



SANTA FE #133  
nTO1425857071

PREPARED BY SAPEC-ECO, LLC.  
PREPARED FOR MAVERICK PERMIAN, LLC.

## **Proposed Sampling and Remediation Work Plan**

April 25, 2025



Attn: NMOCD District 1  
1625 N French Dr.  
Hobbs, NM 88240

Re: Proposed Sampling and Remediation Work Plan  
NMOCD Incident Number: **nT01425857071**  
Santa Fe #133 API No. 30-025-32333  
Unit O, Section 31, Township 17S, Range 35E 435 FSL 1930 FEL Lea County, NM  
GPS Coordinates: Latitude 32.7854347 Longitude -103.4947052 NAD83

Sapec-Eco (Sapec) has been contracted by Maverick Permian, LLC. (Maverick) to review and research this historic incident then prepare this proposed sampling and remediation work plan for a produced water release that occurred at the Santa Fe #133 (Site). This incident was assigned Incident ID nT01425857071 by the New Mexico Oil Conservation Division (NMOCD).

### ***Release Information - nT01425857071***

The initial Form C-141 was submitted for this incident on September 15, 2014, stating "On September 12th, 2014, in the early morning hours, at the Santa Fe 133 Battery, a release of oil and produced water occurred. The release originated from the test heater that fell over and was damaged during heavy thunderstorms. Operations was contacted by an offset operator and informed that the heater had fallen. The lease was shut in at the time of the incident. The affected area was 200 ft. X 200 ft. X 0.25 inches deep and resulted in 10 bbls oil and 10 bbls produced water, with 10 bbls recovered. The affected area will be remediated according to NMOCD guidelines. The lease was shut in at the time of the incident." The initial C-141 was approved by the NMOCD the same day.

### ***Site Characterization***

This Site is in Lea County, NM, approximately thirteen (13) miles southwest of Lovington, NM. The release area is in Unit O, Section 31, Township 17S, Range 35E, at 32.7854347 degrees latitude and -103.4947052 degrees longitude. A Location Map is included for reference in Figure 5.

The New Mexico Bureau of Geology and Mineral Resources shows the geology at this Site includes Ogallala Formation. Alluvial and eolian deposits, and petrocalcic soils of the southern High Plains. Locally includes Qoa. A Geologic Unit Map can be found in Appendix C.

The soil types present at the Site are 73% Kimbrough gravelly loam, dry, 0 to 3 percent slopes and 27% Kimbrough-Lea complex, dry, 0 to 3 percent slopes. The drainage class for both types is well drained. Soil type information is according to the United States Department of Agriculture Natural Resources Conservation Service soil survey. The Soil Surveys and a Soil Map can be referenced in Appendix C. Reference Figure 4 for a Topographic Map.

The Site resides in a low karst zone and is approximately 24.46 miles away from the nearest medium karst zone. Figure 3 refers to the Karst Map.

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 38 feet below grade surface (bgs). This information is recorded by L-13392-POD19 which is situated approximately 0.29 miles away from the Site. This information is from 2017. The United States Geological Survey (USGS) offers the site USGS 324657103292801 17S.35E.31.43411 which shows depth to the nearest groundwater is 95 feet bgs. The latest gauge of this site was conducted in 1991, and it is located approximately 255 feet from the Site.

The nearest surface water feature is an Unnamed Pond, and it is located approximately 1.42 miles to the north. The U.S. Fish and Wildlife Service National Wetlands Inventory shows the nearest wetland to be a Freshwater Pond approximately 280 feet southeast. According to Fema's National Flood Hazard Layer search, the Site is situated in Zone D - Area of Undetermined Flood Hazard and is greater than 5 miles away from the nearest flood hazard zone. See Appendix B for referenced Water Surveys and Water-Related Maps.

Readily available data were reviewed to determine if the Site lies within biologically sensitive areas. The U.S. Fish and Wildlife Services (USFWS) Information for Planning and Consultation (IPaC) and the New Mexico Department of Game and

Fish (NMDGF) Environmental Review Tool (ERT) were queried to determine if sensitive wildlife or plant areas are present at the Site. The Site is not identified to be within biologically sensitive areas where remediation/reclamation would impact sensitive plant or wildlife habitats. A Special Status Plant/Wildlife Map is included in Figure 2.

The remediation area at the Site is in previously disturbed areas developed for oil and gas extraction; therefore, a cultural resource survey will not be required at the Site for planned remediation activities. Should the need arise for the remediation area to extend past the previously disturbed areas, the requirements of the Cultural Properties Protection (CCP) Rule will be followed.

### ***Assessment and Delineation Activities***

"At the request of ConocoPhillips, Tetra Tech personnel conducted a records review and a visual Site inspection on June 4, 2020 at the release area evaluate to current conditions at the Site. The formerly impacted area was identified from the description in the C-141 and was corroborated by aerial imagery. Photographic documentation from the visual assessment is included as Attachment C. A list of observations made during the records review and visual Site inspection follow:

- Historical imagery from November 2017 revealed fencing on the lease pad that is a possible indication of remediation on the pad.
- The release location indicated on Figure 1 is interpolated from the description of the release location provided on the C-141.
- No surficial staining was observed in the pad areas during the June 2020 visual Site inspection.
- No staining was observed in the adjacent pasture areas near the Site."

On October 19, 2020, ConocoPhillips submitted a Closure Letter Report requesting closure approval of this incident. This report was denied by the NMOCD on April 18, 2023. This documentation is included as Appendix E.

### ***Proposed Sampling & Remediation Activities***

In response to the previously denied Closure Letter Report, Maverick would like to propose the following:

- The area of concern measures approximately 40,000 square feet and is entirely on the previous pad surface including the lease road and a portion of the neighboring pad surface.
- Collect discrete samples from within and around the edges of the release area to evaluate the presence of contaminants. Ninety-five (95) samples will be collected from 19 different sample points within the release area from depths of surface, 1', 2', 3', and 4' bgs. Forty (40) samples will be collected from 8 different sample points around the edges of the release area from depths of surface, 1', 2', 3', and 4' bgs.
- All samples will be put on ice, prepared for delivery, then delivered to Envirotech Analytical Laboratories where they will be analyzed for all the constituents listed in Table 1 19.15.29.12 NMAC.
- A 48-hour sampling notification will be issued to the NMOCD for these sampling events. A variance request is included below for permission to use the delineation samples as confirmation samples depending on the sample results of the soil. A Proposed Sample Map can be found in Figure 1.
- If any samples do not verify delineation, then the "step-out" method will be used for horizontal delineation samples until sample results can confirm delineation. Also, for vertical delineation samples, any samples not verifying delineation will be advanced deeper until sample results can confirm delineation.
- Sample results from that are over the regulatory limits of the <50-foot depth to groundwater section of Table 1 will be measured for total area and affected volume then removed via mechanical excavation means. The contaminated soil will be hauled to an NMOCD-approved disposal facility and clean, like material will be brought to the Site for backfilling the excavated area.
- Once all sample results confirm delineation is complete, and contamination isn't present or has been removed, a remediation closure report will be drafted and submitted to the NMOCD Pay Portal for review/approval.

### ***Variance Request***

Maverick would like to respectfully request to use the delineation samples as confirmation samples in the event the laboratory samples results confirm that no contamination is present at any or all of the sample points. Maverick will diligently remediate all contaminants found that have reported results being over the regulatory limits of the <50-foot depth to groundwater section of Table 1 19.15.29.12 NMAC. Chlorides should be no more than 600 mg/kg.



TPH (GRO+DRO+ORO) should be no more than 100 mg/kg. BTEX should be no more than 50 mg/kg. Benzene should be no more than 10 mg/kg.

Once official verification is received that contaminants are not present, or have been successfully removed from all areas within and around the Site, a remediation closure report will be drafted and submitted for approval.

### ***Request for Proposed Sampling & Remediation Work Plan Approval***

Maverick requests that this proposed sampling & remediation work plan for incident ID nT01425857071 be approved. All rules and regulations set forth in 19.15.29.12 NMAC have been complied with.

For questions or additional information, please reach out to:

Maverick Permian – Bryce Wagoner – [Bryce.Wagoner@mavresources.com](mailto:Bryce.Wagoner@mavresources.com) – (928) 241-1862

Sapec-Eco, LLC – Tom Bynum – [tombynum@sapec-eco.com](mailto:tombynum@sapec-eco.com) – (580) 748-1613

### ***Attachments***

#### **Figures:**

- 1- Proposed Sample Map
- 2- Special Status Plant/Wildlife Map
- 3- Karst Map
- 4- Topographic Map
- 5- Location Map

#### **Appendices:**

- Appendix A – Initial Form C-141
- Appendix B – Water Surveys & Water-Related Maps
- Appendix C – Soil Surveys, Soil Map, & Geologic Unit Map
- Appendix D – Photographic Documentation
- Appendix E – Closure Letter Report 2020





***Figures:***

**Proposed Sample Map**

**Special Status Plant/Wildlife Map**

**Karst Map**

**Topographic Map**

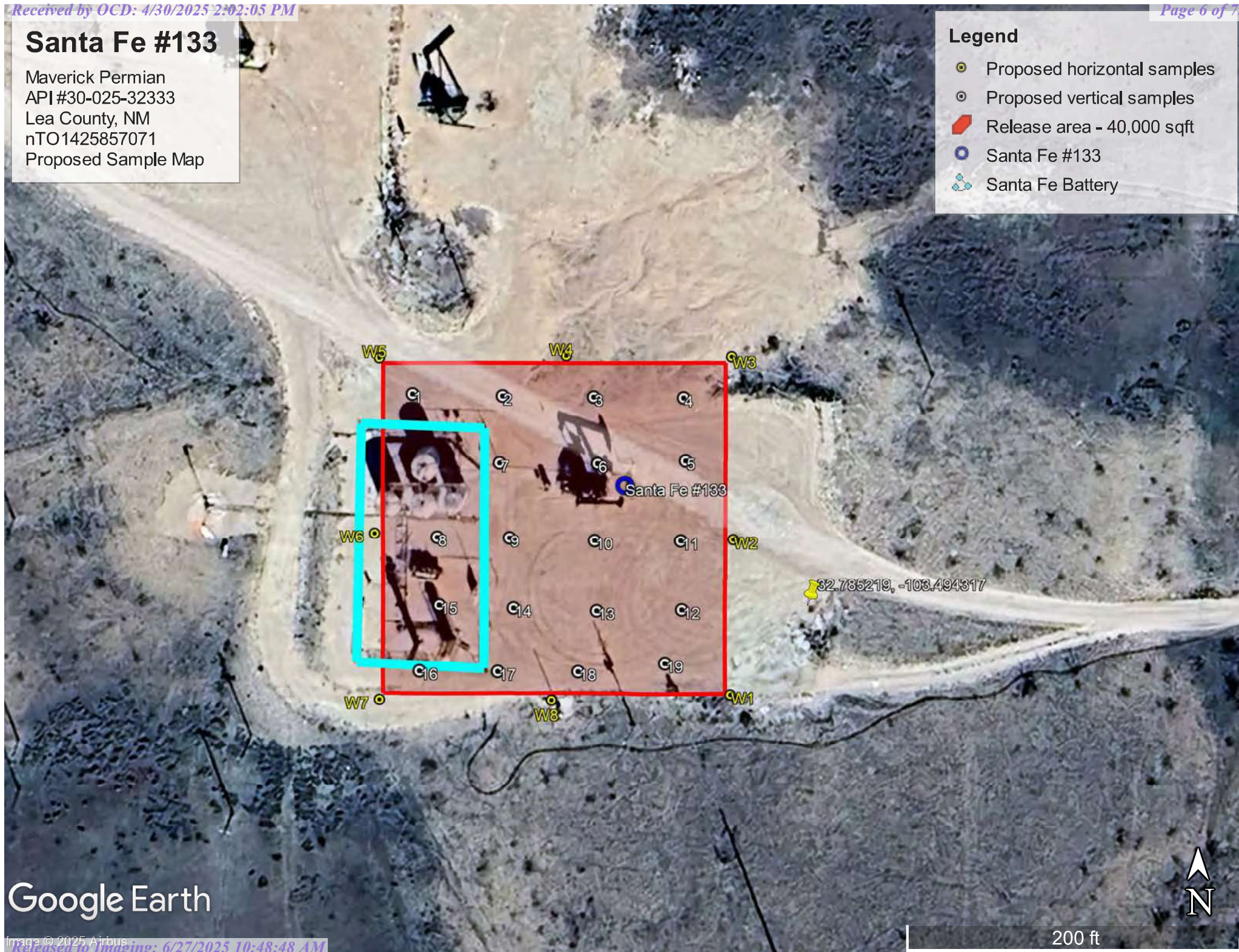
**Location Map**

# Santa Fe #133

Maverick Permian  
API #30-025-32333  
Lea County, NM  
nTO1425857071  
Proposed Sample Map

## Legend

- Proposed horizontal samples
- Proposed vertical samples
- Release area - 40,000 sqft
- Santa Fe #133
- Santa Fe Battery

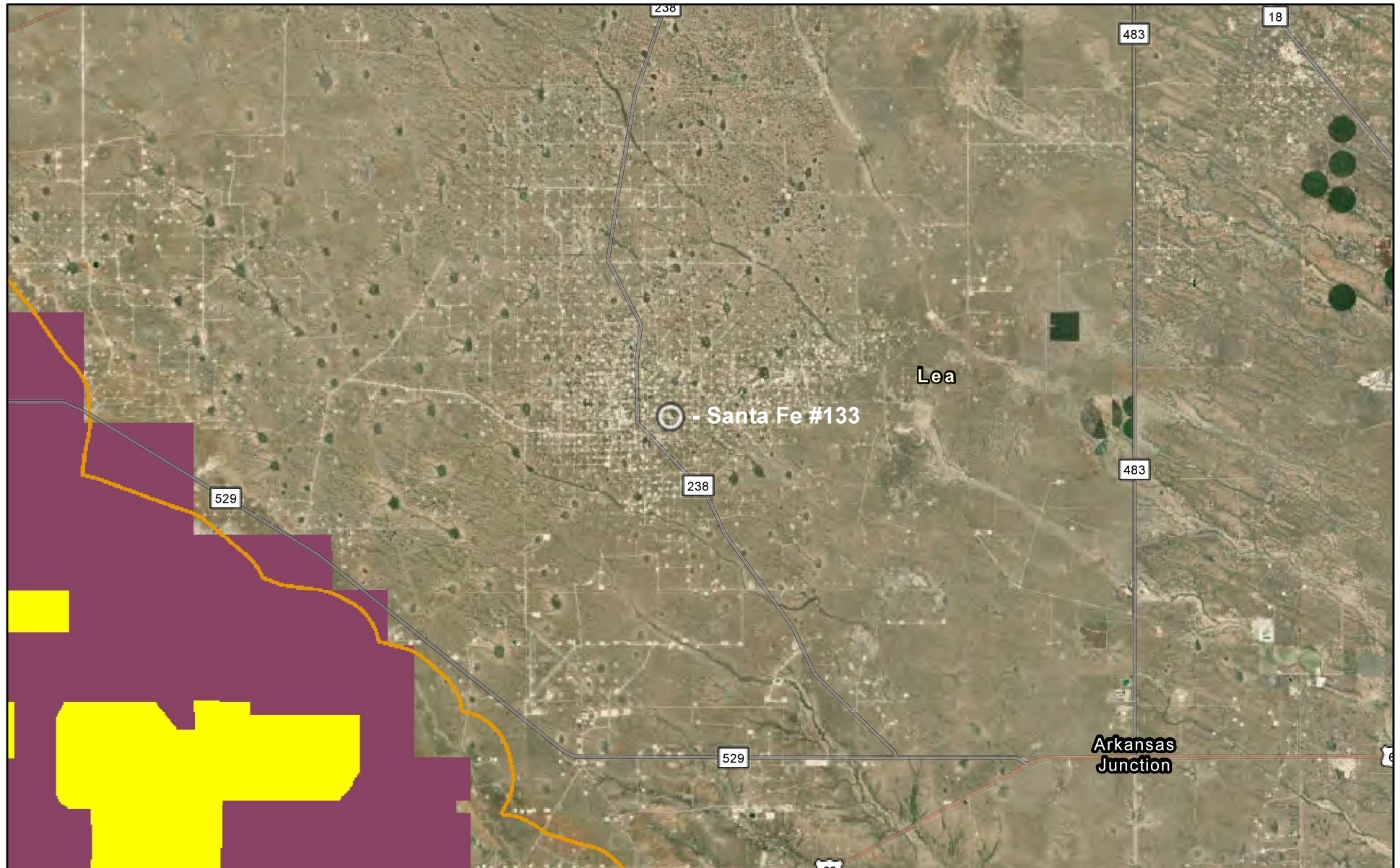


Google Earth

200 ft



# Special Status Plant/Wildlife Map

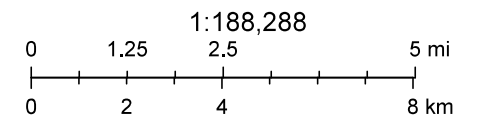


4/21/2025

- Dunes Sage Brush Lizard Habitat
- Lesser Prairie Chicken Habitat
- Habitat Evaluation Area
- Isolated Population Area

- World Imagery
- Low Resolution 15m Imagery
- High Resolution 60cm Imagery
- High Resolution 30cm Imagery

Citations  
38m Resolution Metadata






Earthstar Geographics, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community,

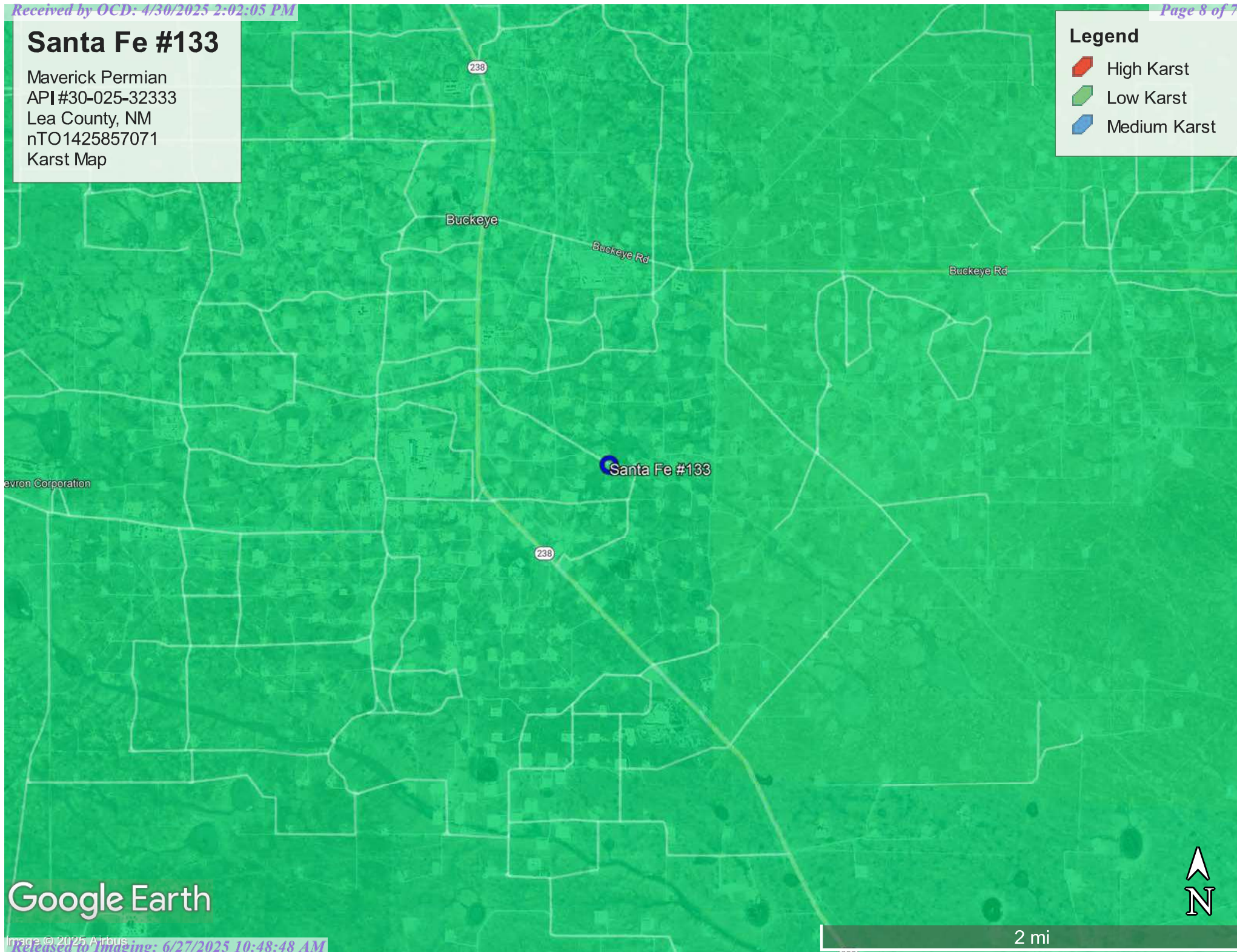


## Santa Fe #133

Maverick Permian  
API #30-025-32333  
Lea County, NM  
nTO1425857071  
Karst Map

### Legend

-  High Karst
-  Low Karst
-  Medium Karst

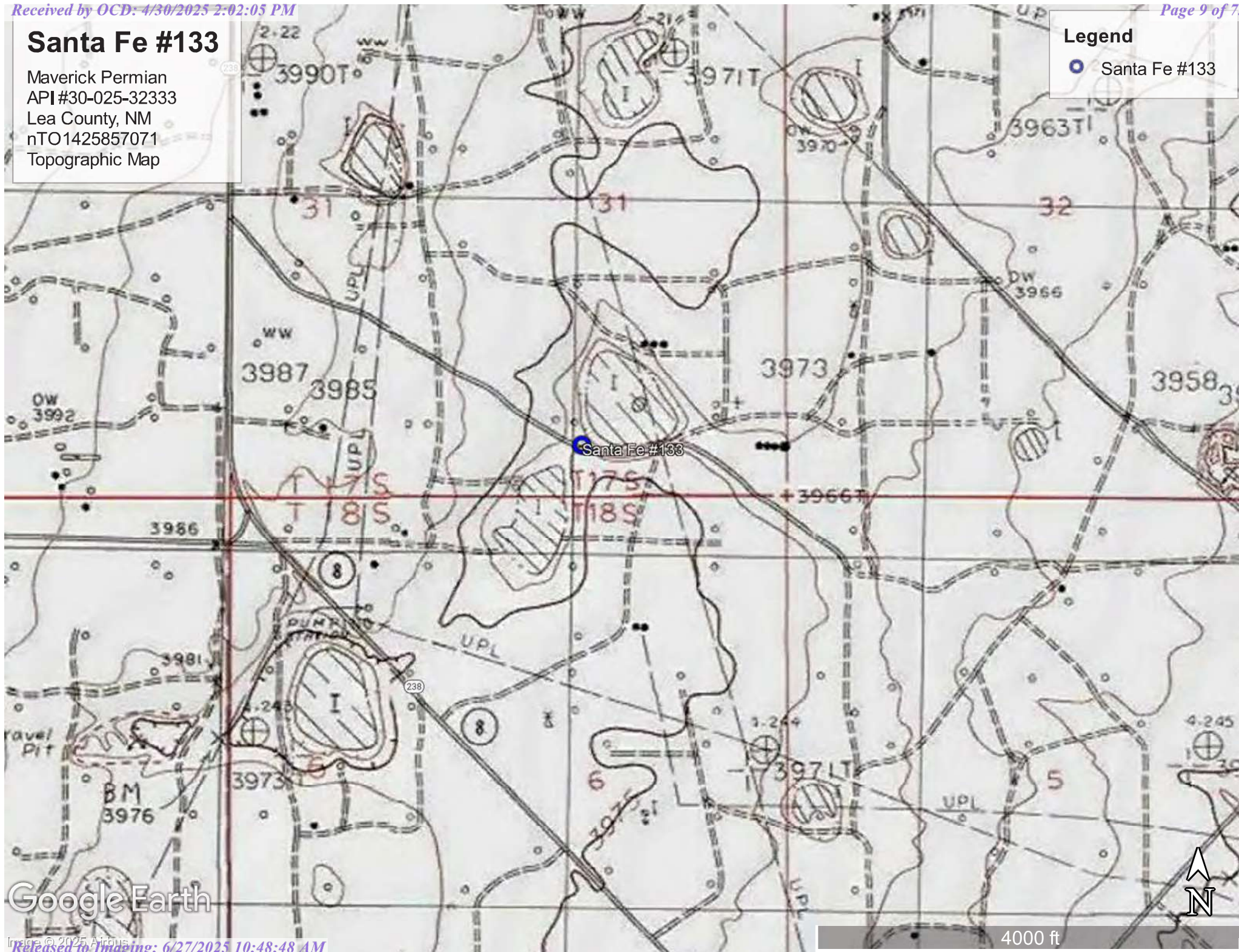




## Santa Fe #133

Maverick Permian  
API #30-025-32333  
Lea County, NM  
nTO1425857071  
Topographic Map

**Legend**  
● Santa Fe #133



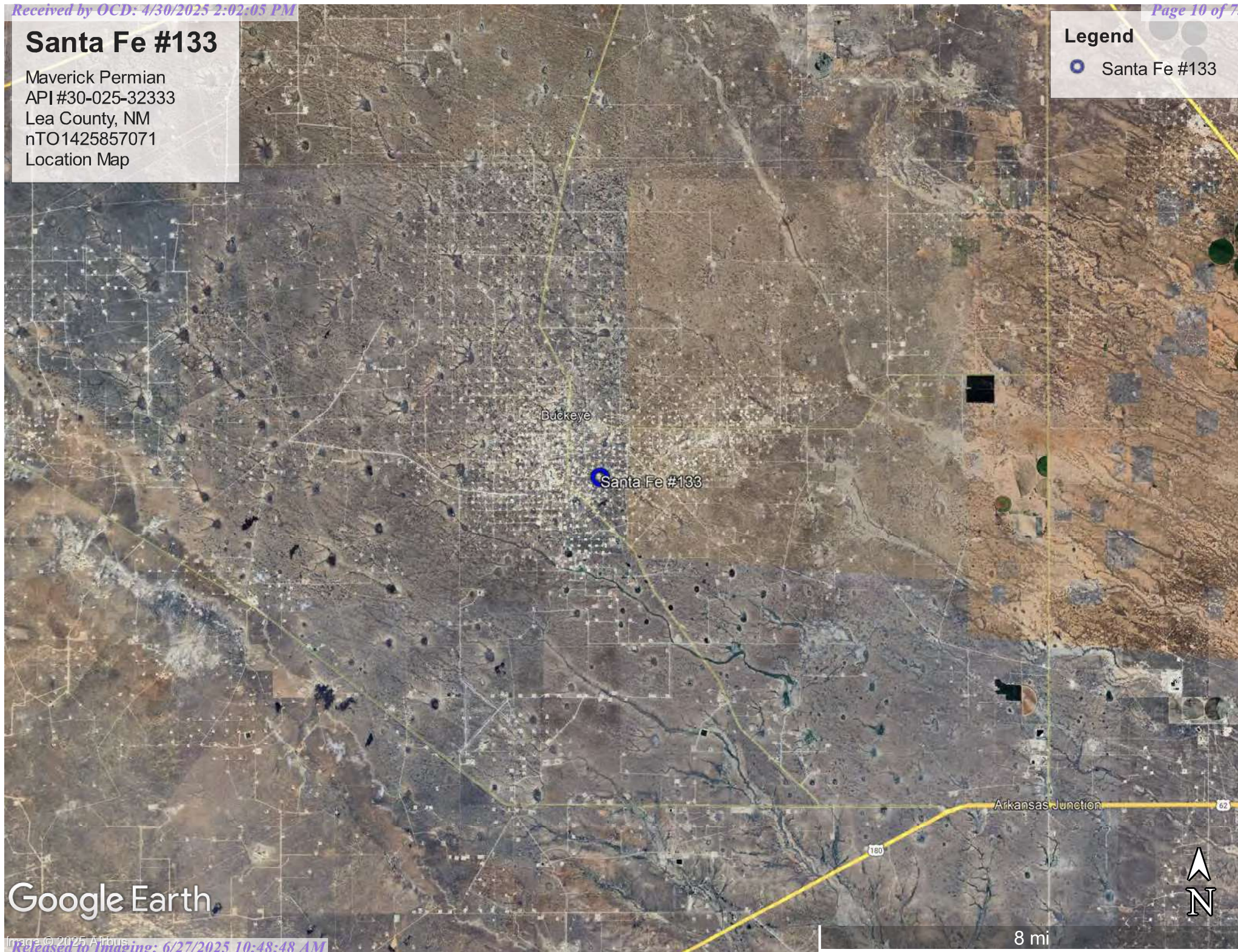


## Santa Fe #133

Maverick Permian  
API #30-025-32333  
Lea County, NM  
nTO1425857071  
Location Map

### Legend

● Santa Fe #133



Google Earth





## ***Appendix A***

### **Initial Form C-141**



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

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

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

## Release Notification and Corrective Action

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: <b>ConocoPhillips</b>	Contact: <b>Spencer Cluff</b>
Address: <b>29 Vacuum Complex Lane</b>	Telephone No. <b>575-391-3143</b>
Facility Name: <b>Santa Fe Battery</b>	Facility Type: <b>Heater Treater</b>

Surface Owner: <b>NMOCD</b>	Mineral Owner <b>NMOCD</b>	API No. <b>30-025-32333</b>
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### LOCATION OF RELEASE

Unit Letter <b>O</b>	Section <b>31</b>	Township <b>17S</b>	Range <b>35E</b>	Feet from the <b>435</b>	North/South Line <b>South</b>	Feet from the <b>1930</b>	East/West Line <b>East</b>	County <b>LEA</b>
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Latitude 32.7854367361682 Longitude - 103.494735819723

### NATURE OF RELEASE

Type of Release: <b>Spill</b>	Volume of Release: <b>20 BBLS</b>	Volume Recovered: <b>10 BBLS</b>
Source of Release: <b>Heater Treater</b>	Date and Hour of Occurrence <b>09/11/14 4:00 am</b>	Date and Hour of Discovery <b>09/12/2014 7:3- am</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Tomáš Oberding</b>	
By Whom? <b>Spencer Cluff</b>	Date and Hour: <b>09/12/2014 7:10 am</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

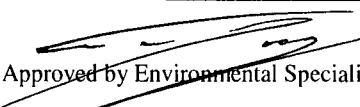
Describe Cause of Problem and Remedial Action Taken.\*

On September 12th, 2014, in the early morning hours, at the Santa Fe 133 Battery, a release of oil and produced water occurred. The release originated from the test heater that fell over and was damaged during heavy thunderstorms. Operations was contacted by an offset operator and informed that the heater had fallen. The lease was shut in at the time of the incident. The affected area was 200 ft. X 200 ft. X 0.25 inches deep and resulted in 10 bbls oil and 10 bbls produced water, with 10 bbls recovered. The affected area will be remediated according to NMOCD guidelines.

Describe Area Affected and Cleanup Action Taken.\*

The lease was shut in at the time of the incident.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Spencer A. Cluff</i>		<h3>OIL CONSERVATION DIVISION</h3>  <p>Approved by Environmental Specialist:</p>	
Printed Name: Spencer Cluff			
Title: <b>HSE Lead</b>	Approval Date: <b>9-15-14</b>	Expiration Date: <b>11-15-14</b>	
E-mail Address: <b>spencer.a.cluff@conocophillips.com</b>	Conditions of Approval: <i>Site Supply agreed Delineate &amp; remediate man as per NMOCD guide. Submit find</i>		Attached <input type="checkbox"/>  <b>IRP-3321</b>
Date: 09/15/2014	Phone: 575-391-3143	<i>C-141 by 11-15-14</i>	

\* Attach Additional Sheets If Necessary



## ***Appendix B***

### **Water Surveys**

### **Water-Related Maps**



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
<a href="#">L 13392 POD13</a>		L	LE	SE	NW	NE	06	18S	35E	641127.5	3628091.0		442			
<a href="#">L 13392 POD12</a>		L	LE	SE	NW	NE	06	18S	35E	641148.4	3628085.2		456			
<a href="#">L 13392 POD1</a>		L	LE	SE	NW	NE	06	18S	35E	641125.2	3628069.4		461			
<a href="#">L 13392 POD19</a>		L	LE	SW	NE	NE	06	18S	35E	641154.7	3628080.9		462	138		
<a href="#">L 13392 POD2</a>		L	LE	SE	NW	NE	06	18S	35E	641151.2	3628069.8		471			
<a href="#">L 13392 POD3</a>		L	LE	SE	NW	NE	06	18S	35E	641125.5	3628050.9		479			
<a href="#">L 13392 POD4</a>		L	LE	SE	NW	NE	06	18S	35E	641151.5	3628054.4		485			
<a href="#">L 13392 POD15</a>		L	LE	SE	NW	NE	06	18S	35E	641118.6	3628041.6		486	137		
<a href="#">L 13392 POD5</a>		L	LE	SE	NW	NE	06	18S	35E	641123.2	3628029.3		499			
<a href="#">L 13392 POD6</a>		L	LE	SE	NW	NE	06	18S	35E	641144.0	3628032.7		502			
<a href="#">L 13041 POD1</a>		L	LE		NE	NE	06	18S	35E	641151.9	3628026.7		511	130		
<a href="#">L 13041 POD2</a>		L	LE		NE	NE	06	18S	35E	641151.9	3628026.7		511	140		
<a href="#">L 13041 POD3</a>		L	LE		NE	NE	06	18S	35E	641151.9	3628026.7		511	140		
<a href="#">L 13041 POD4</a>		L	LE		NE	NE	06	18S	35E	641151.9	3628026.7		511	140		
<a href="#">L 13392 POD20</a>		L	LE	SE	NW	NE	06	18S	35E	641080.9	3628000.1		515	138		
<a href="#">L 13392 POD14</a>		L	LE	SE	NW	NE	06	18S	35E	641118.3	3628007.1		518	133		
<a href="#">L 13392 POD7</a>		L	LE	SE	NW	NE	06	18S	35E	641149.4	3628017.4		519			

Average Depth to Water: 0 feet

Minimum Depth: 0 feet

Maximum Depth: 0 feet

Record Count: 17

Basin/County Search:

County: LE

UTM Filters (in meters):

Easting: 640965.37

Northing: 3628502.87

Radius: 00520

\* UTM location was derived from PLSS - see Help

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



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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

2007 DEC 18 AM 10:44

<b>1. GENERAL AND WELL LOCATION</b>	OSE POD NUMBER (WELL NUMBER) (POD -19) LP-CHEVRON GRAYBURG 6-INCH MW13				OSE FILE NUMBER(S) L-13392			
	WELL OWNER NAME(S) PLAINS ALL AMERICAN PIPELINE				PHONE (OPTIONAL) 806-592-2555			
	WELL OWNER MAILING ADDRESS 505 N BIG SPRING, SUITE 600				CITY MIDLAND		STATE TX	ZIP 79701
	WELL LOCATION (FROM GPS)	DEGREES		MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
		LATITUDE		32	46			
LONGITUDE		103	29	33.864 W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE LOT1-5, SE4NW4, SW4NE4, 6, 18S 35E								

<b>2. DRILLING &amp; CASING INFORMATION</b>	LICENSE NUMBER WD-1710		NAME OF LICENSED DRILLER MARTIN STRAUB		NAME OF WELL DRILLING COMPANY STRAUB CORPORATION			
	DRILLING STARTED 11-13-17	DRILLING ENDED 11-13-17	DEPTH OF COMPLETED WELL (FT) 138'	BORE HOLE DEPTH (FT) 138'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="radio"/> ARTESIAN <input type="radio"/> DRY HOLE <input checked="" type="radio"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input checked="" type="radio"/> AIR <input type="radio"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="radio"/> ROTARY <input type="radio"/> HAMMER <input type="radio"/> CABLE TOOL <input type="radio"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	118'	138'	6 1/4"	SCH 40 .010 SCREEN	FJ	2"	0.154	.010
	+3	118'	6 1/4"	SCH 40 RISER	FJ	2"	0.154	RISER

<b>3. ANNULAR MATERIAL</b>	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				
	116'	138'	6 1/4"	12 BAGS OF 20/40 SAND		TOPLOAD
	110'	116'	6 1/4"	4 BAG OF 3/8 HOLEPLUG		TOPLOAD
	0	110'	6 1/4"	14 BAGS CEMENT GROUT		TREMIE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	L-13392	POD NUMBER	19	TRN NUMBER	615428
LOCATION	18S.35E.6.2.2.3			monitor	PAGE 1 OF 2

#### 4. HYDROGEOLOGIC LOG OF WELL

WR-20 WELL RECORD & LOG (Version 06/08/2012)



# OSE POD Location Map



4/21/2025, 1:26:08 PM

GIS WATERS PODs

● Active

● Pending

● Inactive

● Plugged

●

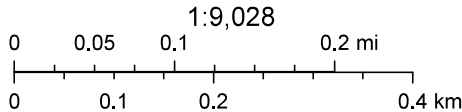
OSE District Boundary

Water Right Regulations

Closure Area

New Mexico State Trust Lands

Both Estates



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community. Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



[USGS Home](#)  
[Contact USGS](#)  
[Search USGS](#)

## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

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

Groundwater levels for the Nation



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

### Search Results -- 1 sites found

site\_no list =

- 324657103292801

Minimum number of levels = 1

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

### USGS 324657103292801 17S.35E.31.43411

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°47'08", Longitude 103°29'38" NAD27

Land-surface elevation 3,968.00 feet above NGVD29

The depth of the well is 146 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

#### Output formats

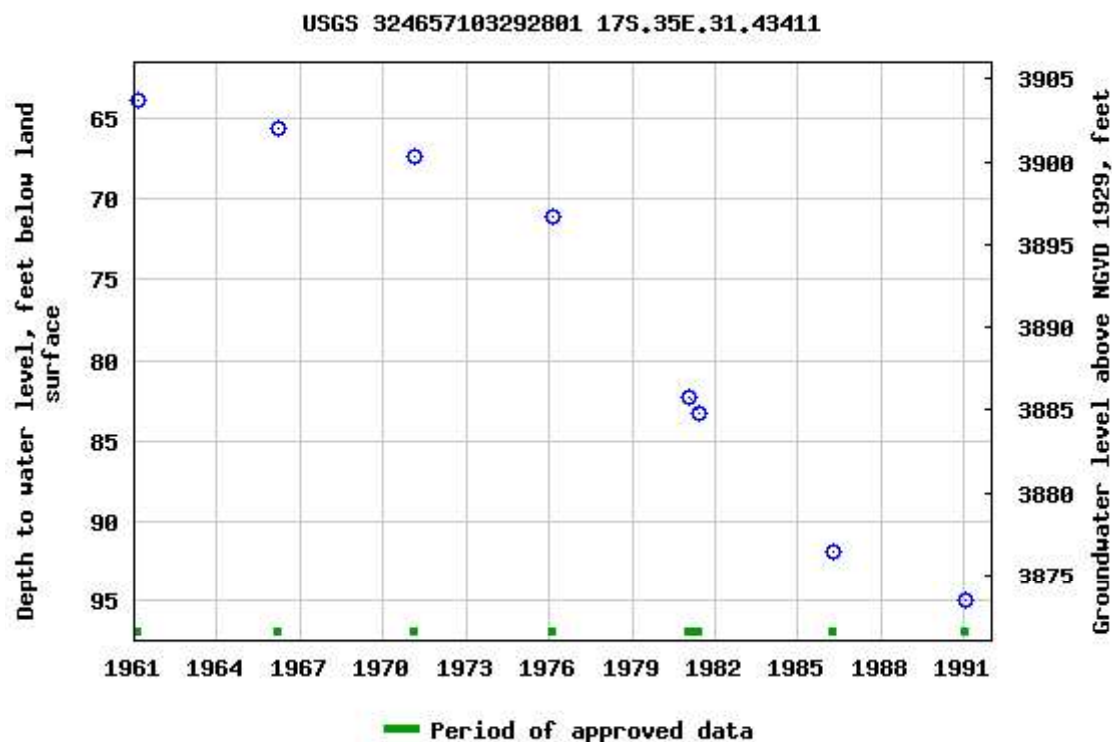
[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)





Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

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[Data Tips](#)

[Explanation of terms](#)

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[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

**Title: Groundwater for USA: Water Levels**

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

Page Contact Information: [USGS Water Data Support Team](#)

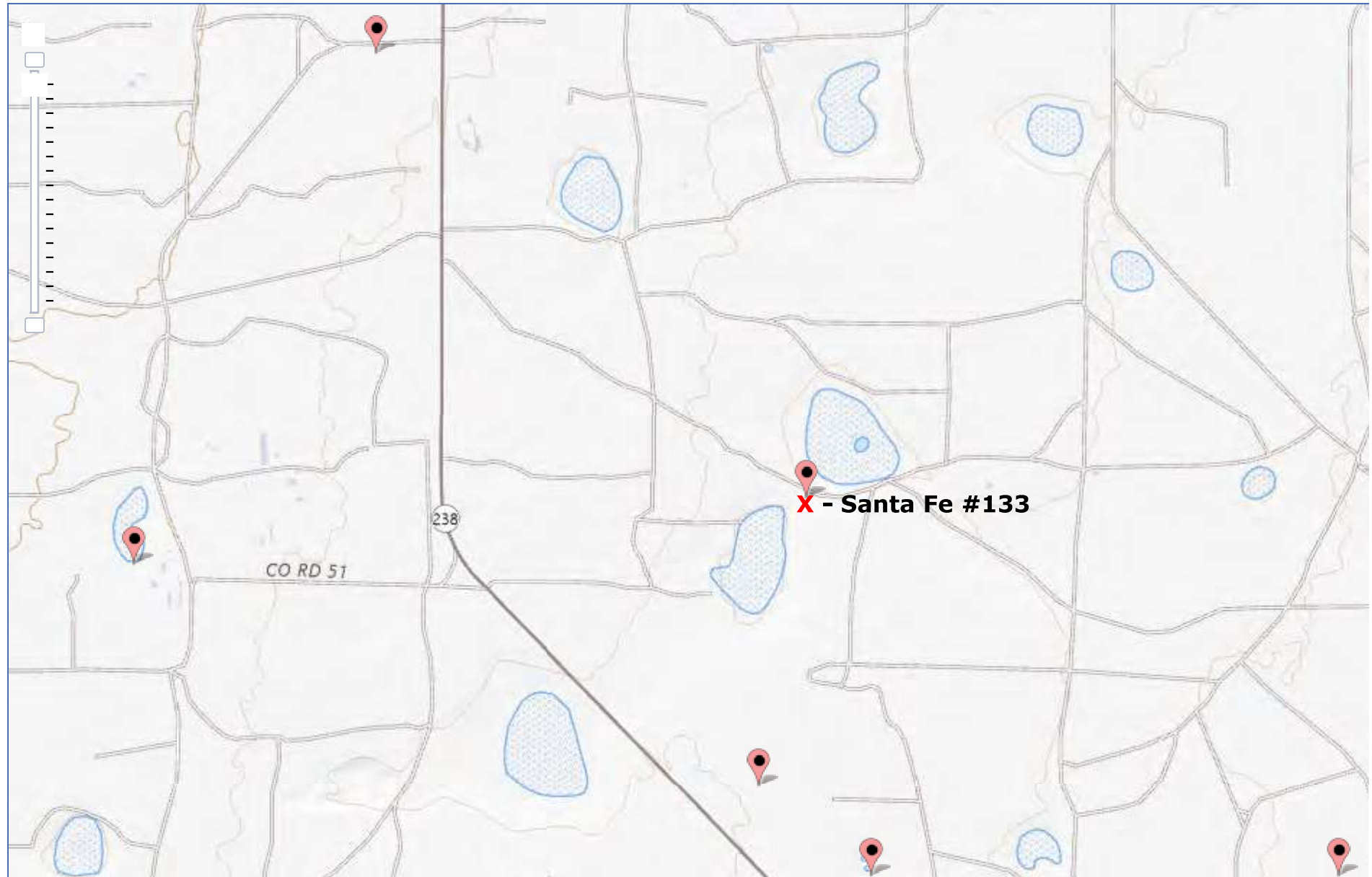
Page Last Modified: 2025-04-21 14:29:22 EDT

0.62 0.46 nadww02





## National Water Information System: Mapper



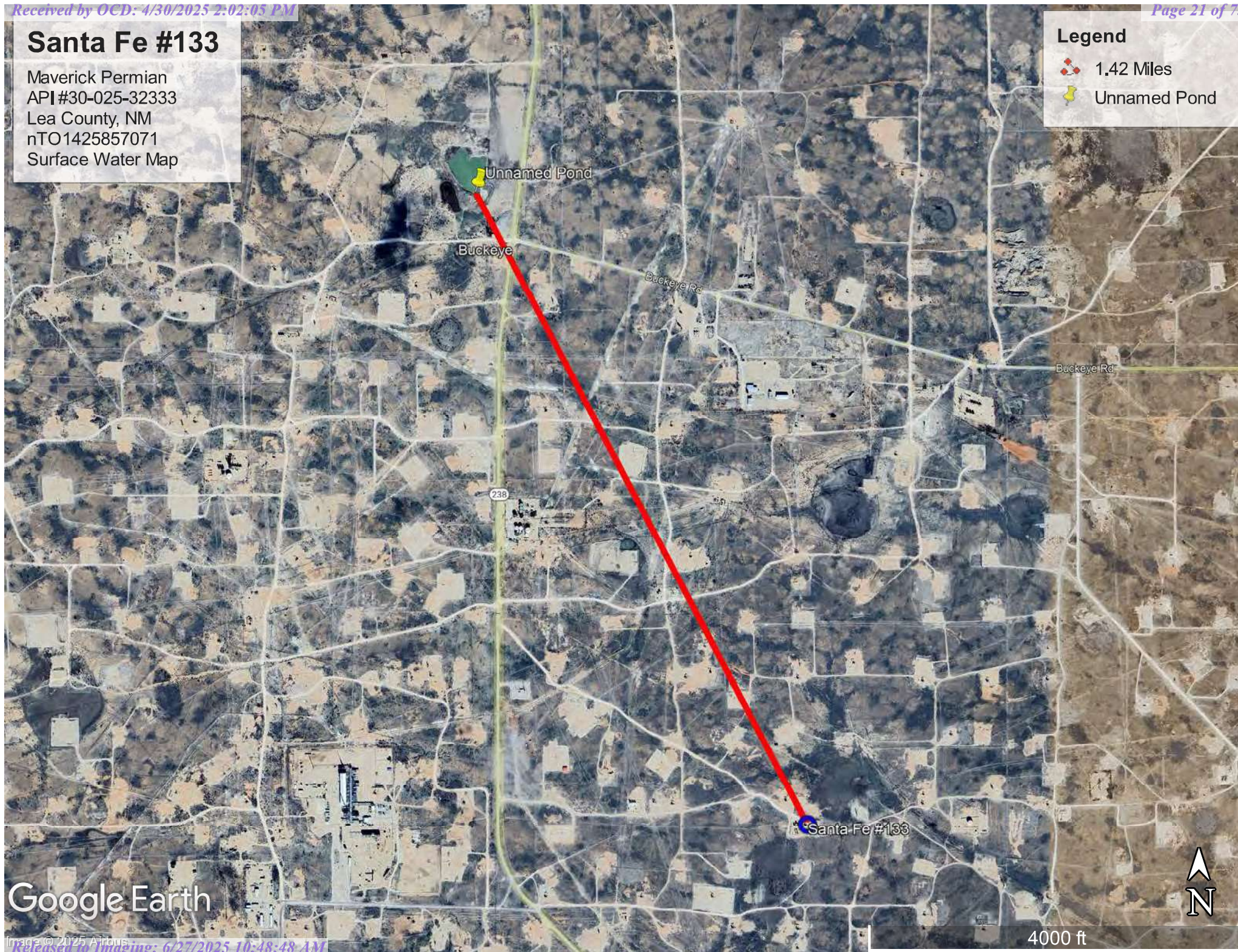


## Santa Fe #133

Maverick Permian  
API #30-025-32333  
Lea County, NM  
nTO1425857071  
Surface Water Map

### Legend

- 1.42 Miles
- Unnamed Pond



Google Earth

4000 ft





## Wetlands Map



April 21, 2025

## Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

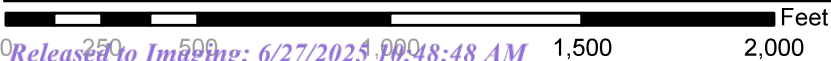
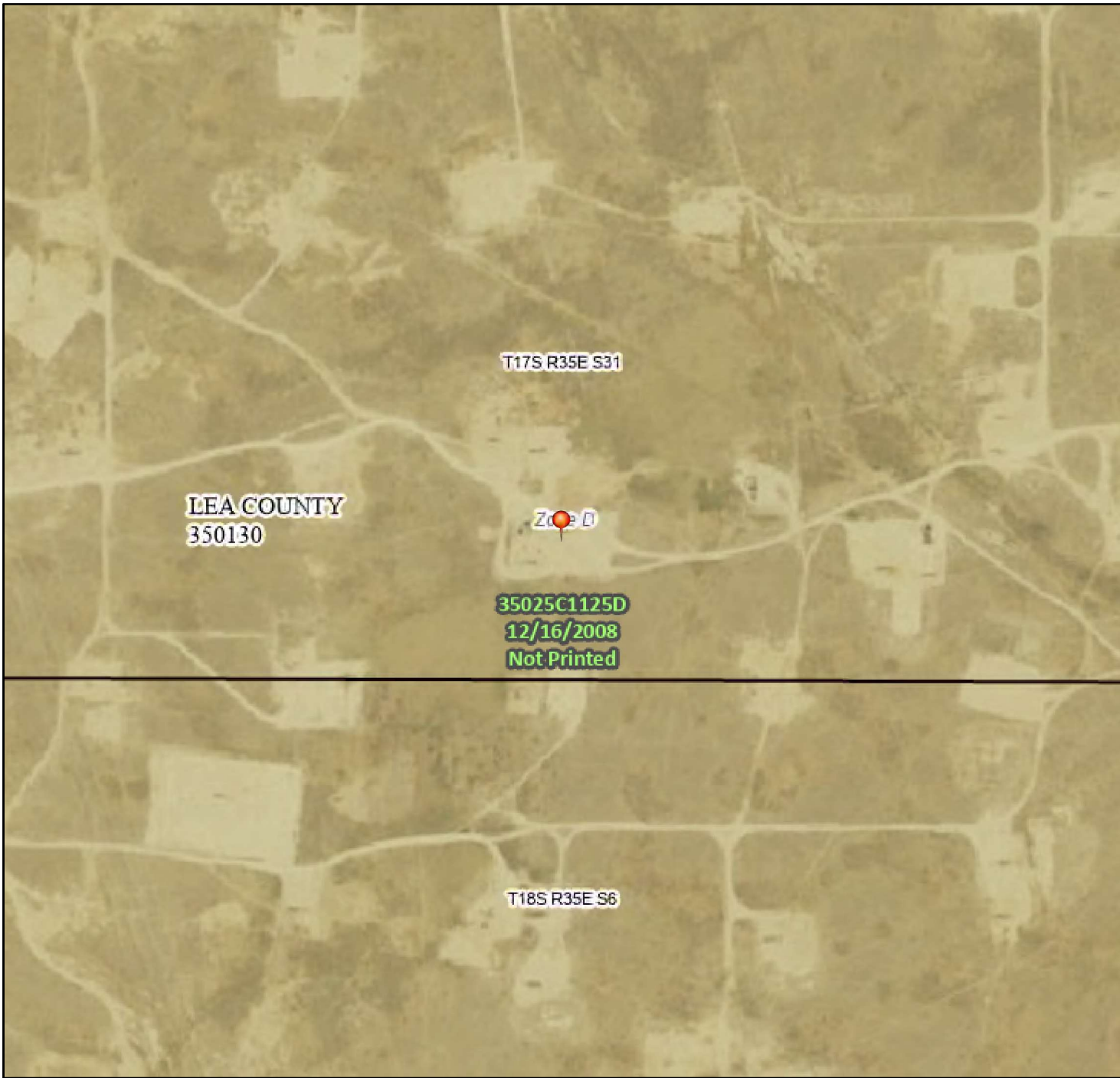
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



# National Flood Hazard Layer FIRMette



103°30'W 32°47'22"N



1:6,000

103°29'22"W 32°46'52"N

Released to Imaging: 6/27/2025 10:48:48 AM

## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		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 <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance
		Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect 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 4/21/2025 at 6:32 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.



## ***Appendix C***

### **Soil Surveys**

#### **Soil Map**

#### **Geologic Unit Map**

Map Unit Description: Kimbrough gravelly loam, dry, 0 to 3 percent slopes---Lea County, New Mexico

---

## 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



Map Unit Description: Kimbrough gravelly loam, dry, 0 to 3 percent slopes---Lea County, New Mexico

---

*Hydrologic Soil Group:* D  
*Ecological site:* R077DY049TX - Very Shallow 12-17" PZ  
*Hydric soil rating:* No

### 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

## Data Source Information

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 21, Sep 3, 2024

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

---

## Lea County, New Mexico

### 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

##### 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

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

---

*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*  
*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

### 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*

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

---

**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

**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)

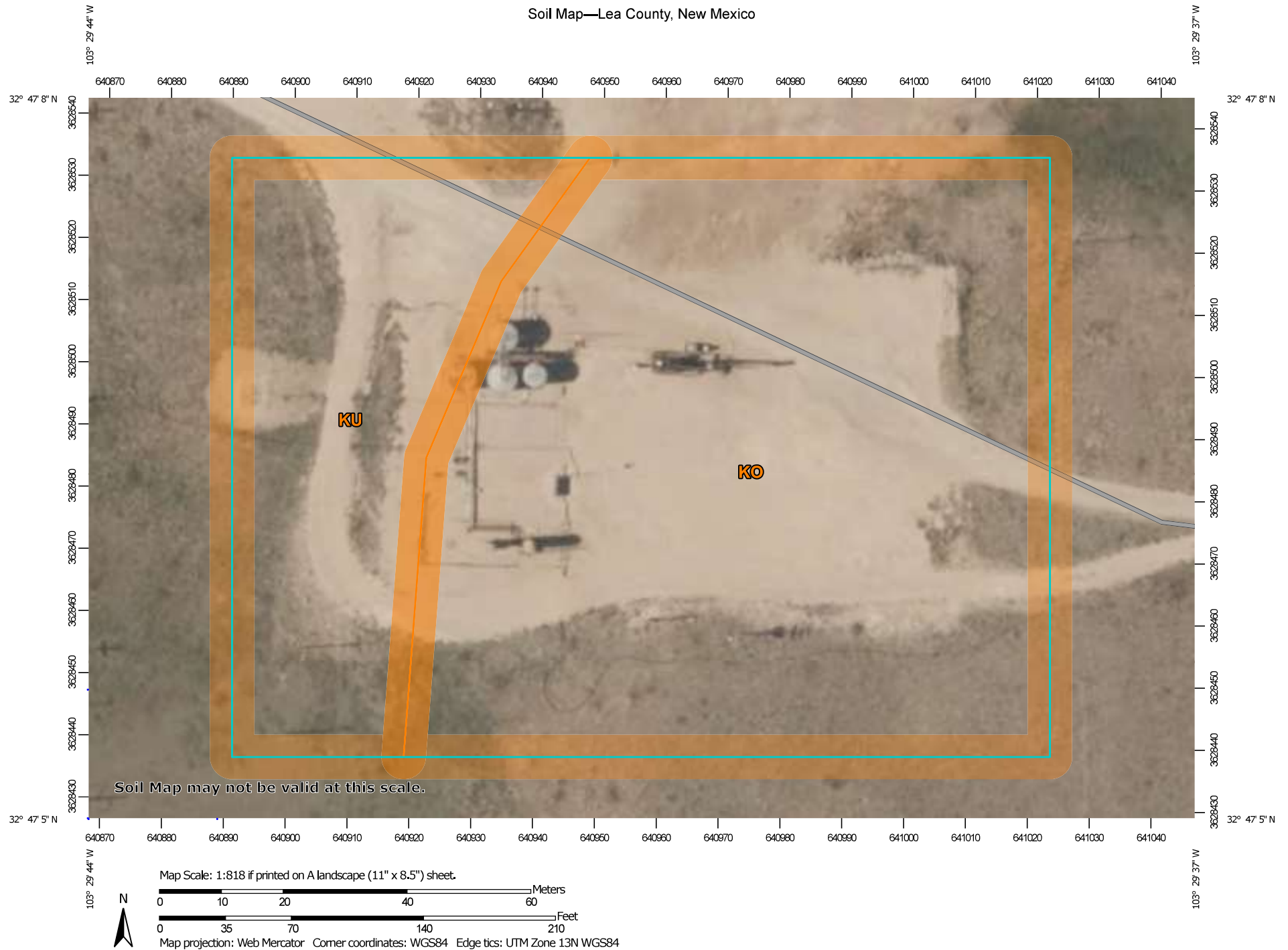
*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 21, Sep 3, 2024

Soil Map—Lea County, New Mexico



Natural Resources  
Conservation Service


Web Soil Survey  
National Cooperative Soil Survey

4/21/2025  
Page 1 of 3

## Soil Map—Lea County, New Mexico


## 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 21, Sep 3, 2024

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.

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	2.3	72.6%
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	0.9	27.4%
Totals for Area of Interest		3.2	100.0%

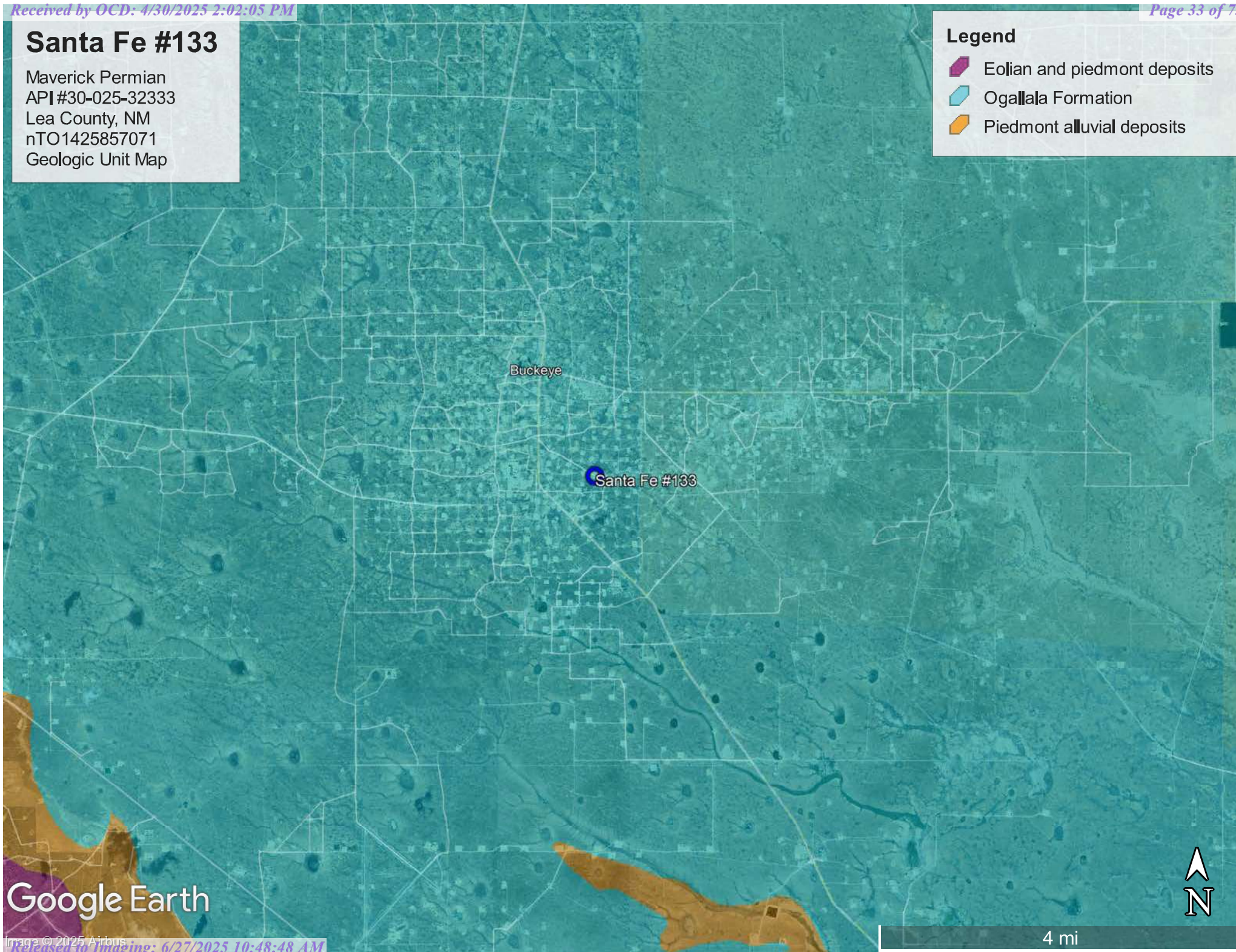


# Santa Fe #133

Maverick Permian  
API #30-025-32333  
Lea County, NM  
nTO1425857071  
Geologic Unit Map

## Legend

-  Eolian and piedmont deposits
-  Ogallala Formation
-  Piedmont alluvial deposits



Google Earth



## ***Appendix D***

### **Photographic Documentation**











## ***Appendix D***

### **Closure Letter Report 2020**



October 19, 2020

Bradford Billings  
Hydrologist  
District 2 Artesia  
Oil Conservation Division  
Santa Fe, NM 87505

**Subject: Closure Letter Report  
ConocoPhillips  
1RP-3321  
Santa Fe Battery Heater Treater Release  
PLSS Unit Letter O, Section 31, Township 17 South, and Range 35 East  
Lea County, New Mexico**

Mr. Billings:

On behalf of ConocoPhillips, Tetra Tech, Inc. (Tetra Tech) submits the following Closure Report for review. The ConocoPhillips Santa Fe Battery is located approximately 1.3 miles east-southeast of Buckeye in Lea County, New Mexico. The well listed in the C-141 is the Santa Fe #133 (API No. 30-025-32333) and is located immediately adjacent to the Santa Fe Battery. The release area (Site) is located in the Public Land Survey System (PLSS) Unit Letter O, Section 31, Township 17 South, and Range 35 East at GPS coordinates 32.78543°, -103.49473° (Figure 1).

## BACKGROUND

According to the State of New Mexico C-141 Initial Report (Attachment A), on September 11, 2014 a release occurred at the Santa Fe Battery when the test heater fell over and was damaged during heavy thunderstorms. The release consisted of 10 barrels (bbls) of oil and 10 bbls of produced water and affected a 200-foot (ft) by 200-ft by 0.25-in deep area. During initial response activities, a vacuum truck recovered 10 bbls of the released fluids. Immediate notice was given to the New Mexico Oil Conservation Division (NMOCD) on September 12, 2014. The initial C-141 was dated September 15, 2014 and submitted to NMOCD, who subsequently assigned the release the Remediation Permit (RP) number 1RP-3321.

## SITE CHARACTERIZATION

A site characterization was performed and no watercourses, lakebeds, sinkholes, residences, schools, hospitals, institutions, churches, springs, public or private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The Site is located in a low karst potential area. Two playa lakes are located adjacent to the lease pad, one northeast and the other southwest, each approximately 200 ft from the release area.

Based on data from the New Mexico Office of the State Engineer (NMOSE), there are twenty-five (25) water wells located within 800 meters (approximately ½-mile) of the release location. The average depth to groundwater is 95 feet. The site characterization data is shown in Attachment B.

## REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total

**TETRA TECH**

8911 N. Capital of Texas Hwy, Building 2, Suite 2310, Austin, TX, 78759

Tel 512-338-1667 Fax 512-338-1331 [www.tetrattech.com](http://www.tetrattech.com)

Bradford Billings  
NMOCD  
October 19, 2020

petroleum hydrocarbons (TPH), and chlorides in soil. Based on the proximity of the playa lakes to the Site, the RRALs for the Site are as follows:

- Benzene: 10 milligrams per kilogram (mg/kg);
- Total BTEX (sum of benzene, toluene, ethylbenzene, and xylene): 50 mg/kg;
- TPH (GRO + DRO + ORO): 100 mg/kg;
- Chloride: 600 mg/kg.

#### VISUAL SITE INSPECTION SUMMARY

At the request of ConocoPhillips, Tetra Tech personnel conducted a records review and a visual Site inspection on June 4, 2020 at the release area evaluate to current conditions at the Site. The formerly impacted area was identified from the description in the C-141 and was corroborated by aerial imagery. Photographic documentation from the visual assessment is included as Attachment C. A list of observations made during the records review and visual Site inspection follow:

- Historical imagery from November 2017 revealed fencing on the lease pad that is a possible indication of remediation on the pad.
- The release location indicated on Figure 1 is interpolated from the description of the release location provided on the C-141.
- No surficial staining was observed in the pad areas during the June 2020 visual Site inspection.
- No staining was observed in the adjacent pasture areas near the Site.

#### CONCLUSION

Based on the apparent remediation conducted in the vicinity of the release area and lack of staining observed during the recent visual inspection, ConocoPhillips request closure for this release. The final C-141 form is enclosed in Attachment A.

Should you have any questions or comments regarding this report, please do not hesitate to contact me by telephone at 512-338-2861 or by email at [christian.llull@tetrattech.com](mailto:christian.llull@tetrattech.com).

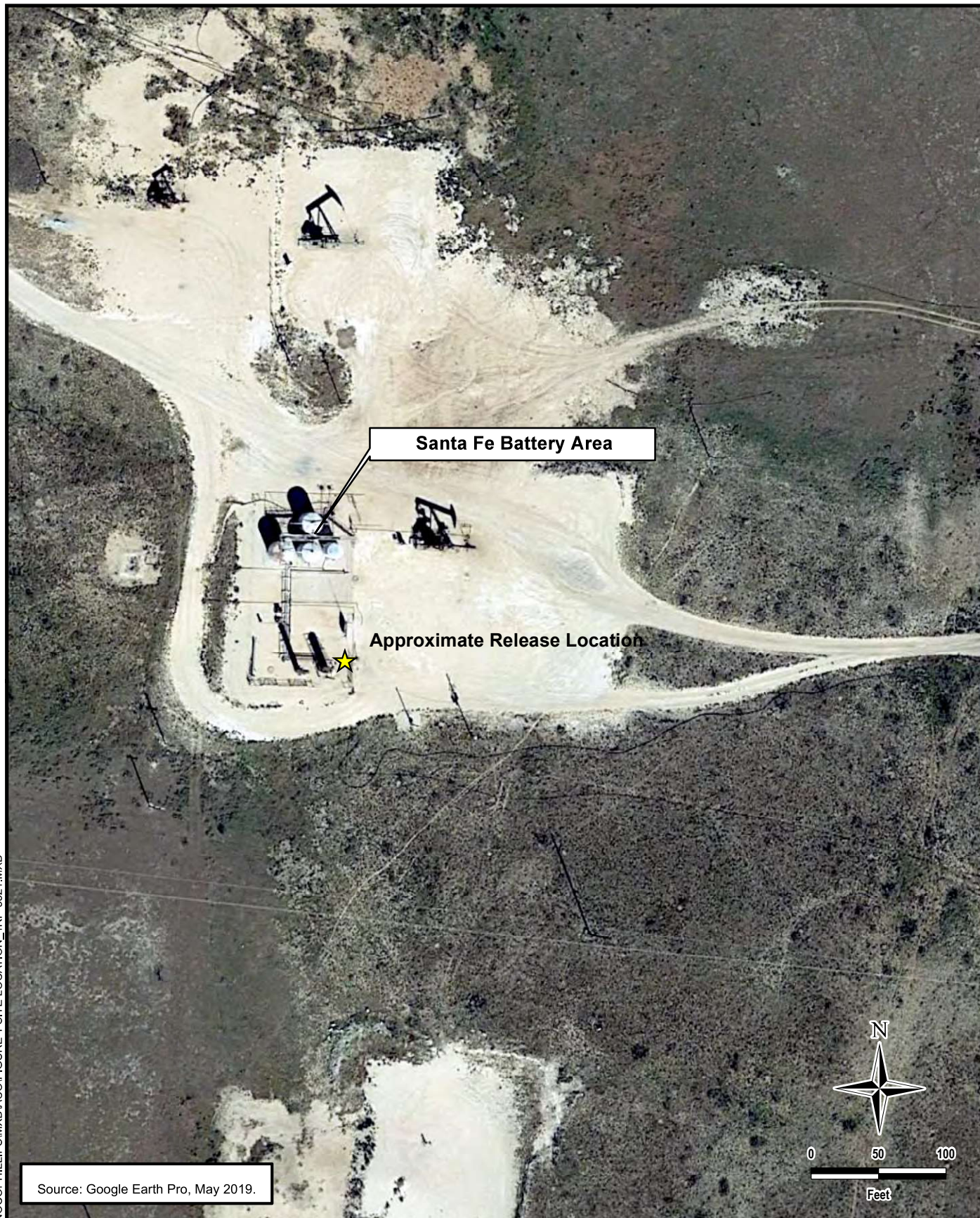
Sincerely,



Christian M. Llull  
Project Manager  
Tetra Tech, Inc.



## **FIGURES**



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\FIGURE 1 SITE LOCATION\_1RP-3321.MXD



**TETRA TECH**

www.tetrattech.com

901 West Wall Street, Suite 100  
Midland, Texas 79701  
Phone: (432) 682-4559  
Fax: (432) 682-3946

CONOCOPHILLIPS

1RP-3321

(32.78543674°, -103.4947358°)  
LEA COUNTY, NEW MEXICO

**SANTA FE BATTERY HEATER TREATER RELEASE  
SITE LOCATION MAP**

PROJECT NO.: 212C-MD-02152

DATE: JUNE 24, 2020

DESIGNED BY: AAM

Figure No.

**1**

**ATTACHMENT A**  
**C-141 Forms**



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

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

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

## Release Notification and Corrective Action

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: <b>ConocoPhillips</b>	Contact: <b>Spencer Cluff</b>
Address: <b>29 Vacuum Complex Lane</b>	Telephone No. <b>575-391-3143</b>
Facility Name: <b>Santa Fe Battery</b>	Facility Type: <b>Heater Treater</b>

Surface Owner: <b>NMOCD</b>	Mineral Owner <b>NMOCD</b>	API No. <b>30-025-32333</b>
-----------------------------	----------------------------	-----------------------------

### LOCATION OF RELEASE

Unit Letter <b>O</b>	Section <b>31</b>	Township <b>17S</b>	Range <b>35E</b>	Feet from the <b>435</b>	North/South Line <b>South</b>	Feet from the <b>1930</b>	East/West Line <b>East</b>	County <b>LEA</b>
-------------------------	----------------------	------------------------	---------------------	-----------------------------	----------------------------------	------------------------------	-------------------------------	----------------------

Latitude 32.7854367361682 Longitude - 103.494735819723

### NATURE OF RELEASE

Type of Release: <b>Spill</b>	Volume of Release: <b>20 BBLS</b>	Volume Recovered: <b>10 BBLS</b>
Source of Release: <b>Heater Treater</b>	Date and Hour of Occurrence <b>09/11/14 4:00 am</b>	Date and Hour of Discovery <b>09/12/2014 7:3- am</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Tomáš Oberding</b>	
By Whom? <b>Spencer Cluff</b>	Date and Hour: <b>09/12/2014 7:10 am</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

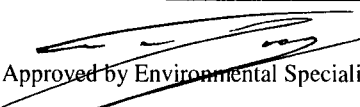
Describe Cause of Problem and Remedial Action Taken.\*

On September 12th, 2014, in the early morning hours, at the Santa Fe 133 Battery, a release of oil and produced water occurred. The release originated from the test heater that fell over and was damaged during heavy thunderstorms. Operations was contacted by an offset operator and informed that the heater had fallen. The lease was shut in at the time of the incident. The affected area was 200 ft. X 200 ft. X 0.25 inches deep and resulted in 10 bbls oil and 10 bbls produced water, with 10 bbls recovered. The affected area will be remediated according to NMOCD guidelines.

Describe Area Affected and Cleanup Action Taken.\*

The lease was shut in at the time of the incident.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Spencer A. Cluff</i>		<h3>OIL CONSERVATION DIVISION</h3>  <p>Approved by Environmental Specialist:</p>	
Printed Name: Spencer Cluff			
Title: <b>HSE Lead</b>	Approval Date: <b>9-15-14</b>	Expiration Date: <b>11-15-14</b>	
E-mail Address: <b>spencer.a.cluff@conocophillips.com</b>	Conditions of Approval: <i>Site Supply agreed</i> <i>Delineate &amp; remediate man as per NMOCD guide. Submit find</i>		Attached <input type="checkbox"/> <b>IRP-3321</b>
Date: 09/15/2014	Phone: 575-391-3143	<i>C-141 by 11-15-14</i> <i>09-19 2,7817</i> <i>11-14-25 85 7071</i> <i>11-14-25 85 7207</i>	

\* Attach Additional Sheets If Necessary



Incident ID	
District RP	1RP-3321
Facility ID	
Application ID	

## Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

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

Printed Name: Charles BeauvaisTitle: Environmental CoordinatorSignature: Charles R. Beauvais IIDate: 10/19/2020email: charles.r.beauvais@conocophillips.comTelephone: 575-988-2043

### OCD Only

Received by: Jocelyn HarimonDate: 04/18/2023

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

Closure Approved by: closure not approvedDate: 04/18/2023Printed Name: Jocelyn HarimonTitle: Environmental Specialist

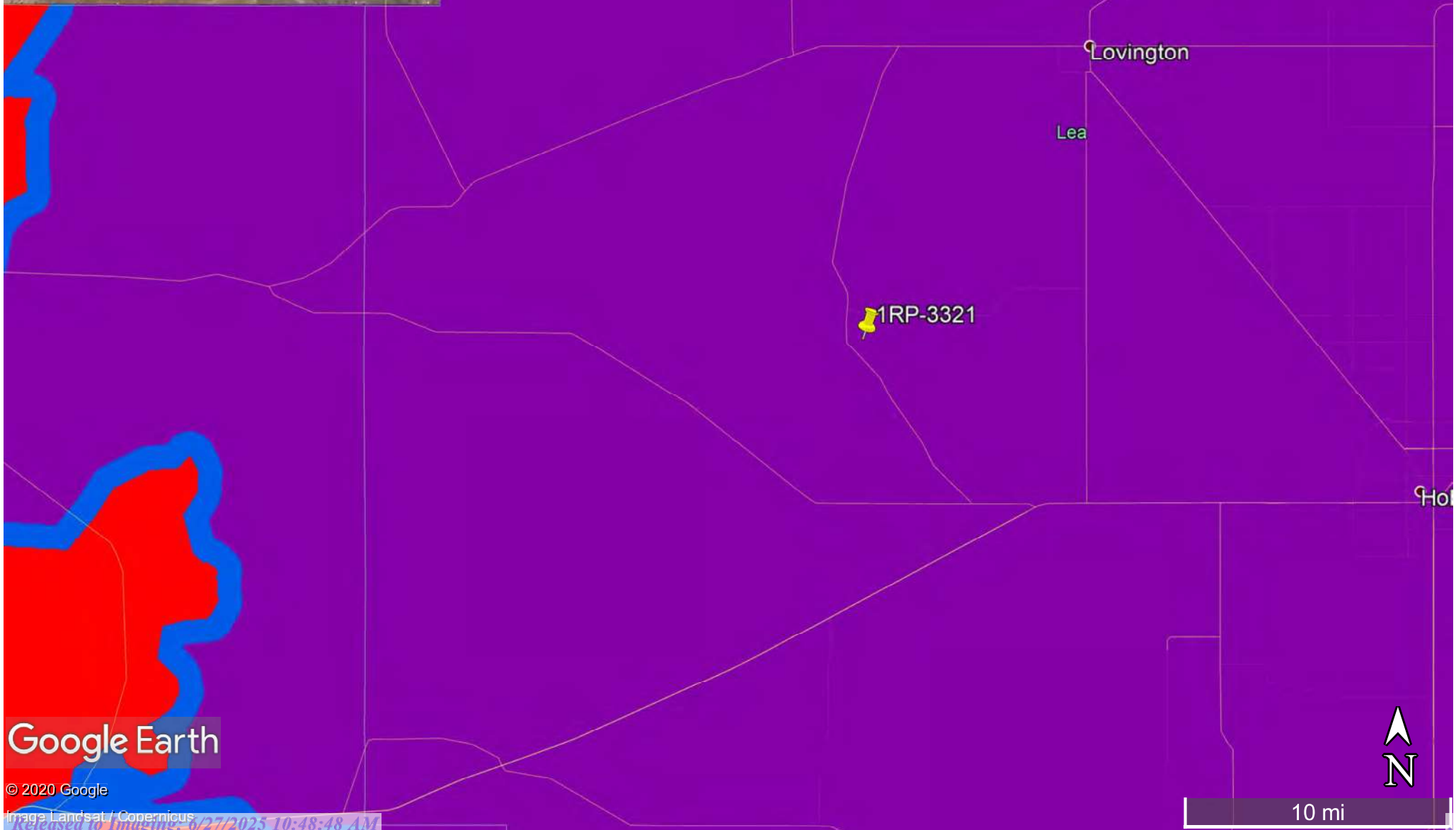
**ATTACHMENT B**  
**Site Characterization Data**

# KARST POTENTIAL MAP

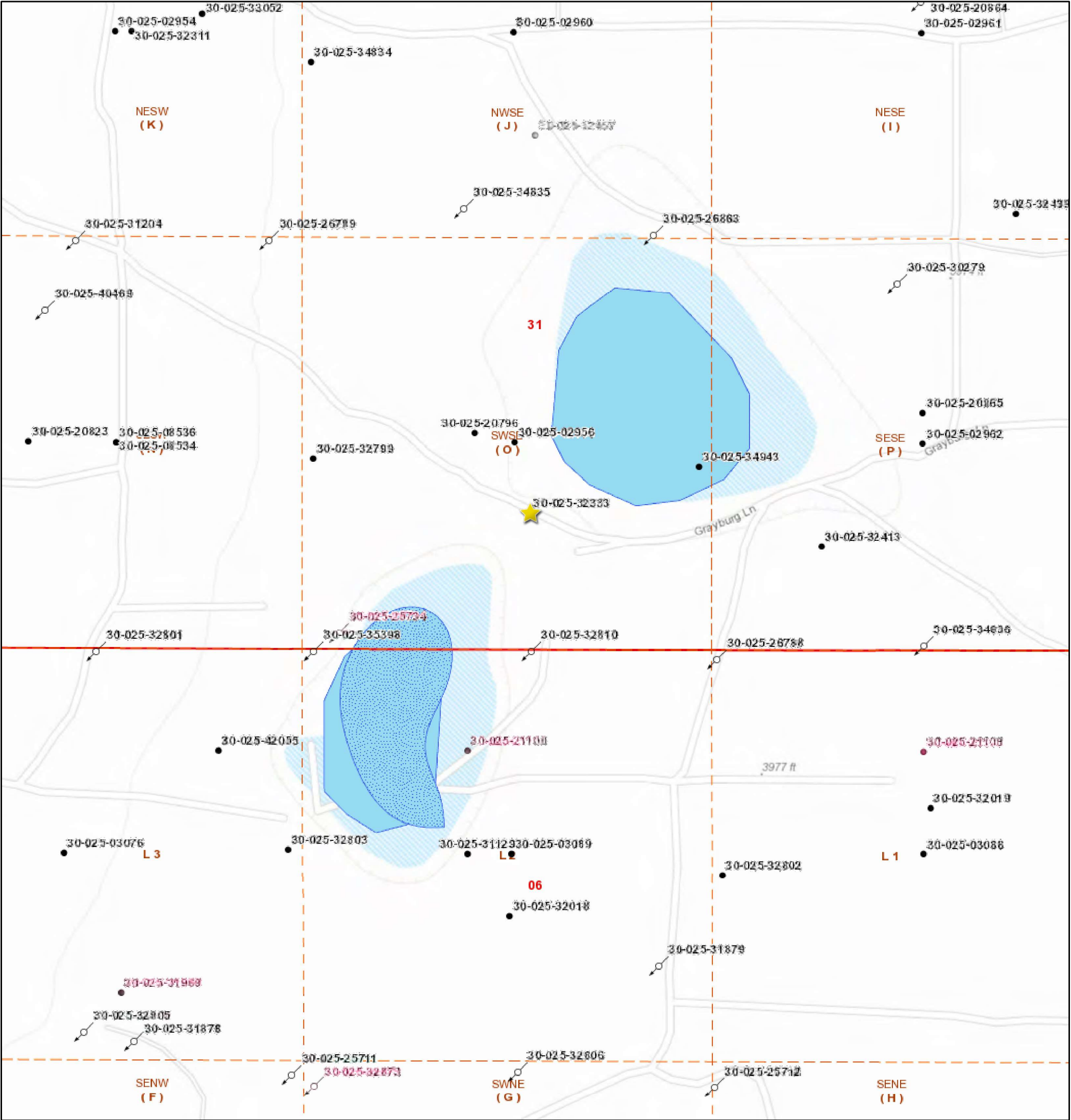
1RP-3321

## Legend

-  1RP-3321
-  High
-  Low
-  Medium



1RP-3321



7/27/2020, 4:26:18 PM

- Override 1

Wells - Large Scale

?

 undefined

Miscellaneous

CO2, Active

CO2, Cancelled

CO2, New

CO2, Plugged

CO2, Temporarily Abandoned

Gas, Active

Gas, Cancelled

Gas, New

Gas, Plugged

Gas, Temporarily Abandoned

Injection, Active

Injection, Cancelled

Injection, New

Injection, Plugged

Injection, Temporarily Abandoned

Oil, Active

Oil, Cancelled

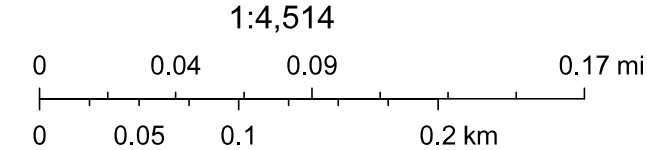
Oil, New

Oil, Plugged

Oil, Temporarily Abandoned

Salt Water Injection, Active

Salt Water Injection, Cancelled
- Salt Water Injection, New
- Salt Water Injection, Plugged
- Salt Water Injection, Temporarily Abandoned
- Water, Active
- Water, Cancelled
- Water, New
- Water, Plugged
- Water, Temporarily Abandoned
- OCD District Offices
- PLSS First Division
- PLSS Second Division
- OSE Streams
- OSE Water-bodies



Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI,





## New Mexico Office of the State Engineer

# Water Column/Average Depth to Water

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

(R=POD has been replaced,  
O=orphaned,

C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water Column
<a href="#">L 13392 POD13</a>	L	LE		4	1	2	06	18S	35E	641128	3628091		443			
<a href="#">L 13392 POD12</a>	L	LE		4	1	2	06	18S	35E	641148	3628085		456			
<a href="#">L 13392 POD1</a>	L	LE		4	1	2	06	18S	35E	641125	3628069		462			
<a href="#">L 13392 POD19</a>	L	LE		3	2	2	06	18S	35E	641155	3628080		463	138		
<a href="#">L 13392 POD2</a>	L	LE		4	1	2	06	18S	35E	641151	3628069		472			
<a href="#">L 13392 POD3</a>	L	LE		4	1	2	06	18S	35E	641126	3628050		480			
<a href="#">L 13392 POD4</a>	L	LE		4	1	2	06	18S	35E	641152	3628054		486			
<a href="#">L 13392 POD15</a>	L	LE		4	1	2	06	18S	35E	641119	3628041		486	137		
<a href="#">L 13392 POD5</a>	L	LE		4	1	2	06	18S	35E	641123	3628029		499			
<a href="#">L 13392 POD6</a>	L	LE		4	1	2	06	18S	35E	641144	3628032		503			
<a href="#">L 13041 POD1</a>	L	LE			2	2	06	18S	35E	641152	3628026		512	130		
<a href="#">L 13041 POD2</a>	L	LE			2	2	06	18S	35E	641152	3628026		512	140		
<a href="#">L 13041 POD3</a>	L	LE			2	2	06	18S	35E	641152	3628026		512	140		
<a href="#">L 13041 POD4</a>	L	LE			2	2	06	18S	35E	641152	3628026		512	140		
<a href="#">L 13392 POD20</a>	L	LE		4	1	2	06	18S	35E	641081	3628000		516	138		
<a href="#">L 13392 POD14</a>	L	LE		4	1	2	06	18S	35E	641118	3628007		519	133		
<a href="#">L 13392 POD7</a>	L	LE		4	1	2	06	18S	35E	641149	3628017		519			
<a href="#">L 13392 POD18</a>	L	LE		4	1	2	06	18S	35E	641143	3628014		520	138		
<a href="#">L 13392 POD8</a>	L	LE		4	1	2	06	18S	35E	641131	3628001		528			
<a href="#">L 13392 POD9</a>	L	LE		4	1	2	06	18S	35E	641147	3628002		533			
<a href="#">L 13392 POD17</a>	L	LE		4	1	2	06	18S	35E	641149	3627992		543	138		
<a href="#">L 13392 POD10</a>	L	LE		4	1	2	06	18S	35E	641124	3627980		546			
<a href="#">L 13392 POD11</a>	L	LE		4	1	2	06	18S	35E	641147	3627980		553			
<a href="#">L 13392 POD16</a>	L	LE		3	2	2	06	18S	35E	641171	3627989		554	138		
<a href="#">L 07119 S</a>	L	LE		1	2	1	06	18S	35E	640445	3628259*		572	233	95	138

Average Depth to Water: **95 feet**  
Minimum Depth: **95 feet**  
Maximum Depth: **95 feet**

**Record Count:**25

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

**Easting (X):** 640963

**Northing (Y):** 3628502,698

**Radius:** 800

\*UTM location was derived from PLSS - see Help

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

9/15/20 12:23 PM

WATER COLUMN/ AVERAGE DEPTH TO  
WATER

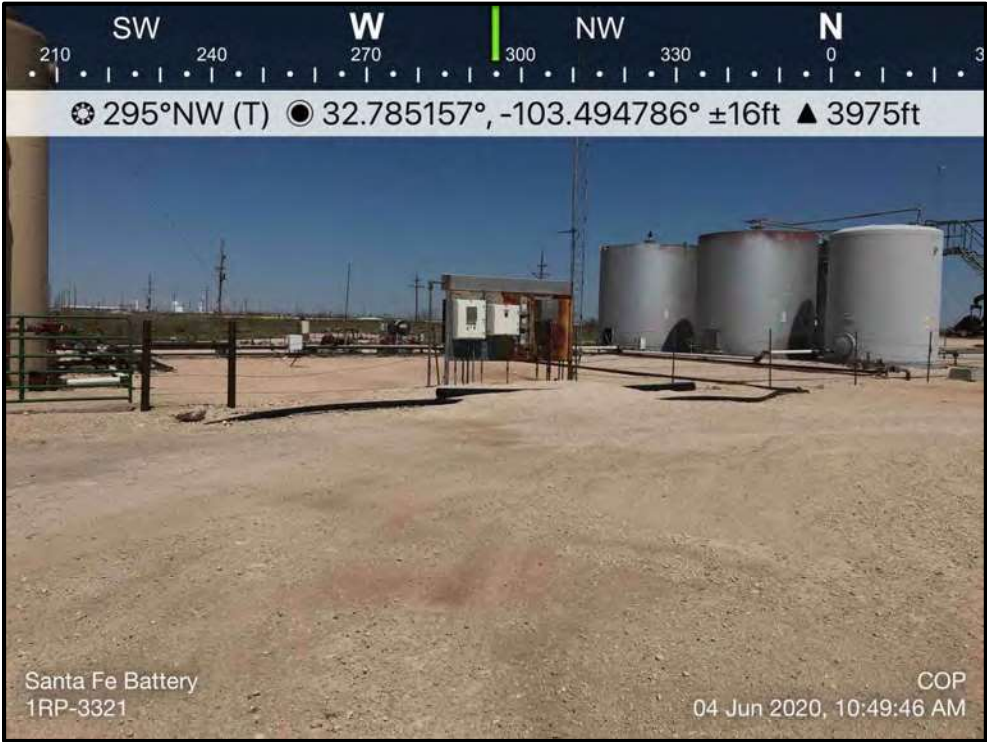
## **ATTACHMENT C**

### **Photographic Documentation**





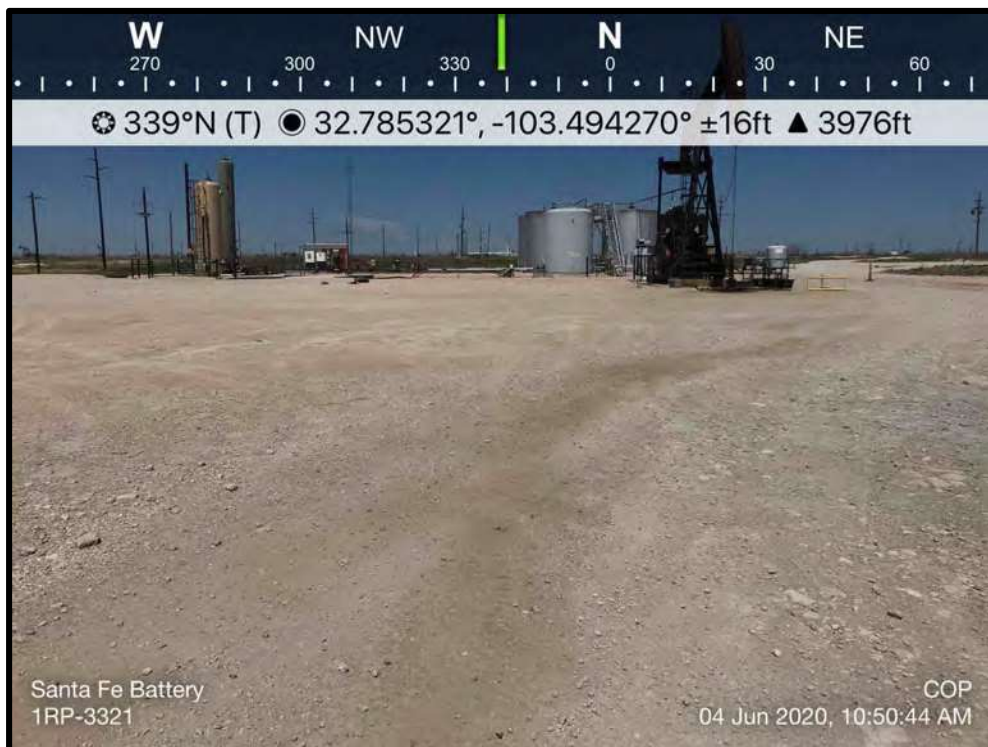
TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing northwest of well pad. Heater treater and battery tanks in background.	1
	SITE NAME	Santa Fe Battery Heater Treater Release	6/4/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing northwest of control panels and battery tanks.	2
	SITE NAME	Santa Fe Battery Heater Treater Release	6/4/2020

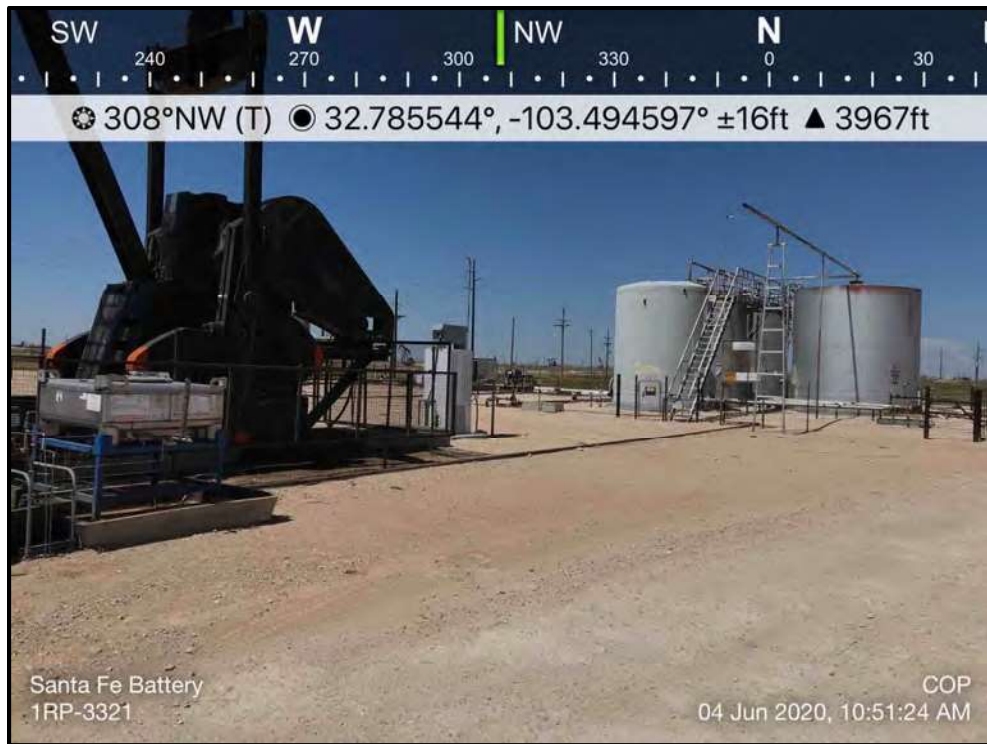


TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing east of well pad. Lease road in background.	3
	SITE NAME	Santa Fe Battery Heater Treater Release	6/4/2020

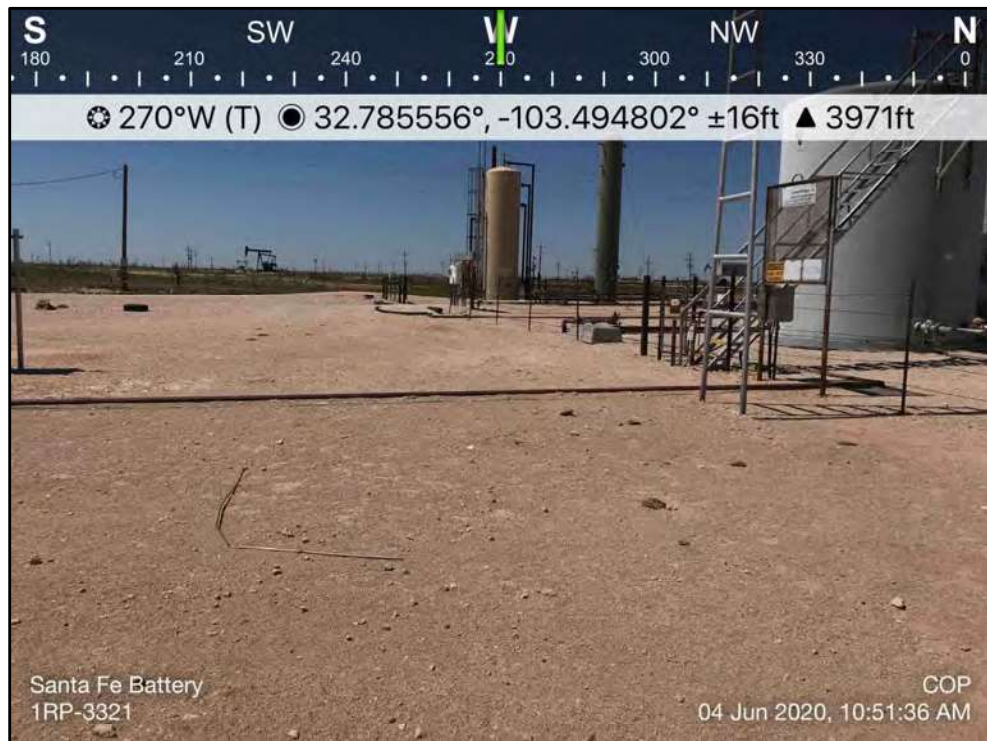


TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing northwest of well pad and equipment.	4
	SITE NAME	Santa Fe Battery Heater Treater Release	6/4/2020





TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing northwest of pumpjack and battery tanks.	5
	SITE NAME	Santa Fe Battery Heater Treater Release	6/4/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing west of heater treater and battery tanks.	6
	SITE NAME	Santa Fe Battery Heater Treater Release	6/4/2020





TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing east of heater treater and battery tanks.	7
	SITE NAME	Santa Fe Battery Heater Treater Release	6/4/2020





TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing southeast of well head.	8
	SITE NAME	Santa Fe Battery Heater Treater Release	6/4/2020



nTO1425857071

Initial Site Assessment Locaitons

### Legend

-  nTO1425857071 Sample Area
-  Soil Boring



Google Earth

Released to Imaging: 6/27/2025 10:48:48 AM

Image © 2025 Airbus

100 ft



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

June 26, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: SANTA FE #133

Enclosed are the results of analyses for samples received by the laboratory on 06/20/24 8:33.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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,

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 06/20/2024  
 Reported: 06/26/2024  
 Project Name: SANTA FE #133  
 Project Number: nTO1425887071  
 Project Location: LEA COUNTY

Sampling Date: 06/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BH 1 (0-0.5') (H243625-01)**

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	06/22/2024	ND	2.10	105	2.00	0.266	
Toluene*	<0.050	0.050	06/22/2024	ND	2.13	106	2.00	0.962	
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	2.19	109	2.00	0.728	
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.68	111	6.00	0.924	
Total BTX	<0.300	0.300	06/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	06/24/2024	ND	432	108	400	3.64		

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	06/22/2024	ND	191	95.7	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/22/2024	ND	217	108	200	0.719	
EXT DRO >C28-C36	<10.0	10.0	06/22/2024	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 06/20/2024  
 Reported: 06/26/2024  
 Project Name: SANTA FE #133  
 Project Number: nTO1425887071  
 Project Location: LEA COUNTY

Sampling Date: 06/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BH 1 (2-2.5') (H243625-02)**

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2024	ND	2.10	105	2.00	0.266	
Toluene*	<0.050	0.050	06/22/2024	ND	2.13	106	2.00	0.962	
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	2.19	109	2.00	0.728	
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.68	111	6.00	0.924	
Total BTX	<0.300	0.300	06/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	48.0	16.0	06/24/2024	ND	432	108	400	3.64	

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	06/22/2024	ND	191	95.7	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/22/2024	ND	217	108	200	0.719	
EXT DRO >C28-C36	<10.0	10.0	06/22/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 06/20/2024  
 Reported: 06/26/2024  
 Project Name: SANTA FE #133  
 Project Number: nTO1425887071  
 Project Location: LEA COUNTY

Sampling Date: 06/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BH 2 (0-0.5') (H243625-03)**

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	06/22/2024	ND	2.10	105	2.00	0.266	
Toluene*	<0.050	0.050	06/22/2024	ND	2.13	106	2.00	0.962	
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	2.19	109	2.00	0.728	
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.68	111	6.00	0.924	
Total BTEx	<0.300	0.300	06/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/24/2024	ND	432	108	400	3.64		

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	06/22/2024	ND	191	95.7	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/22/2024	ND	217	108	200	0.719	
EXT DRO >C28-C36	<10.0	10.0	06/22/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 06/20/2024  
 Reported: 06/26/2024  
 Project Name: SANTA FE #133  
 Project Number: nTO1425887071  
 Project Location: LEA COUNTY

Sampling Date: 06/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BH 2 (2-2.5') (H243625-04)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2024	ND	2.10	105	2.00	0.266	
Toluene*	<0.050	0.050	06/22/2024	ND	2.13	106	2.00	0.962	
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	2.19	109	2.00	0.728	
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.68	111	6.00	0.924	
Total BTX	<0.300	0.300	06/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	96.0	16.0	06/24/2024	ND	432	108	400	3.64	

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	06/22/2024	ND	191	95.7	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/22/2024	ND	217	108	200	0.719	
EXT DRO >C28-C36	<10.0	10.0	06/22/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 06/20/2024  
 Reported: 06/26/2024  
 Project Name: SANTA FE #133  
 Project Number: nTO1425887071  
 Project Location: LEA COUNTY

Sampling Date: 06/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BH 3 (0-0.5') (H243625-05)**

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	06/22/2024	ND	2.10	105	2.00	0.266		
Toluene*	<0.050	0.050	06/22/2024	ND	2.13	106	2.00	0.962		
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	2.19	109	2.00	0.728		
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.68	111	6.00	0.924		
Total BTEx	<0.300	0.300	06/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-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	06/24/2024	ND	432	108	400	3.64		

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	06/21/2024	ND	198	98.9	200	0.900	
DRO >C10-C28*	<10.0	10.0	06/21/2024	ND	187	93.3	200	0.578	
EXT DRO >C28-C36	<10.0	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 06/20/2024  
 Reported: 06/26/2024  
 Project Name: SANTA FE #133  
 Project Number: nTO1425887071  
 Project Location: LEA COUNTY

Sampling Date: 06/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BH 3 (2-2.5') (H243625-06)**

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	06/22/2024	ND	2.10	105	2.00	0.266	
Toluene*	<0.050	0.050	06/22/2024	ND	2.13	106	2.00	0.962	
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	2.19	109	2.00	0.728	
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.68	111	6.00	0.924	
Total BTEX	<0.300	0.300	06/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	06/24/2024	ND	432	108	400	3.64	

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	06/21/2024	ND	198	98.9	200	0.900	
DRO >C10-C28*	<10.0	10.0	06/21/2024	ND	187	93.3	200	0.578	
EXT DRO >C28-C36	<10.0	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.3 % 49.1-148

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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 06/20/2024  
 Reported: 06/26/2024  
 Project Name: SANTA FE #133  
 Project Number: nTO1425887071  
 Project Location: LEA COUNTY

Sampling Date: 06/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BH 4 (0-0.5') (H243625-07)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/22/2024	ND	2.10	105	2.00	0.266		
Toluene*	<0.050	0.050	06/22/2024	ND	2.13	106	2.00	0.962		
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	2.19	109	2.00	0.728		
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.68	111	6.00	0.924		
Total BTX	<0.300	0.300	06/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-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	06/24/2024	ND	432	108	400	3.64		

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	06/21/2024	ND	198	98.9	200	0.900	
DRO >C10-C28*	<10.0	10.0	06/21/2024	ND	187	93.3	200	0.578	
EXT DRO >C28-C36	<10.0	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.5 % 49.1-148

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**Analytical Results For:**

TETRA TECH  
 CHUCK TERHUNE  
 901 WEST WALL STREET , STE 100  
 MIDLAND TX, 79701  
 Fax To: (432) 682-3946

Received: 06/20/2024  
 Reported: 06/26/2024  
 Project Name: SANTA FE #133  
 Project Number: nTO1425887071  
 Project Location: LEA COUNTY

Sampling Date: 06/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BH 4 (2-2.5') (H243625-08)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/22/2024	ND	2.10	105	2.00	0.266	
Toluene*	<0.050	0.050	06/22/2024	ND	2.13	106	2.00	0.962	
Ethylbenzene*	<0.050	0.050	06/22/2024	ND	2.19	109	2.00	0.728	
Total Xylenes*	<0.150	0.150	06/22/2024	ND	6.68	111	6.00	0.924	
Total BTX	<0.300	0.300	06/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/24/2024	ND	432	108	400	3.64		

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	06/21/2024	ND	198	98.9	200	0.900	
DRO >C10-C28*	<10.0	10.0	06/21/2024	ND	187	93.3	200	0.578	
EXT DRO >C28-C36	<10.0	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 49.1-148

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---

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---

### Notes and Definitions

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

---

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A handwritten signature in black ink, appearing to read "Celey 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**

[illegible]

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

QUESTIONS

Action 457240

**QUESTIONS**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 457240
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nTO1425857071
Incident Name	NT01425857071 SANTA FE #133 @ 30-025-32333
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-32333] SANTA FE #133

**Location of Release Source**

Please answer all the questions in this group.

Site Name	SANTA FE #133
Date Release Discovered	09/11/2014
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	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error   Separator   Produced Water   Released: 20 BBL   Recovered: 10 BBL   Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 457240

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 457240
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	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: Chuck Terhune Title: Program Manager Email: <a href="mailto:chuck.terhune@tetrattech.com">chuck.terhune@tetrattech.com</a> Date: 07/12/2024
--	--



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QUESTIONS, Page 3

Action 457240

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 457240
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 100 (ft.)
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 ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 100 (ft.)
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

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	96
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	08/01/2025
On what date will (or did) the final sampling or liner inspection occur	08/15/2025
On what date will (or was) the remediation complete(d)	08/30/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	40000
What is the estimated volume (in cubic yards) that will be remediated	5926
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 457240

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 457240
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**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	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<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: Chuck Terhune Title: Program Manager Email: <a href="mailto:chuck.terhune@tetrattech.com">chuck.terhune@tetrattech.com</a> Date: 04/30/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 457240

QUESTIONS (continued)

Operator:  Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:  331199
	Action Number:  457240
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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



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

QUESTIONS, Page 6

Action 457240

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 457240
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	355210
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/19/2024
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	800

**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	No
--	----

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

CONDITIONS

Action 457240

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 457240
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	The Sampling and Remediation Work Plan is approved with one stipulation: delineation samples cannot be used for confirmation purposes due to differing collection methods. For clarity, confirmation requires a 5-point composite sample from the sidewalls and floor, whereas delineation is a single-point grab sample.	6/27/2025