rinsate      | <input type="checkbox"/> BS&W Content:   |                                  |  |                                 |   |                                  |  |
|  | <input type="checkbox"/> Solids       | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |                                       |  |                                  |  |                                 |   |                                  |  |
| Description: _____   |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| VOLUME OF MATERIAL <input type="checkbox"/> BBLs. _____: <input checked="" type="checkbox"/> YARD <u>20</u> : <input type="checkbox"/> _____   |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| RRC or API # _____ C-133# <u>NNI</u>   |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| <div><div><b>STICKERS, CODES, NUMBERS, ETC.</b></div><div>AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.<br/><br/>ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.</div></div> |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| <p><b>THIS WILL CERTIFY</b> that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.</p> <p>DRIVER: <u>Hugo O'lvarez</u><br/>(SIGNATURE)</p> <p>FACILITY REPRESENTATIVE: <u>Estelina P</u><br/>(SIGNATURE)</p> <p>White - Sundance      Canary - Sundance Acct #1      Pink - Transporter</p> <p>Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c</p>   |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |



|   |  |   |  |  |  |                                  |  |                                 |   |                                  |  |
|---|--|---|--|--|--|----------------------------------|--|---------------------------------|---|----------------------------------|--|
| LEASE OPERATOR/SHIPPER/COMPANY: <u>Cross Timbers</u>  |  | DATE: <u>5/3/2024</u>                                 |  |  |  |                                  |  |                                 |   |                                  |  |
| LEASE NAME: <u>NVA 246</u>  |  | TIME: <u>9:42</u> AM/PM                               |  |  |  |                                  |  |                                 |   |                                  |  |
| RIG NAME & NUMBER:  |  | VEHICLE NO: <u>694</u>                                |  |  |  |                                  |  |                                 |   |                                  |  |
| TRANSPORTER COMPANY: <u>Trinity</u>   |  | PHONE:  |  |  |  |                                  |  |                                 |   |                                  |  |
| GENERATOR COMPANY MAN'S NAME: <u>Kevin Bennett</u>  |  | PHONE: <u>(512) 313 8120</u>                          |  |  |  |                                  |  |                                 |   |                                  |  |
| CHARGE TO: <u>Cross Timbers</u>   |  |   |  |  |  |                                  |  |                                 |   |                                  |  |
| <table><tr><td rowspan="2">TYPE OF MATERIAL</td><td><input type="checkbox"/> Tank Bottoms</td><td><input type="checkbox"/> Drilling Fluids</td><td><input type="checkbox"/> Rinsate</td><td><input type="checkbox"/> BS&amp;W Content:</td></tr><tr><td><input type="checkbox"/> Solids</td><td><input checked="" type="checkbox"/> Contaminated Soil</td><td><input type="checkbox"/> Jet Out</td><td></td></tr></table> |  |   | TYPE OF MATERIAL                       | <input type="checkbox"/> Tank Bottoms                | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |  |
| TYPE OF MATERIAL  | <input type="checkbox"/> Tank Bottoms                | <input type="checkbox"/> Drilling Fluids              |  | <input type="checkbox"/> Rinsate                     | <input type="checkbox"/> BS&W Content:   |                                  |  |                                 |   |                                  |  |
|   | <input type="checkbox"/> Solids                      | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out       |  |  |                                  |  |                                 |   |                                  |  |
| Description: <u>X Oil</u>   |  |   |  |  |  |                                  |  |                                 |   |                                  |  |
| VOLUME OF MATERIAL  |  |   |  |  |  |                                  |  |                                 |   |                                  |  |
| <table><tr><td><input type="checkbox"/> BBLs. _____ :</td><td><input checked="" type="checkbox"/> YARD <u>20</u> :</td><td><input type="checkbox"/> _____ :</td></tr></table>   |  |   | <input type="checkbox"/> BBLs. _____ : | <input checked="" type="checkbox"/> YARD <u>20</u> : | <input type="checkbox"/> _____ :         |                                  |  |                                 |   |                                  |  |
| <input type="checkbox"/> BBLs. _____ :  | <input checked="" type="checkbox"/> YARD <u>20</u> : | <input type="checkbox"/> _____ :                      |  |  |  |                                  |  |                                 |   |                                  |  |
| RRC or API # _____ C-133# <u>1NM</u>  |  |   |  |  |  |                                  |  |                                 |   |                                  |  |

## STICKERS, CODES, NUMBERS, ETC.

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: Hugo O. Huarez

(SIGNATURE)

FACILITY REPRESENTATIVE: Estefania P

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c



|   |   |   |  |   |  |                                  |  |                                 |   |                                  |  |
|---|---|---|--|---|--|----------------------------------|--|---------------------------------|---|----------------------------------|--|
| LEASE OPERATOR/SHIPPER/COMPANY:   |   | DATE: 5/3/2024  |  |   |  |                                  |  |                                 |   |                                  |  |
| LEASE NAME: NVA 296   |   | TIME: 12:22 AM/PM                                     |  |   |  |                                  |  |                                 |   |                                  |  |
| RIG NAME & NUMBER:  |   | VEHICLE NO: 026701                                    |  |   |  |                                  |  |                                 |   |                                  |  |
| TRANSPORTER COMPANY: Unity  |   | PHONE:  |  |   |  |                                  |  |                                 |   |                                  |  |
| GENERATOR COMPANY MAN'S NAME: Kevin Garrett   |   | PHONE: (512) 338-1200                                 |  |   |  |                                  |  |                                 |   |                                  |  |
| CHARGE TO: (1055 Timber)  |   |   |  |   |  |                                  |  |                                 |   |                                  |  |
| <table><tr><td rowspan="2">TYPE OF MATERIAL</td><td><input type="checkbox"/> Tank Bottoms</td><td><input type="checkbox"/> Drilling Fluids</td><td><input type="checkbox"/> Rinsate</td><td><input type="checkbox"/> BS&amp;W Content:</td></tr><tr><td><input type="checkbox"/> Solids</td><td><input checked="" type="checkbox"/> Contaminated Soil</td><td><input type="checkbox"/> Jet Out</td><td></td></tr></table>   |   |   | TYPE OF MATERIAL                       | <input type="checkbox"/> Tank Bottoms               | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |  |
| TYPE OF MATERIAL  | <input type="checkbox"/> Tank Bottoms               | <input type="checkbox"/> Drilling Fluids              |  | <input type="checkbox"/> Rinsate                    | <input type="checkbox"/> BS&W Content:   |                                  |  |                                 |   |                                  |  |
|   | <input type="checkbox"/> Solids                     | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out       |   |  |                                  |  |                                 |   |                                  |  |
| Description: _____  |   |   |  |   |  |                                  |  |                                 |   |                                  |  |
| VOLUME OF MATERIAL  |   |   |  |   |  |                                  |  |                                 |   |                                  |  |
| <table><tr><td><input type="checkbox"/> BBLs. _____ :</td><td><input checked="" type="checkbox"/> YARD 20 _____ :</td><td><input type="checkbox"/> _____ :</td></tr></table>  |   |   | <input type="checkbox"/> BBLs. _____ : | <input checked="" type="checkbox"/> YARD 20 _____ : | <input type="checkbox"/> _____ :         |                                  |  |                                 |   |                                  |  |
| <input type="checkbox"/> BBLs. _____ :  | <input checked="" type="checkbox"/> YARD 20 _____ : | <input type="checkbox"/> _____ :                      |  |   |  |                                  |  |                                 |   |                                  |  |
| RRC or API # _____ C-133# NVA   |   |   |  |   |  |                                  |  |                                 |   |                                  |  |
| <div><div>STICKERS, CODES, NUMBERS, ETC.</div><div>AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.<br/><br/>ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.</div></div> |   |   |  |   |  |                                  |  |                                 |   |                                  |  |
| <p><b>THIS WILL CERTIFY</b> that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.</p>  |   |   |  |   |  |                                  |  |                                 |   |                                  |  |
| DRIVER: _____<br>(SIGNATURE)  |   |   |  |   |  |                                  |  |                                 |   |                                  |  |
| FACILITY REPRESENTATIVE: _____<br>(SIGNATURE)   |   |   |  |   |  |                                  |  |                                 |   |                                  |  |
| White - Sundance      Canary - Sundance Acct #1      Pink - Transporter   |   |   |  |   |  |                                  |  |                                 |   |                                  |  |
| Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c   |   |   |  |   |  |                                  |  |                                 |   |                                  |  |



|   |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
|---|---------------------------------------|---|----------------------------------|---------------------------------------|--|----------------------------------|--|---------------------------------|---|----------------------------------|--|
| LEASE OPERATOR/SHIPPER/COMPANY: <u>Timber</u>   |                                       | DATE: <u>5/3/2024</u>                                 |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| LEASE NAME: <u>NVA 246</u>  |                                       | TIME: <u>10:00</u> AM/PM                              |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| RIG NAME & NUMBER:  |                                       | VEHICLE NO: <u>526701</u>                             |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| TRANSPORTER COMPANY: <u>Timberly</u>  |                                       | PHONE:  |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| GENERATOR COMPANY MAN'S NAME: <u>Kevin P. Hinch</u>   |                                       | PHONE: <u>(575) 913-8121</u>                          |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| CHARGE TO: <u>Cross Timber</u>  |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| <table><tr><td rowspan="2">TYPE OF MATERIAL</td><td><input type="checkbox"/> Tank Bottoms</td><td><input type="checkbox"/> Drilling Fluids</td><td><input type="checkbox"/> Rinsate</td><td><input type="checkbox"/> BS&amp;W Content:</td></tr><tr><td><input type="checkbox"/> Solids</td><td><input checked="" type="checkbox"/> Contaminated Soil</td><td><input type="checkbox"/> Jet Out</td><td></td></tr></table> Description: <u>OD</u>  |                                       |   | TYPE OF MATERIAL                 | <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |  |
| TYPE OF MATERIAL  | <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Drilling Fluids              |                                  | <input type="checkbox"/> Rinsate      | <input type="checkbox"/> BS&W Content:   |                                  |  |                                 |   |                                  |  |
|   | <input type="checkbox"/> Solids       | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |                                       |  |                                  |  |                                 |   |                                  |  |
| VOLUME OF MATERIAL<br><input type="checkbox"/> BBLs. _____ : <input checked="" type="checkbox"/> YARD <u>20</u> : <input type="checkbox"/> _____  |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| RRC or API # _____ C-133# <u>NM</u>   |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| <div><div>STICKERS, CODES, NUMBERS, ETC.</div><div>AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.<br/><br/>ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.</div></div> |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| <p><b>THIS WILL CERTIFY</b> that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.</p> <p>DRIVER: <u>Kevin P. Hinch</u><br/>(SIGNATURE)</p> <p>FACILITY REPRESENTATIVE: <u>Kevin P. Hinch</u><br/>(SIGNATURE)</p> <p>White - Sundance      Canary - Sundance Acct #1      Pink - Transporter</p> <p>Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c</p>   |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |



|  |                                       |   |                                  |  |
|--|---------------------------------------|---|----------------------------------|--|
| LEASE NAME: NVA 296                      |                                       | TIME: 8:47 AM/PM                                      |                                  |  |
| RIG NAME & NUMBER:                       |                                       | VEHICLE NO: 226700                                    |                                  |  |
| TRANSPORTER COMPANY: Trinity             |                                       | PHONE:  |                                  |  |
| GENERATOR COMPANY MAN'S NAME: Kevin Penh |                                       | PHONE: (575) 313-1501                                 |                                  |  |
| CHARGE TO: Cross Timbers                 |                                       |   |                                  |  |
| TYPE OF MATERIAL                         | <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Rinsate | <input type="checkbox"/> BS&W Content: |
|  | <input type="checkbox"/> Solids       | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |  |
| Description: _____                       |                                       |   |                                  |  |
| VOLUME OF MATERIAL                       | <input type="checkbox"/> BBLs. _____  | <input checked="" type="checkbox"/> YARD 20 _____     | <input type="checkbox"/> _____   |  |
|  | C-133# (NVA)                          |   |                                  |  |
| RRC or API # _____                       |                                       |   |                                  |  |

## STICKERS, CODES, NUMBERS, ETC.

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c



Received by OCD: 7/17/2024 10:00:39 AM

|  |  |                     |
|--|--|---------------------|
| LEASE OPERATOR/SHIPPER/COMPANY:            |  | DATE: 7/17/2024     |
| LEASE NAME: NVA 246                        |  | TIME: 10:31 AM/PM   |
| RIG NAME & NUMBER:                         |  | VEHICLE NO: 326700  |
| TRANSPORTER COMPANY: Triply                |  | PHONE:              |
| GENERATOR COMPANY MAN'S NAME: Kevin Bonett |  | PHONE: (575) 133124 |

|                    |                                       |  |  |
|--------------------|---------------------------------------|--|--|
| CHARGE TO:         |                                       |  |  |
| TYPE OF MATERIAL   | <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Drilling Fluids   | <input type="checkbox"/> Rinsate       |
|                    | <input type="checkbox"/> Solids       | <input type="checkbox"/> Contaminated Soil | <input type="checkbox"/> BS&W Content: |
| Description:       |                                       |  |  |
| VOLUME OF MATERIAL | <input type="checkbox"/> BBLs         | <input type="checkbox"/> YARD 20           | <input type="checkbox"/>               |
|                    | RRC or API # C-133#                   |  |  |

**STICKERS, CODES, NUMBERS, ETC.**

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: \_\_\_\_\_  
(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_  
(SIGNATURE)

White - Sundance      Canary - Sundance Acct #1      Pink - Transporter



|   |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
|---|---------------------------------------|---|----------------------------------|---------------------------------------|--|----------------------------------|--|---------------------------------|---|----------------------------------|--|
| LEASE OPERATOR/SHIPPER/COMPANY: <i>Trinity</i>  |                                       | DATE: <i>5/6/2024</i>                                 |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| LEASE NAME: <i>NVA 246</i>  |                                       | TIME: <i>1:57</i> AM/PM                               |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| RIG NAME & NUMBER:  |                                       | VEHICLE NO: <i>226700</i>                             |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| TRANSPORTER COMPANY: <i>Trinity</i>   |                                       | PHONE:  |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| GENERATOR COMPANY MAN'S NAME: <i>Kevin Bennett</i>  |                                       | PHONE: <i>(575) 135150</i>                            |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| CHARGE TO: <i>(YOS)</i>   |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| <table><tr><td rowspan="2">TYPE OF MATERIAL</td><td><input type="checkbox"/> Tank Bottoms</td><td><input type="checkbox"/> Drilling Fluids</td><td><input type="checkbox"/> Rinsate</td><td><input type="checkbox"/> BS&amp;W Content:</td></tr><tr><td><input type="checkbox"/> Solids</td><td><input checked="" type="checkbox"/> Contaminated Soil</td><td><input type="checkbox"/> Jet Out</td><td></td></tr></table> Description: _____  |                                       |   | TYPE OF MATERIAL                 | <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Drilling Fluids | <input type="checkbox"/> Rinsate | <input type="checkbox"/> BS&W Content: | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |  |
| TYPE OF MATERIAL  | <input type="checkbox"/> Tank Bottoms | <input type="checkbox"/> Drilling Fluids              |                                  | <input type="checkbox"/> Rinsate      | <input type="checkbox"/> BS&W Content:   |                                  |  |                                 |   |                                  |  |
|   | <input type="checkbox"/> Solids       | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Jet Out |                                       |  |                                  |  |                                 |   |                                  |  |
| VOLUME OF MATERIAL<br><input type="checkbox"/> BBLs. _____ : <input checked="" type="checkbox"/> YARD <i>20</i> : <input type="checkbox"/> _____  |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| RRC or API #  |                                       | C-133# <i>NM</i>                                      |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| <div><div>STICKERS, CODES, NUMBERS, ETC.</div><div>AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.<br/><br/>ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET. TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.</div></div> |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |
| <p><b>THIS WILL CERTIFY</b> that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.</p> <p>DRIVER: _____<br/>(SIGNATURE)</p> <p>FACILITY REPRESENTATIVE: _____<br/>(SIGNATURE)</p> <p>White - Sundance      Canary - Sundance Acct #1      Pink - Transporter</p> <p>Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c</p>   |                                       |   |                                  |                                       |  |                                  |  |                                 |   |                                  |  |



|  |  |                     |
|--|--|---------------------|
| LEASE OPERATOR/SHIPPER/COMPANY:              |  | DATE: 5/16/2024     |
| LEASE NAME: NVA 290                          |  | TIME: 8:30 AM/PM    |
| RIG NAME & NUMBER:                           |  | VEHICLE NO: 526701  |
| TRANSPORTER COMPANY: Trinity                 |  | PHONE:              |
| GENERATOR COMPANY MAN'S NAME: Kevin B. Smith |  | PHONE: (573) 573812 |

## CHARGE TO: CROSS

TYPE OF MATERIAL ☐ Tank Bottoms ☐ Drilling Fluids ☐ Rinsate ☐ BS&W Content:  
☐ Solids ☒ Contaminated Soil ☐ Jet Out

Description: \_\_\_\_\_

VOLUME OF MATERIAL ☐ BBLs. \_\_\_\_\_: ☒ YARD 20 \_\_\_\_\_: ☐ \_\_\_\_\_

RRC or API # C-133# NM

## STICKERS, CODES, NUMBERS, ETC.

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c



RIG NAME & NUMBER:

DATE: **5/6/2024**

TIME: **11:01** AM/PM

VEHICLE NO: **26701**

TRANSPORTER COMPANY: **Trinity**

PHONE:

GENERATOR COMPANY MAN'S NAME: **Kevin Bennett**

PHONE: **(575) 373-1500**

CHARGE TO: **Cross Tankers**

TYPE OF MATERIAL

☐ Tank Bottoms ☐ Drilling Fluids ☐ Rinsate ☐ BS&W Content:  
☐ Solids ☒ Contaminated Soil ☐ Jet Out

Description: **X 00**

VOLUME OF MATERIAL

☐ BBLS. : ☒ YARD **20** : ☐

RRC or API #

C-133# **NM1**

STICKERS, CODES, NUMBERS, ETC.

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: **11/10/18**

(SIGNATURE)

FACILITY REPRESENTATIVE: **Estefania P.**

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c



LEASE NAME:

NVA 296

DATE:

5/16/2024

TIME: 2:00 AM/PM

RIG NAME &amp; NUMBER:

VEHICLE NO: 526701

TRANSPORTER COMPANY:

TIPNHY

PHONE:

GENERATOR COMPANY MAN'S NAME:

Kevin B. B. B.

PHONE:

(973) 138150

CHARGE TO:

11055

TYPE OF MATERIAL

☐ Tank Bottoms☐ Drilling Fluids☐ Rinsate☐ BS&W Content:☐ Solids☒ Contaminated Soil☐ Jet Out

Description:

VOLUME OF MATERIAL

☐ BBLs. \_\_\_\_\_☒ YARD 204☐ \_\_\_\_\_

RRC or API #

C-133#

NM

STICKERS, CODES, NUMBERS, ETC.

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001 et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

**THIS WILL CERTIFY** that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER:

(SIGNATURE)

FACILITY REPRESENTATIVE:

(SIGNATURE)

White - Sundance

Canary - Sundance Acct #1

Pink - Transporter

Reorder from: Vertigo Creative Services LLC • www.VertigoCreative.com • Form#SDI-004c

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

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

QUESTIONS  
  
Action 357854

QUESTIONS

|   |   |
|---|---|
| Operator:<br>CROSS TIMBERS ENERGY, LLC<br>400 West 7th Street<br>Fort Worth, TX 76102 | OGRID:<br>298299  |
|   | Action Number:<br>357854  |
|   | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
|   |   |

QUESTIONS

|                  |  |
|------------------|--|
| Prerequisites    |  |
| Incident ID (n#) | nAPP2326134968   |
| Incident Name    | NAPP2326134968 NORTH VACUUM ABO UNIT #246 @ 30-025-28587 |
| Incident Type    | Produced Water Release                                   |
| Incident Status  | Remediation Closure Report Received                      |
| Incident Well    | [30-025-28587] NORTH VACUUM ABO UNIT #246                |

|  |                            |
|--|----------------------------|
| Location of Release Source                     |                            |
| Please answer all the questions in this group. |                            |
| Site Name                                      | NORTH VACUUM ABO UNIT #246 |
| Date Release Discovered                        | 09/15/2023                 |
| Surface Owner                                  | State                      |

|  |                        |
|--|------------------------|
| Incident Details   |                        |
| Please answer all the questions in this group.   |                        |
| Incident Type  | Produced Water Release |
| Did this release result in a fire or is the result of a fire   | No                     |
| Did this release result in any injuries  | No                     |
| Has this release reached or does it have a reasonable probability of reaching a watercourse          | No                     |
| Has this release endangered or does it have a reasonable probability of endangering public health    | No                     |
| Has this release substantially damaged or will it substantially damage property or the environment   | No                     |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No                     |

|  |   |
|--|---|
| Nature and Volume of Release   |   |
| Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission. |   |
| Crude Oil Released (bbls) Details  | Cause: Equipment Failure   Other (Specify)   Crude Oil   Released: 2 BBL   Recovered: 2 BBL   Lost: 0 BBL.      |
| Produced Water Released (bbls) Details   | Cause: Equipment Failure   Other (Specify)   Produced Water   Released: 5 BBL   Recovered: 4 BBL   Lost: 1 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l  | No  |
| Condensate Released (bbls) Details   | Not answered.   |
| Natural Gas Vented (Mcf) Details   | Not answered.   |
| Natural Gas Flared (Mcf) Details   | Not answered.   |
| Other Released Details   | Not answered.   |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)                                 | Not answered.   |

**District I**

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

**District II**

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

**District III**

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

**District IV**

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

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

QUESTIONS, Page 2

Action 357854

**QUESTIONS (continued)**

|   |                |   |
|---|----------------|---|
| Operator:<br>CROSS TIMBERS ENERGY, LLC<br>400 West 7th Street<br>Fort Worth, TX 76102 | OGRID:         | 298299  |
|   | Action Number: | 357854  |
|   | Action Type:   | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
|   |                |   |

**QUESTIONS**

|   |   |
|---|---|
| <b>Nature and Volume of Release (continued)</b>   |   |
| Is this a gas only submission (i.e. only significant Mcf values reported)   | No, according to supplied volumes this does not appear to be a "gas only" report. |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC  | No  |
| Reasons why this would be considered a submission for a notification of a major release   | Unavailable.  |
| With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form. |   |

**Initial Response**

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

|  |               |
|--|---------------|
| The source of the release has been stopped   | True          |
| The impacted area has been secured to protect human health and the environment                                     | True          |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True          |
| All free liquids and recoverable materials have been removed and managed appropriately                             | True          |
| If all the actions described above have not been undertaken, explain why   | Not answered. |

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

|  |   |
|--|---|
| I hereby agree and sign off to the above statement | Name: Dan Dunkelberg<br>Title: Consultant<br>Email: dan@trinityoilfieldservices.com<br>Date: 07/16/2024 |
|--|---|

**District I**

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

**District II**

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

**District III**

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

**District IV**

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

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

QUESTIONS, Page 3

Action 357854

**QUESTIONS (continued)**

|   |                |   |
|---|----------------|---|
| Operator:<br>CROSS TIMBERS ENERGY, LLC<br>400 West 7th Street<br>Fort Worth, TX 76102 | OGRID:         | 298299  |
|   | Action Number: | 357854  |
|   | Action Type:   | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
|   |                |   |

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

|  |                                      |
|--|--------------------------------------|
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Between 26 and 50 (ft.)              |
| What method was used to determine the depth to ground water  | NM OSE iWaters Database Search       |
| Did this release impact groundwater or surface water   | No                                   |
| <b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>   |                                      |
| A continuously flowing watercourse or any other significant watercourse  | Between ½ and 1 (mi.)                |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)  | Zero feet, overlying, or within area |
| An occupied permanent residence, school, hospital, institution, or church  | Greater than 5 (mi.)                 |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes  | Between ½ and 1 (mi.)                |
| Any other fresh water well or spring   | Between 1000 (ft.) and ½ (mi.)       |
| Incorporated municipal boundaries or a defined municipal fresh water well field  | Between 1 and 5 (mi.)                |
| A wetland  | Zero feet, overlying, or within area |
| A subsurface mine  | Greater than 5 (mi.)                 |
| An (non-karst) unstable area   | Greater than 5 (mi.)                 |
| Categorize the risk of this well / site being in a karst geology   | Low                                  |
| A 100-year floodplain  | Greater than 5 (mi.)                 |
| Did the release impact areas not on an exploration, development, production, or storage site                               | No                                   |

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

|   |     |
|---|-----|
| Requesting a remediation plan approval with this submission   | Yes |
| Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC. |     |
| Have the lateral and vertical extents of contamination been fully delineated  | Yes |
| Was this release entirely contained within a lined containment area   | No  |

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

|   |       |
|---|-------|
| Chloride (EPA 300.0 or SM4500 Cl B)         | 1720  |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 45680 |
| GRO+DRO (EPA SW-846 Method 8015M)           | 36160 |
| BTEX (EPA SW-846 Method 8021B or 8260B)     | 56.7  |
| Benzene (EPA SW-846 Method 8021B or 8260B)  | 0.8   |

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

|   |            |
|---|------------|
| On what estimated date will the remediation commence                        | 05/07/2024 |
| On what date will (or did) the final sampling or liner inspection occur     | 05/07/2024 |
| On what date will (or was) the remediation complete(d)                      | 05/31/2024 |
| What is the estimated surface area (in square feet) that will be reclaimed  | 861        |
| What is the estimated volume (in cubic yards) that will be reclaimed        | 312        |
| What is the estimated surface area (in square feet) that will be remediated | 861        |
| What is the estimated volume (in cubic yards) that will be remediated       | 312        |

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.



**District I**

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

**District II**

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

**District III**

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

**District IV**

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

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

QUESTIONS, Page 4

Action 357854

**QUESTIONS (continued)**

|   |   |
|---|---|
| Operator:<br>CROSS TIMBERS ENERGY, LLC<br>400 West 7th Street<br>Fort Worth, TX 76102 | OGRID:<br>298299  |
|   | Action Number:<br>357854  |
|   | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
|   |   |

**QUESTIONS**

|  |   |
|--|---|
| <b>Remediation Plan (continued)</b>  |   |
| <i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>   |   |
| <b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>   |   |
| <i>(Select all answers below that apply.)</i>  |   |
| (Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)  | Yes   |
| Which OCD approved facility will be used for <b>off-site</b> disposal  | Sundance Services, Inc [fKJ1600527371]  |
| <b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal  | Not answered.   |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state   | Not answered.   |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility   | Not answered.   |
| (Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)  | Not answered.   |
| (In Situ) Soil Vapor Extraction  | Not answered.   |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)  | Not answered.   |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)   | Not answered.   |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)   | Not answered.   |
| Ground Water Abatement pursuant to 19.15.30 NMAC   | Not answered.   |
| OTHER (Non-listed remedial process)  | Not answered.   |
| <i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>   |   |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |   |
| I hereby agree and sign off to the above statement   | Name: Dan Dunkelberg<br>Title: Consultant<br>Email: dan@trinityoilfieldservices.com<br>Date: 07/16/2024 |
| <i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>  |   |

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

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

QUESTIONS, Page 5  
  
Action 357854

QUESTIONS (continued)

|   |   |
|---|---|
| Operator:<br><br>CROSS TIMBERS ENERGY, LLC<br>400 West 7th Street<br>Fort Worth, TX 76102 | OGRID:<br><br>298299  |
|   | Action Number:<br><br>357854  |
|   | Action Type:<br><br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

|   |    |
|---|----|
| <b>Deferral Requests Only</b>   |    |
| <i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i> |    |
| Requesting a deferral of the remediation closure due date with the approval of this submission  | No |

**District I**

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

**District II**

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

**District III**

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

**District IV**

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

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

QUESTIONS, Page 6

Action 357854

**QUESTIONS (continued)**

|   |                |   |
|---|----------------|---|
| Operator:<br>CROSS TIMBERS ENERGY, LLC<br>400 West 7th Street<br>Fort Worth, TX 76102 | OGRID:         | 298299  |
|   | Action Number: | 357854  |
|   | Action Type:   | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
|   |                |   |

**QUESTIONS**

|   |            |
|---|------------|
| <b>Sampling Event Information</b>   |            |
| Last sampling notification (C-141N) recorded  | 348455     |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 05/31/2024 |
| What was the (estimated) number of samples that were to be gathered                             | 1          |
| What was the sampling surface area in square feet   | 200        |

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

|  |  |
|--|--|
| Requesting a remediation closure approval with this submission   | Yes  |
| Have the lateral and vertical extents of contamination been fully delineated   | Yes  |
| Was this release entirely contained within a lined containment area  | No   |
| All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion   | Yes  |
| What was the total surface area (in square feet) remediated  | 861  |
| What was the total volume (cubic yards) remediated   | 312  |
| All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene | Yes  |
| What was the total surface area (in square feet) reclaimed   | 0  |
| What was the total volume (in cubic yards) reclaimed   | 0  |
| Summarize any additional remediation activities not included by answers (above)  | Upon closure request approval, the excavation will be backfilled and reclaimed in accordance with 19.15.29.13 NMAC |

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

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

|  |   |
|--|---|
| I hereby agree and sign off to the above statement | Name: Dan Dunkelberg<br>Title: Consultant<br>Email: dan@trinityoilfieldservices.com<br>Date: 07/16/2024 |
|--|---|

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

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

QUESTIONS, Page 7  
  
Action 357854

**QUESTIONS (continued)**

|   |   |
|---|---|
| Operator:<br><br>CROSS TIMBERS ENERGY, LLC<br>400 West 7th Street<br>Fort Worth, TX 76102 | OGRID:<br><br>298299  |
|   | Action Number:<br><br>357854  |
|   | Action Type:<br><br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

|   |    |
|---|----|
| <b>Reclamation Report</b>   |    |
| Only answer the questions in this group if all reclamation steps have been completed. |    |
| Requesting a reclamation approval with this submission                                | No |



**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 357854

CONDITIONS

|   |   |
|---|---|
| Operator:<br>CROSS TIMBERS ENERGY, LLC<br>400 West 7th Street<br>Fort Worth, TX 76102 | OGRID:<br>298299  |
|   | Action Number:<br>357854  |
|   | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

CONDITIONS

|            |           |                |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| nvelez     | None      | 8/23/2024      |