



EAST VACUUM (GSA) UNIT #001

nOY1803031043

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

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

April 9, 2025



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

Re: Proposed Sampling and Remediation Work Plan  
 NMOCD Incident Number: **nOY1803031043**  
 East Vacuum (GSA) Unit #001 API No. 30-025-26658  
 Unit N, Section 33, Township 17S, Range 35E 300 FSL 2500 FWL Lea County, NM  
 GPS Coordinates: Latitude 32.7849197 Longitude -103.4631271 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 crude oil release that occurred at the East Vacuum (GSA) Unit #001 (Site). This incident was assigned Incident ID nOY1803031043 by the New Mexico Oil Conservation Division (NMOCD).

### ***Release Information – nOY1803031043***

The initial Form C-141 was submitted on January 29, 2018 (Appendix A) and stated that “MSO discovered a leak that resulted in 5 BO released with 1.5 BO recovered. MSO found a broken offside casing nipple. MSO isolated the flowline and repairs were completed. Area 1 – 105’ x 45 x 1” Area 2 – 20’ x 15’ x 1”.” This initial Form C-141 was approved by the NMOCD on January 30, 2018.

### ***Site Characterization***

This Site is in Lea County, NM, approximately twelve (12) miles southwest of Lovington, NM. The wellhead and release area are in Unit N, Section 33, Township 17S, Range 35E, at 32.7849197 degrees latitude and -103.4631271 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 type present at the Site is Kimbrough-Lea complex, dry, 0 to 3 percent slopes. The drainage class is well drained. Soil type information is according to the United States Department of Agriculture Natural Resources Conservation Service soil survey. The Soil Survey 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 26.45 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 50 feet below grade surface (bgs). This information is recorded by L-04586 which is situated approximately 466 feet away from the Site. This information is from 1961. The United States Geological Survey (USGS) offers the site USGS 324655103274401 17S.35E.33.343421 which shows depth to the nearest groundwater is 63 feet bgs. The latest gauge of this site was conducted in 1981, and it is located approximately 575 feet from the Site.

The nearest surface water feature is an Unnamed Pond, and it is located approximately 2.83 miles to the northwest. The U.S. Fish and Wildlife Service National Wetlands Inventory shows the nearest wetland to be a Freshwater Pond approximately 0.22 miles southwest. 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 and undisturbed areas developed for oil and gas extraction; therefore, a cultural resource survey will be required in the pasture area at the Site for planned remediation activities. The requirements of the Cultural Properties Protection (CCP) Rule will be followed.

### ***Assessment and Previous Remedial Activities***

"In accordance with 19.15.29.8. B. (4) NMAC that states "the responsible party may commence remediation immediately after discovery of a release", ConocoPhillips elected to begin remediation of the impacted area in January 2019. ConocoPhillips personnel provided the release footprint as show in Figure 1. The footprint of the release on the pad was excavated to depths of 2-3 feet below grade to remove the visually impacted soils. Time-stamped photographs of the remediated site prior to backfill are included within Attachment D. These photographs have digital photographic documentation of the site location. The remediation extents are shown on Figure 2. The excavated soil was taken to an NMOCD approved facility for disposal. The excavated area was backfilled with clean soil."

On April 28, 2020, ConocoPhillips submitted a Closure Letter Report for this incident. This report was denied by the NMOCD on March 28, 2023. This documentation is available for reference in 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 5182 square feet and is partially on the pad surface and in the pasture.
- Collect discrete samples from within and around the edges of the release area to evaluate the presence of contaminants. Fifty-five (55) samples will be collected from 11 different sample points within the release area from depths of surface, 1', 2', 3', and 4' bgs. Twenty-five (25) samples will be collected from 5 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 confirmations 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 less than 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 less than 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 nOY1803031043 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





***Figures:***

**Proposed Sample Map**

**Special Status Plant/Wildlife Map**

**Karst Map**

**Topographic Map**

**Location Map**

## East Vacuum (GSA) Unit #001

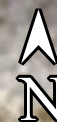
Maverick Permian  
API #30-025-26658  
Lea County, NM  
nOY1803031043  
Proposed Sample Map

### Legend

- East Vacuum (GSA) Unit #001
- Proposed horizontal samples
- Proposed vertical samples
- Release area - 5182 sqft

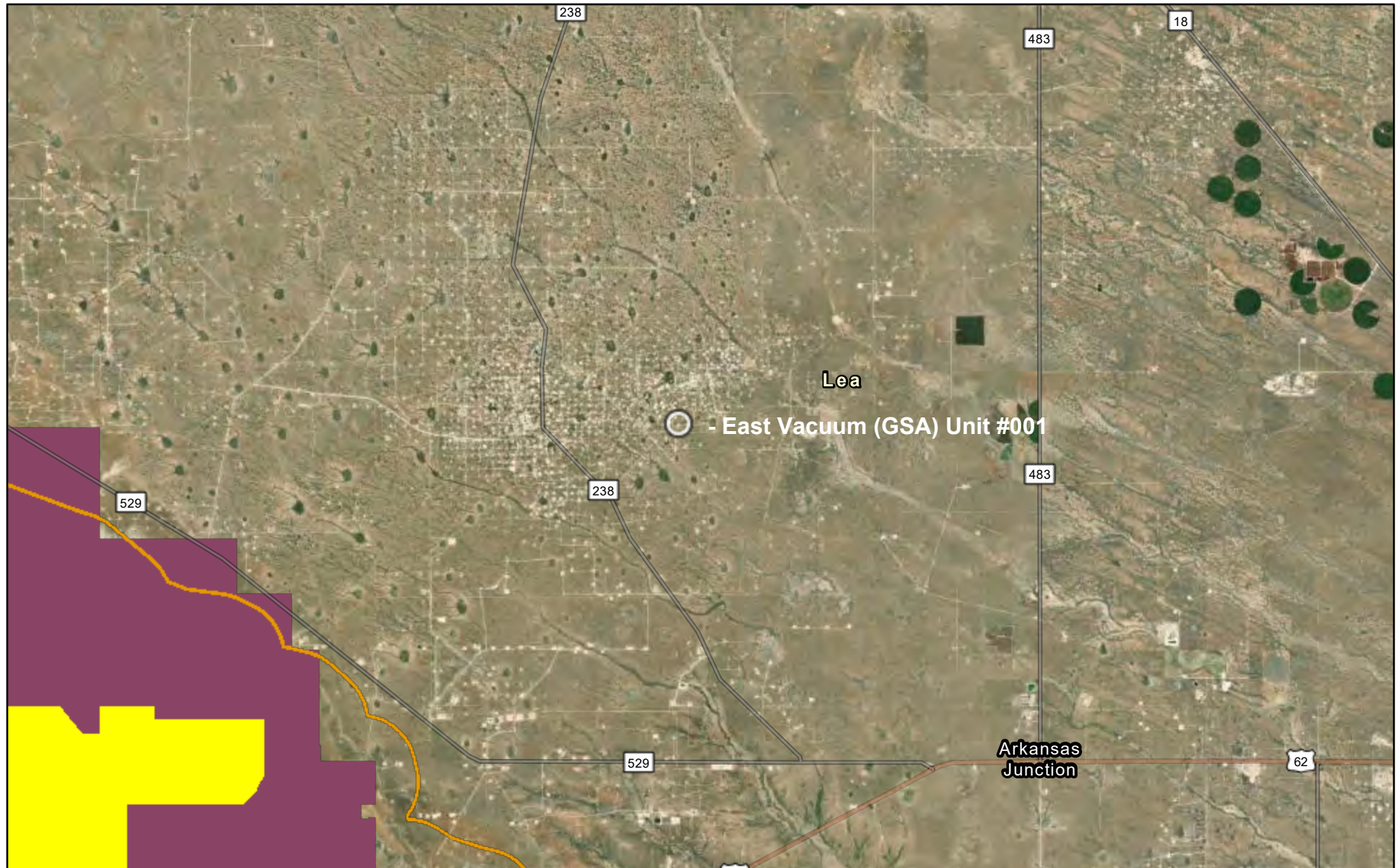


Google Earth









## Special Status Plant/Wildlife Map

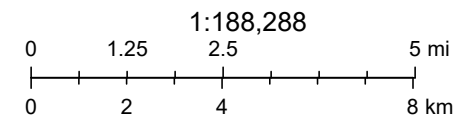


4/7/2025

-  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,



## East Vacuum (GSA) Unit #001

Maverick Permian  
API #30-025-26658  
Lea County, NM  
nOY1803031043  
Karst Map

### Legend

-  High Karst
-  Low Karst
-  Medium Karst

Google Earth

3 mi



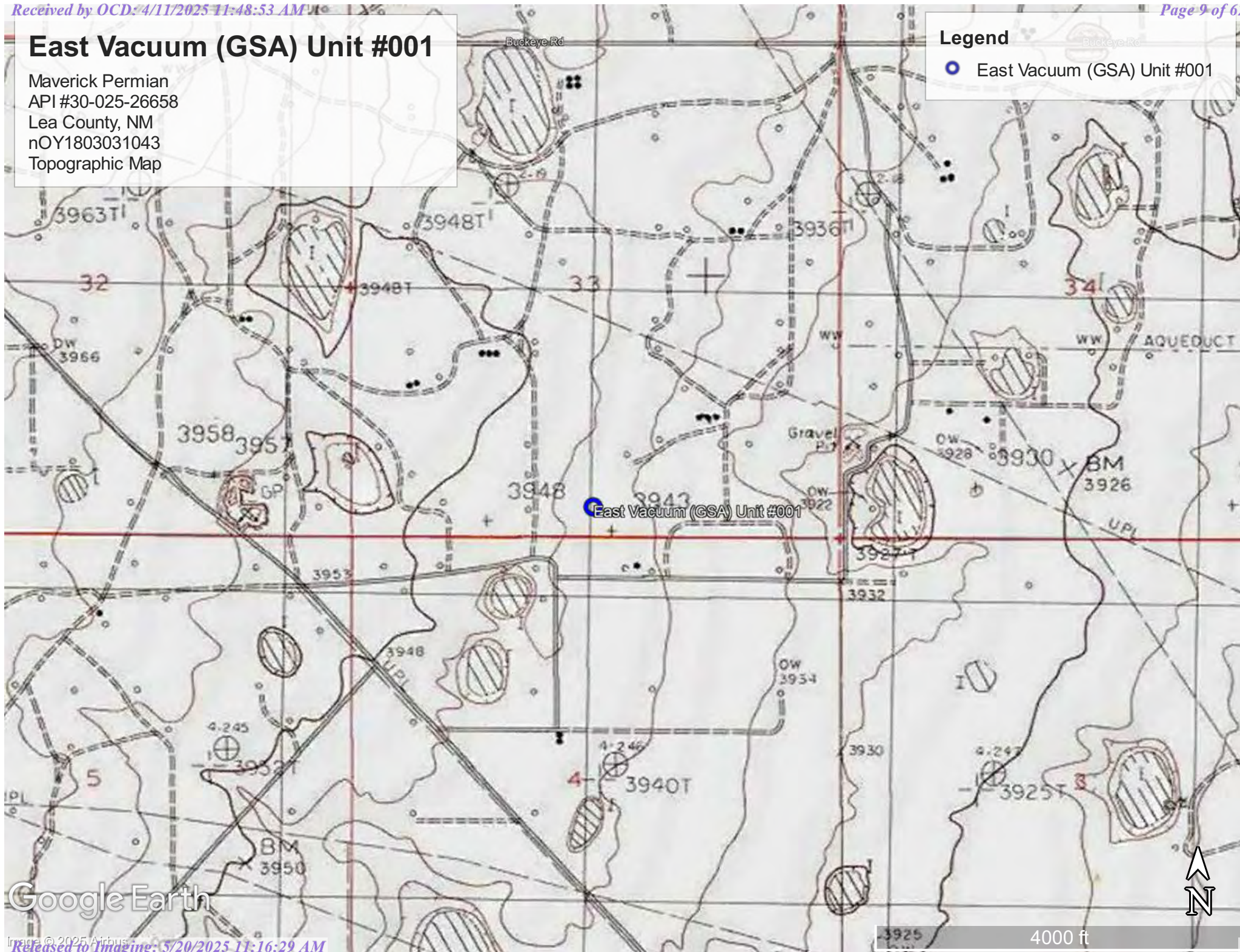


## East Vacuum (GSA) Unit #001

Maverick Permian  
API #30-025-26658  
Lea County, NM  
nOY1803031043  
Topographic Map

### Legend

- East Vacuum (GSA) Unit #001



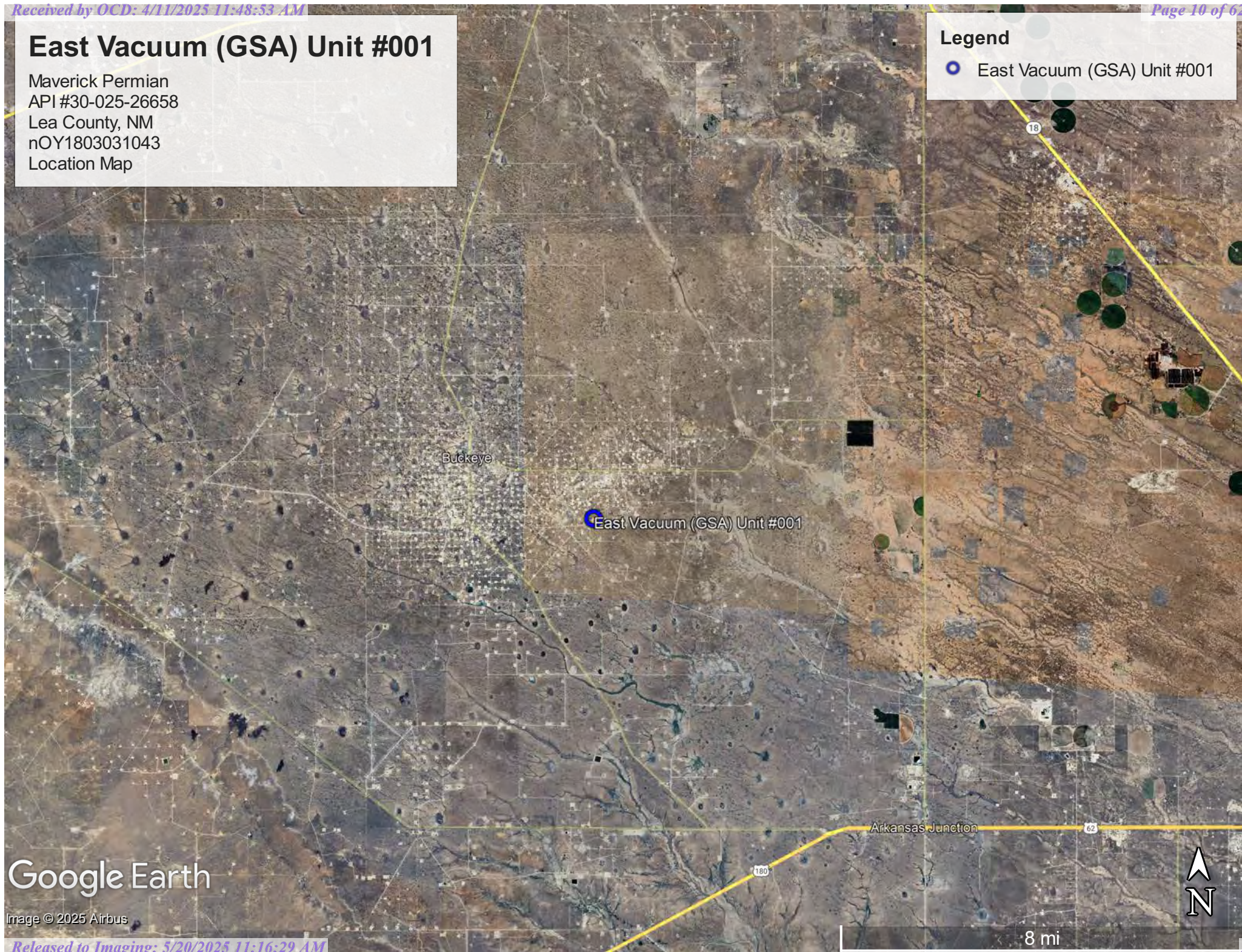


# East Vacuum (GSA) Unit #001

Maverick Permian  
API #30-025-26658  
Lea County, NM  
nOY1803031043  
Location Map

## Legend

- East Vacuum (GSA) Unit #001



Google Earth

Image © 2025 Airbus





**Sapeco-ECO**  
**5846 E 21<sup>st</sup> Place**  
**Tulsa, OK 74114**

## ***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>Cullen Rosine</b>
Address: <b>29 Vacuum Complex Lane</b>	Telephone No. <b>575-391-3133</b>
Facility Name: <b>EVGSAU 3345-001</b>	Facility Type: <b>Producing Well</b>

Surface Owner: <b>State</b>	Mineral Owner: <b>State</b>	API No. <b>30-025-26658</b>
-----------------------------	-----------------------------	-----------------------------

### LOCATION OF RELEASE

Unit Letter <b>N</b>	Section <b>33</b>	Township <b>17S</b>	Range <b>35E</b>	Feet from the	North/South Line	Feet from the	East/West Line	County <b>Lea</b>
-------------------------	----------------------	------------------------	---------------------	---------------	------------------	---------------	----------------	----------------------

Latitude 32.7849197 Longitude -103.4631271

### NATURE OF RELEASE

Type of Release: <b>Oil</b>	Volume of Release: <b>5 BBL</b>	Volume Recovered: <b>1.5 BBL</b>
Source of Release: <b>Offside casing nipple</b>	Date and Hour of Occurrence <b>1-27-2018 4:00 AM</b>	Date and Hour of Discovery <b>1-27-2018 12:30 PM</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Olivia Yu</b>	
By Whom? <b>Cullen Rosine</b>	Date and Hour: <b>1-29-2018 2:30 PM via email</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.\*

N/A

**RECEIVED**

**By Olivia Yu at 8:31 am, Jan 30, 2018**


Describe Cause of Problem and Remedial Action Taken. MSO discovered a leak that resulted in 5 BO released with 1.5 BO recovered. MSO found a broken offside casing nipple. MSO isolated the flowline and repairs were completed.

Describe Area Affected and Cleanup Action Taken. \*

Area 1 – 105' x 45' x 1"

Area 2 – 20' x 15' x 1"

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>Cullen Rosine</i>		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Cullen Rosine</b>		Approved by Environmental Specialist: 	
Title: <b>HSE Specialist</b>	Approval Date: <b>1/30/2018</b>	Expiration Date:	
E-mail Address: <b>Cullen.J.Rosine@conocophillips.com</b>	Conditions of Approval: <b>see attached directive</b>		Attached <input checked="" type="checkbox"/>
Date: <b>1-29-2018</b>	Phone: <b>575-391-3133</b>		

\* Attach Additional Sheets If Necessary

**1RP-4946**

**nOY1803031043**

**pOY1803031296**



## ***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 04586</a>		L	LE	SW	SW	SE	33	17S	35E	644065.0	3628502.0 *		142	125	50	75
<a href="#">L 04631</a>		L	LE	NE	NW	NW	04	18S	35E	643465.0	3628292.0 *		498	140	60	80
<a href="#">L 04880</a>		L	LE		NE	SW	33	17S	35E	643757.0	3629002.0 *		540	145	90	55
<a href="#">L 04578</a>		L	LE				33	17S	35E	643962.0	3629198.0 *		710	126	60	66
<a href="#">L 04633</a>		L	LE		NE	SE	33	17S	35E	644564.0	3629010.0 *		825	130	65	65
<a href="#">L 04498</a>		L	LE		SW	NW	04	18S	35E	643373.0	3627790.0 *		889	128	70	58
<a href="#">L 05834</a>	R	L	LE	NE	NE	SE	33	17S	35E	644663.0	3629109.0 *		965	160	70	90
<a href="#">L 05834 POD5</a>		L	LE	NE	NE	SE	33	17S	35E	644751.9	3629029.3		989	234	65	169
<a href="#">L 04618</a>		L	LE		SW	SW	34	17S	35E	644973.0	3628611.0 *		1056	128	55	73
<a href="#">L 04829 S5</a>		L	LE		SW	NW	33	17S	35E	643347.0	3629400.0 *		1078	220	90	130
<a href="#">L 04591</a>		L	LE		SE	NE	05	18S	35E	642970.0	3627785.0 *		1184	130	75	55
<a href="#">L 04829 S</a>		L	LE		SW	SE	32	17S	35E	642554.0	3628586.0 *		1373	198	85	113
<a href="#">L 04931</a>		L	LE		NW	NE	05	18S	35E	642561.0	3628183.0 *		1396	237	70	167

Average Depth to Water: 69 feet

Minimum Depth: 50 feet

Maximum Depth: 90 feet

Record Count: 13

Basin/County Search:

County: LE

UTM Filters (in meters):

Easting: 643923.64

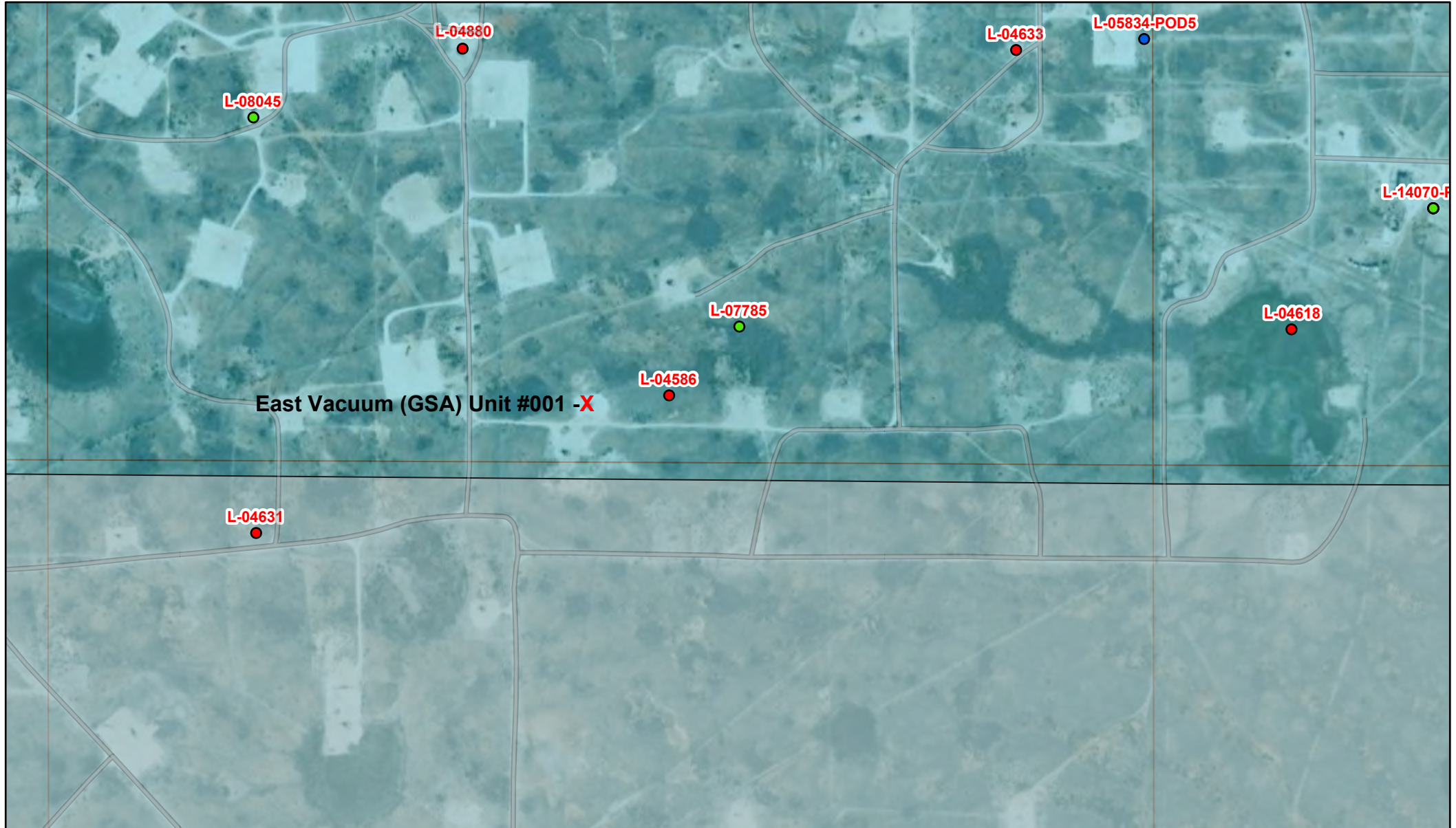
Northing: 3628488.30

Radius: 01500

\* 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.

# OSE POD Location Map



4/7/2025, 5:45:39 PM

GIS WATERS PODs

- Plugged
- Active
- Pending

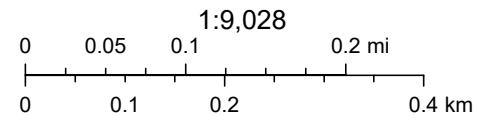
OSE District Boundary

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 =

- 324655103274401

Minimum number of levels = 1

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

### USGS 324655103274401 17S.35E.33.343421

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°47'05", Longitude 103°27'53" NAD27

Land-surface elevation 3,945.00 feet above NGVD29

The depth of the well is 126 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

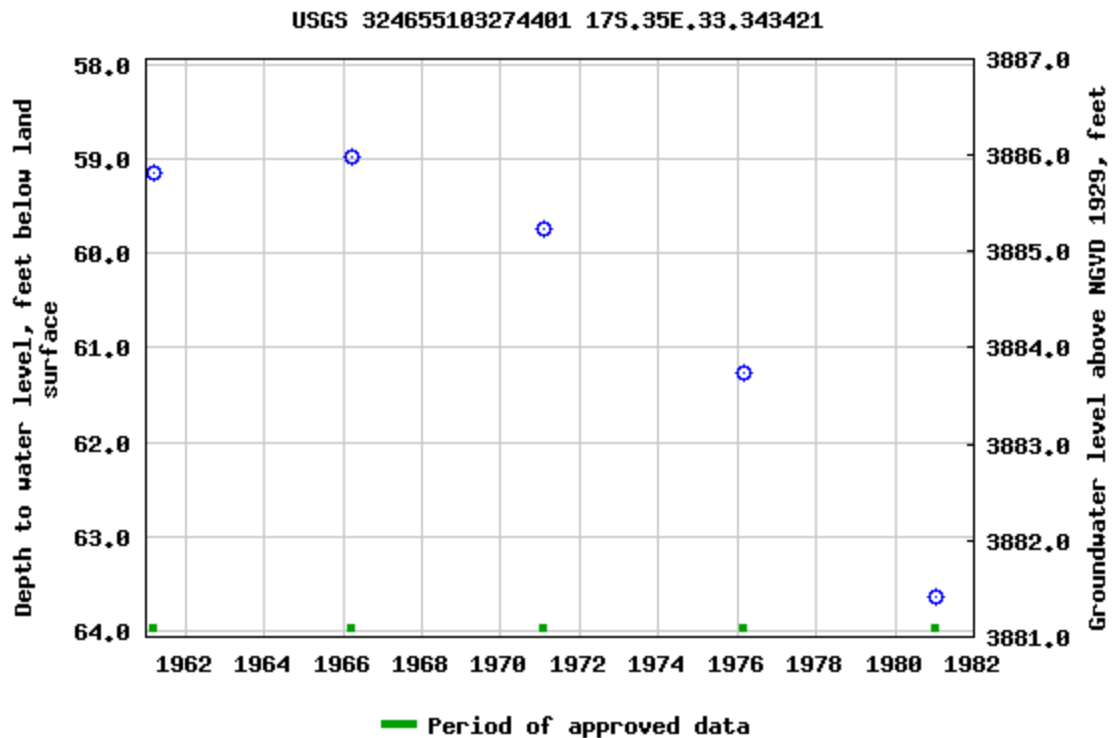
[Table of data](#)

[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](#)

[Questions or Comments](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[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?>**



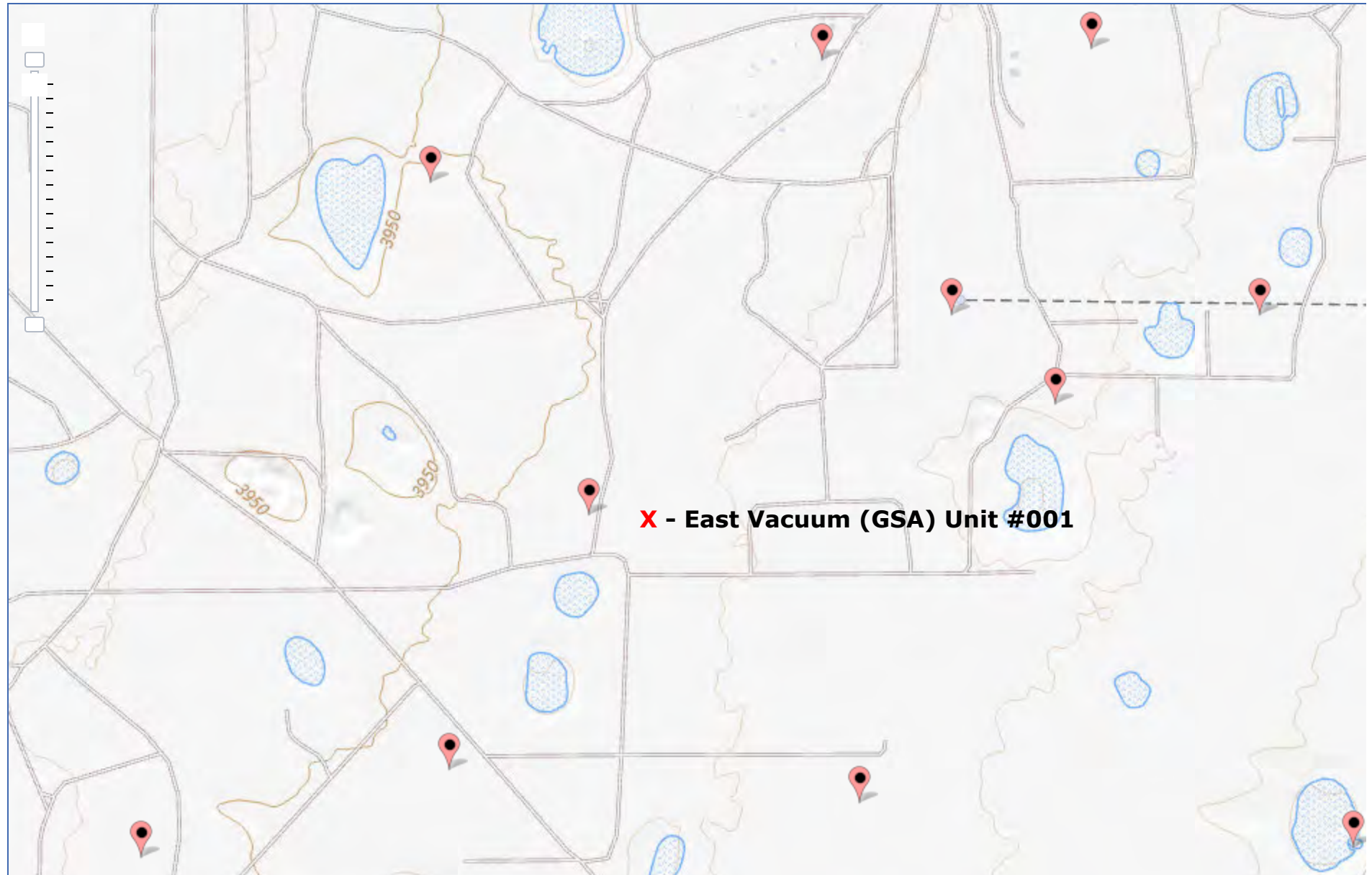
Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2025-04-07 19:01:44 EDT

0.76 0.54 nadww01



## National Water Information System: Mapper







## East Vacuum (GSA) Unit #001

Maverick Permian  
API #30-025-26658  
Lea County, NM  
nOY1803031043  
Surface Water Map

### Legend

-  2.83 Miles
-  Unnamed Pond



Google Earth

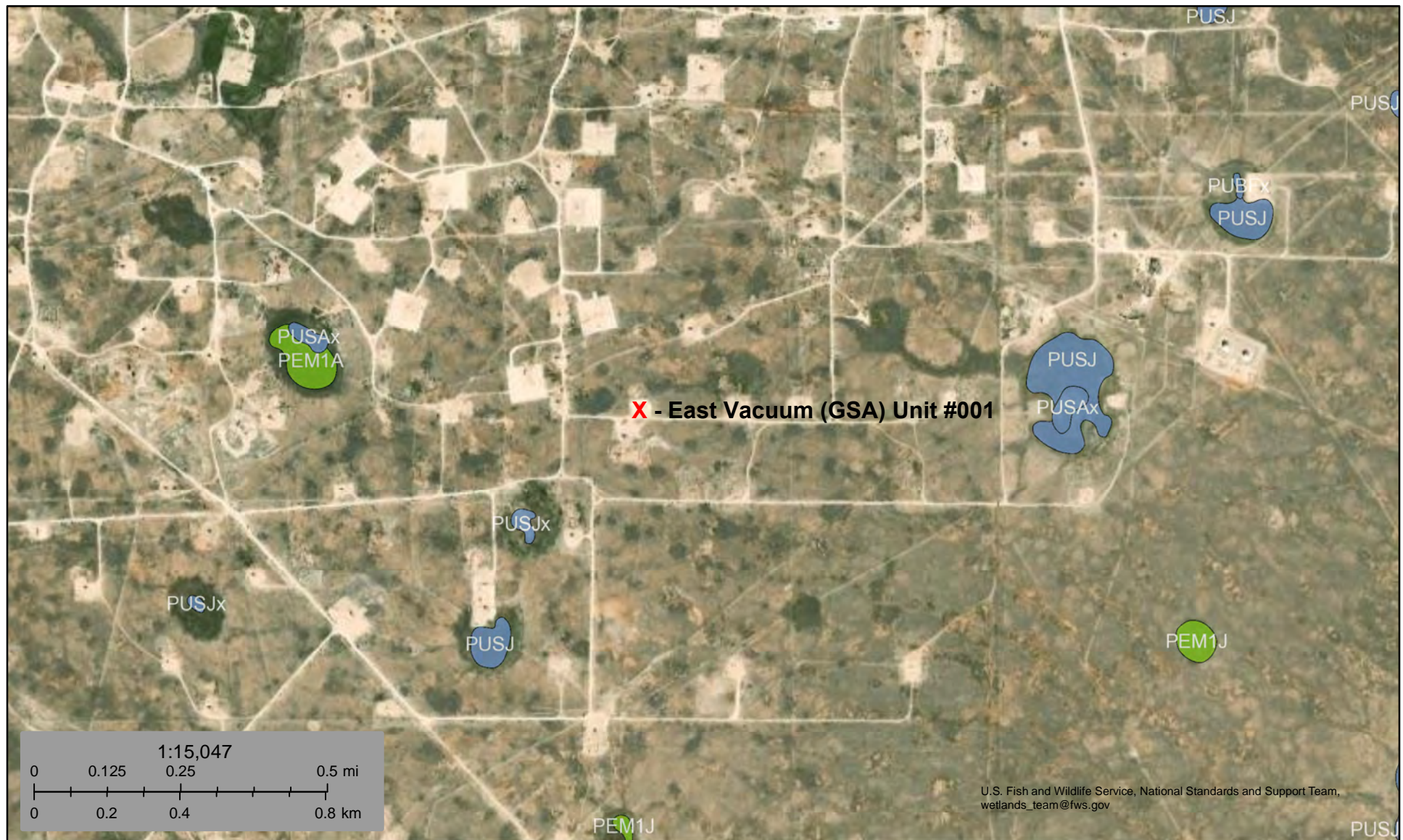


1 mi





## Wetlands Map



April 7, 2025

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

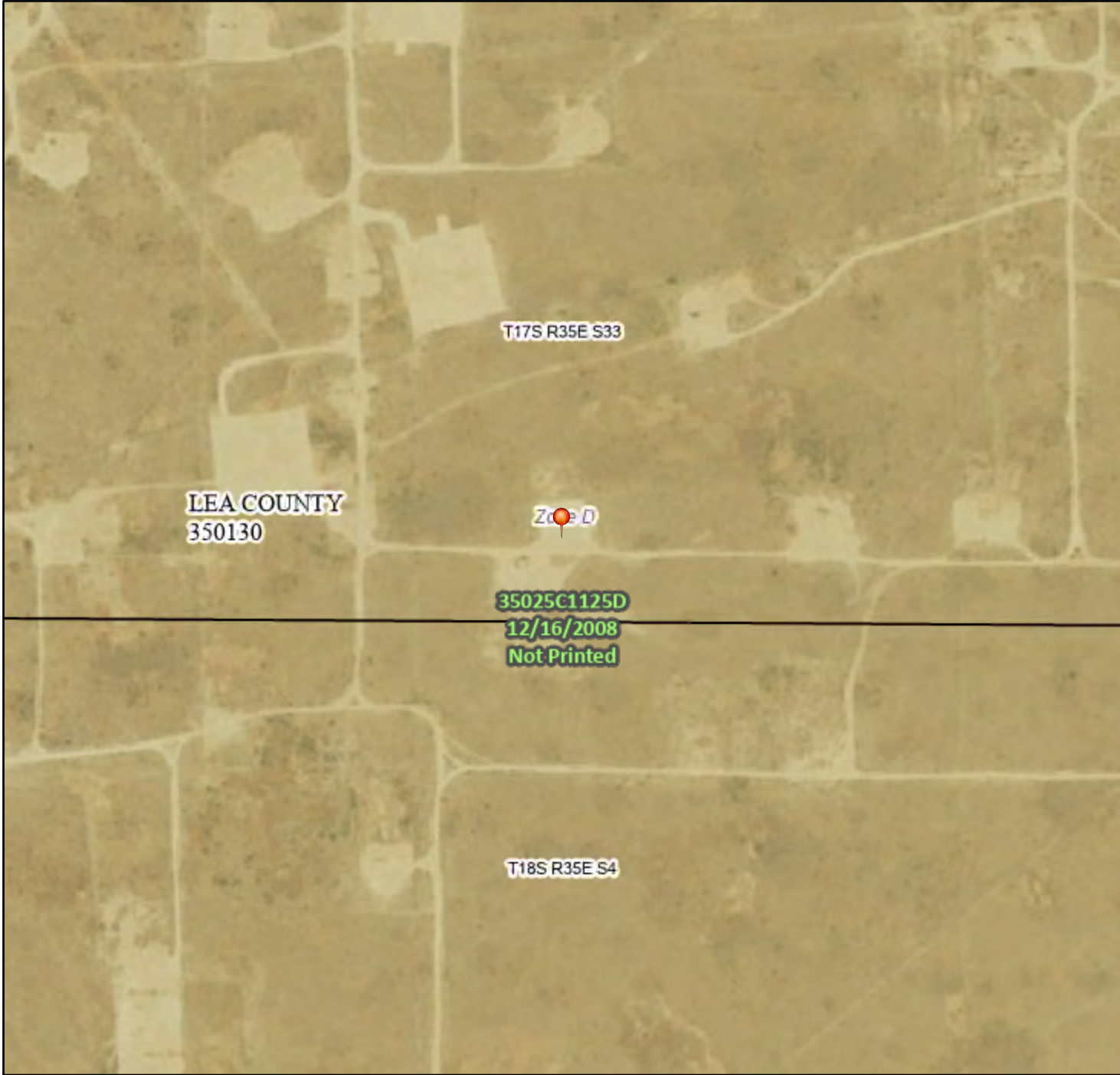
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



# National Flood Hazard Layer FIRMette



103°28'5"W 32°47'20"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°27'28"W 32°46'50"N

## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) 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 4/7/2025 at 10:51 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.



## ***Appendix C***

### **Soil Surveys**

### **Soil Map**

### **Geologic Unit Map**

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

4/7/2025  
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
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	1.1	100.0%
Totals for Area of Interest		1.1	100.0%



## East Vacuum (GSA) Unit #001

Maverick Permian  
API #30-025-26658  
Lea County, NM  
nOY1803031043  
Geologic Unit Map

### Legend

-  Ogallala Formation
-  Piedmont alluvial deposits

Buckeye

East Vacuum (GSA) Unit #001

Google Earth

Image © 2025 Airbus

Released to Imaging: 5/20/2025 11:16:29 AM

4 mi





## ***Appendix D***

### **Photographic Documentation**













## ***Appendix E***

### **Closure Letter Report**



April 29, 2020

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

**Subject: Closure Letter Report  
ConocoPhillips  
1RP-4946  
EVGSAU 3345-001 Release  
Lea County, New Mexico**

Mr. Billings:

On behalf of ConocoPhillips, Tetra Tech, Inc. (Tetra Tech) submits the following Closure Report for review. ConocoPhillips East Vacuum Grayburg San Andres Unit (EVGSAU) 3345-001 well (Site) is located approximately 3 miles southeast of Buckeye, New Mexico at Unit Letter N, Section 33, Township 17 South and Range 35 East in Lea County. (Figure 1). The release occurred on the well pad at approximately 32.784902°, -103.462821°.

## BACKGROUND

According to the State of New Mexico C-141 Initial Report (Attachment A), Operations discovered a leak that resulted in 5 barrels of oil released with 1.5 barrels of oil recovered. The Multi-Skill Operator (MSO) found a broken offside casing nipple. MSO isolated the flowline and repairs were completed. The total affected area included two reported release areas, both on the pad. Area 1 is described as 105' x 45' x 1" and Area 2 is described as 20' x 15' x 1". The incident was assigned remediation permit (RP) 1RP-4946. The incident ID is #NOY1803031043.

## SITE CHARACTERIZATION

A site characterization was performed and no watercourses, lakebeds, sinkholes, playa lakes, 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.

Based on data from the New Mexico Office of the State Engineer (NMOSE), there are seven water wells located in Section 33, Township 17 South, Range 35 East. The average depth to groundwater is 70 feet. The groundwater data and karst map are shown in Attachment B.

A risk-based evaluation was performed for the Site in accordance with the NMOCD guidelines to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil. Based on the site characterization, the RRALs for the Site are as follows:

**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  
April 29, 2020

Constituent	RRAL
Chloride (0 – 4 ft bgs)	600 mg/kg
Chloride (>4 ft bgs)	20,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
GRO+DRO	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

## INITIAL RESPONSE

In accordance with 19.15.29.8. B. (4) NMAC that states “the responsible party may commence remediation immediately after discovery of a release”, ConocoPhillips elected to begin remediation of the impacted area in January 2019. ConocoPhillips personnel provided the release footprint as show in Figure 1. The footprint of the release on the pad was excavated to depths of 2-3 feet below grade to remove the visually impacted soils. Time-stamped photographs of the remediated site prior to backfill are included within Attachment D. These photographs have digital photographic documentation of the site location. The remediation extents are shown on Figure 2. The excavated soil was taken to an NMOCD approved facility for disposal. The excavated area was backfilled with clean soil.

## VISUAL SITE INSPECTION

At the request of COP, on March 10, 2020 Tetra Tech personnel conducted a visual Site Inspection assessment at the former release area to evaluate current conditions at the Site. The formerly impacted area was identified from the description in the C-141 (and correspondence with ConocoPhillips. Photographic documentation from the visual assessment (with stamped GPS coordinates) is included within Attachment D. A list of field observations describing the Site follow:

- No evidence of staining was noted at the point of release or on the surrounding caliche pad.

## CONCLUSION

Based on the documented remediation work performed at the site and the recent visual inspection, COP requests 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).

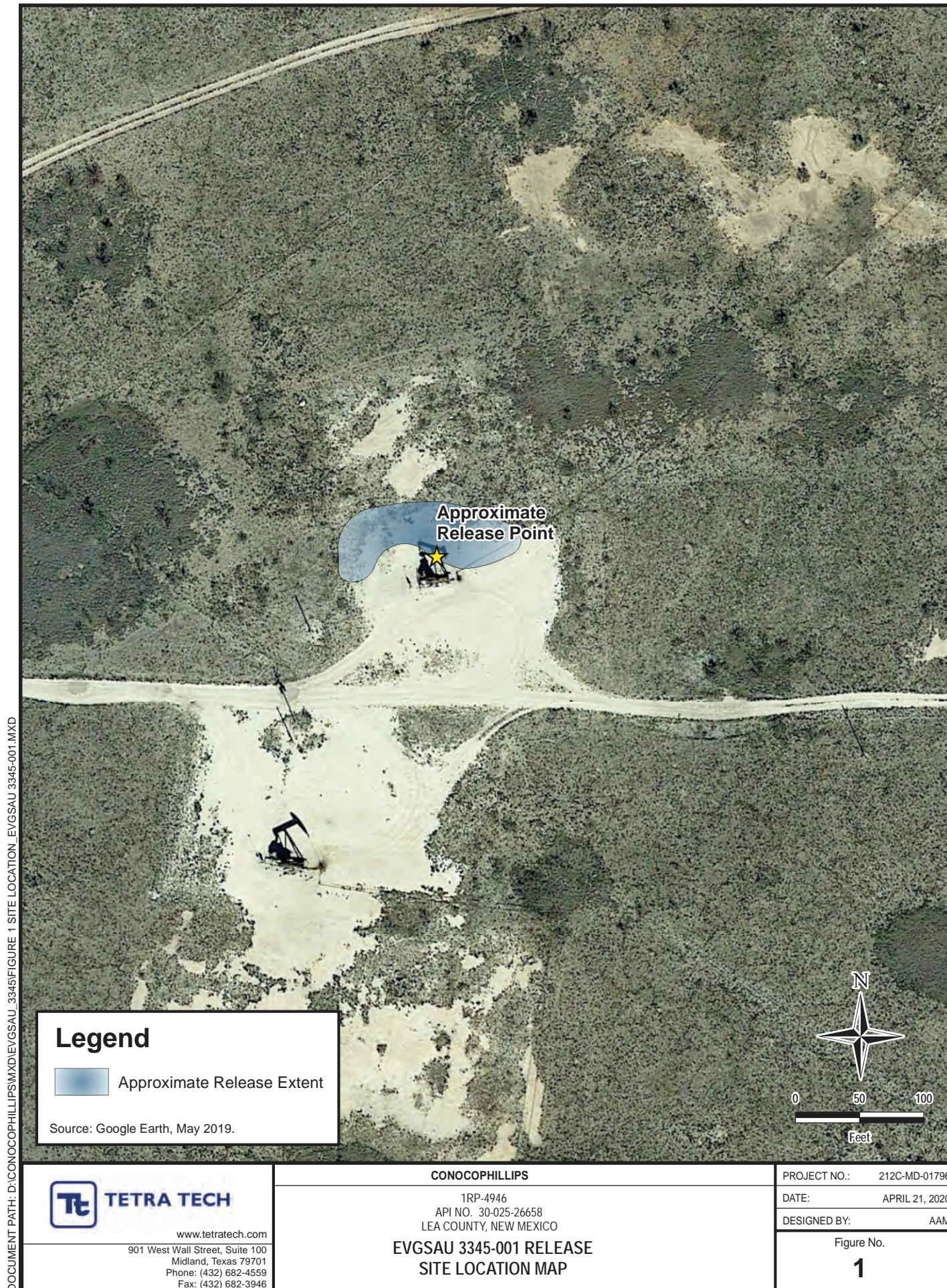
Sincerely,



Christian M. Llull  
Project Manager  
Tetra Tech, Inc.

## **FIGURES**











## **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>Cullen Rosine</b>
Address: <b>29 Vacuum Complex Lane</b>	Telephone No. <b>575-391-3133</b>
Facility Name: <b>EVGSAU 3345-001</b>	Facility Type: <b>Producing Well</b>
Surface Owner: <b>State</b>	Mineral Owner: <b>State</b> API No. <b>30-025-26658</b>

### LOCATION OF RELEASE

Unit Letter <b>N</b>	Section <b>33</b>	Township <b>17S</b>	Range <b>35E</b>	Feet from the	North/South Line	Feet from the	East/West Line	County <b>Lea</b>
-------------------------	----------------------	------------------------	---------------------	---------------	------------------	---------------	----------------	----------------------

Latitude 32.7849197 Longitude -103.4631271

### NATURE OF RELEASE

Type of Release: <b>Oil</b>	Volume of Release: <b>5 BBL</b>	Volume Recovered: <b>1.5 BBL</b>
Source of Release: <b>Offside casing nipple</b>	Date and Hour of Occurrence <b>1-27-2018 4:00 AM</b>	Date and Hour of Discovery <b>1-27-2018 12:30 PM</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Olivia Yu</b>	
By Whom? <b>Cullen Rosine</b>	Date and Hour: <b>1-29-2018 2:30 PM via email</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.*  <b>N/A</b>		

**RECEIVED**

**By Olivia Yu at 8:31 am, Jan 30, 2018**


Describe Cause of Problem and Remedial Action Taken. MSO discovered a leak that resulted in 5 BO released with 1.5 BO recovered. MSO found a broken offside casing nipple. MSO isolated the flowline and repairs were completed.

Describe Area Affected and Cleanup Action Taken. \*

Area 1 – 105' x 45 x 1"

Area 2 – 20' x 15' x 1"

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>Cullen Rosine</i>		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Cullen Rosine</b>		Approved by Environmental Specialist: 	
Title: <b>HSE Specialist</b>	Approval Date: <b>1/30/2018</b>	Expiration Date:	
E-mail Address: <b>Cullen.J.Rosine@conocophillips.com</b>	Conditions of Approval: <b>see attached directive</b>		Attached <input checked="" type="checkbox"/>
Date: <b>1-29-2018</b>	Phone: <b>575-391-3133</b>		

\* Attach Additional Sheets If Necessary

**1RP-4946**

**nOY1803031043**

**pOY1803031296**

Incident ID	
District RP	1RP-4946
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 Beauvais Title: Environmental Coordinator

Signature: Charles R. Beauvais II Date: 4/28/2020

email: charles.r.beauvais@conocophillips.com Telephone: 575-988-2043

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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: \_\_\_\_\_ Date: \_\_\_\_\_

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

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





# 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		Q Q Q							X	Y	Depth Well	Depth Water	Water Column	
	Sub-Code	basin County	64	16	4	Sec	Tws	Rng							
<a href="#">L 04578</a>	L	LE				33	17S	35E	643962	3629198*		126	60	66	
<a href="#">L 04586</a>	L	LE	3	3	4	33	17S	35E	644065	3628502*		125	50	75	
<a href="#">L 04633</a>	L	LE		2	4	33	17S	35E	644564	3629010*		130	65	65	
<a href="#">L 04829 S5</a>	L	LE		3	1	33	17S	35E	643347	3629400*		220	90	130	
<a href="#">L 04880</a>	L	LE		2	3	33	17S	35E	643757	3629002*		145	90	55	
<a href="#">L 05834</a>	R	L	LE	2	2	4	33	17S	35E	644663	3629109*		160	70	90
<a href="#">L 05834</a> POD5	L	LE	2	2	4	33	17S	35E	644663	3629109*		234	65	169	

Average Depth to Water: **70 feet**

Minimum Depth: **50 feet**

Maximum Depth: **90 feet**

Record Count: 7

**PLSS Search:**

**Section(s):** 33

**Township:** 17S

**Range:** 35E

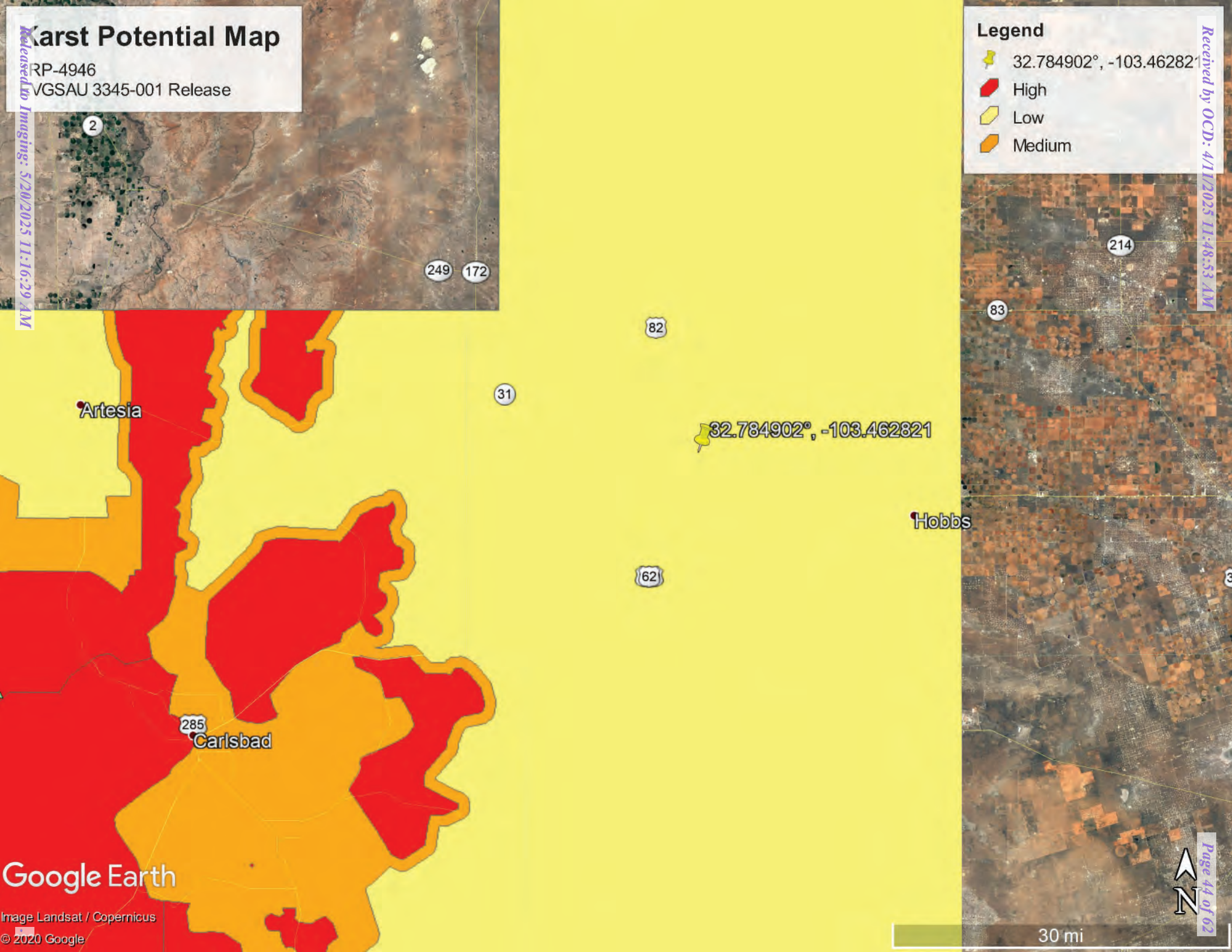
\*UTM location was derived from PLSS - see Help

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.

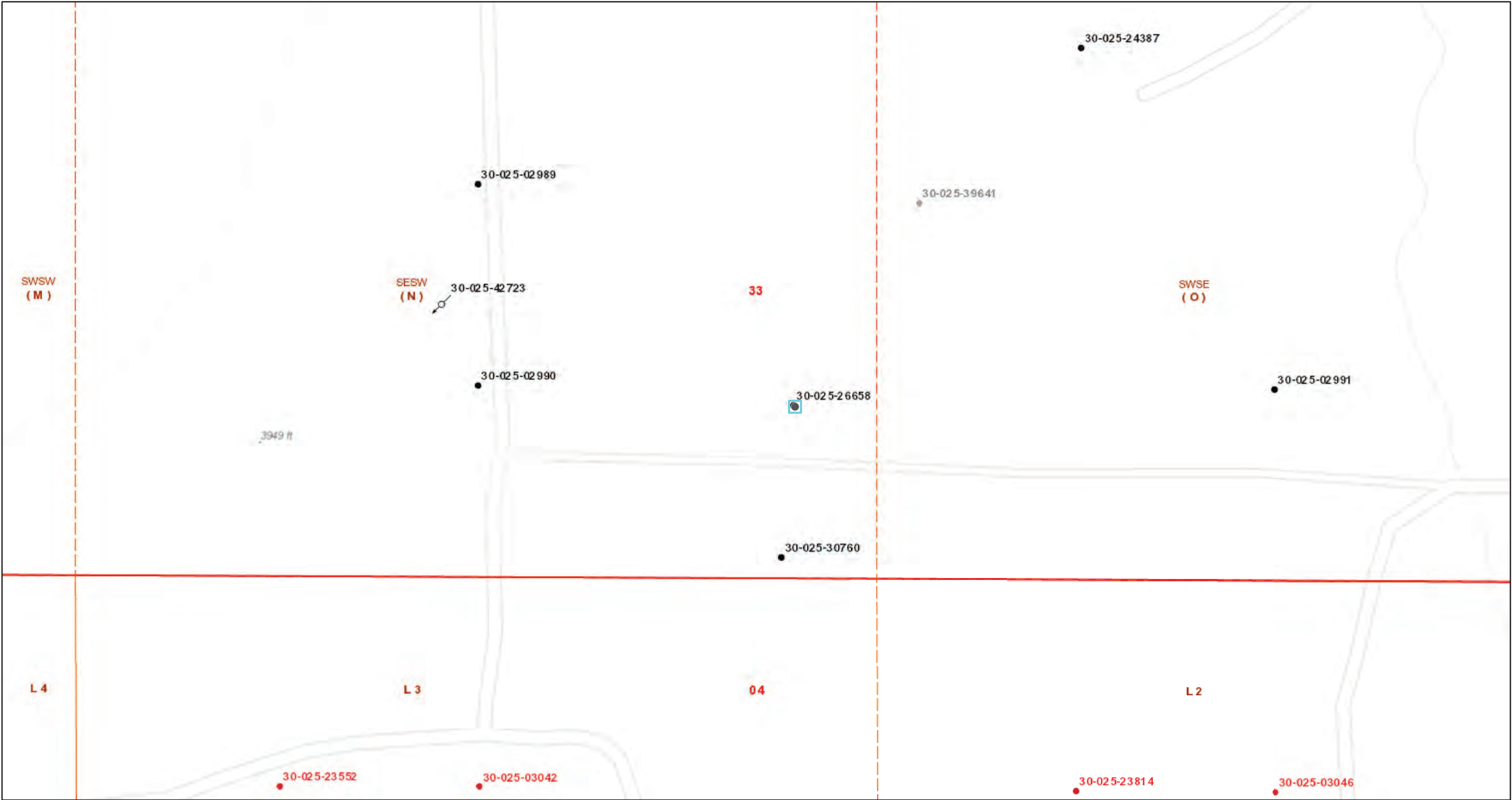
# Karst Potential Map

RP-4946  
VGSAU 3345-001 Release

Released to Imaging: 5/20/2025 11:16:29 AM

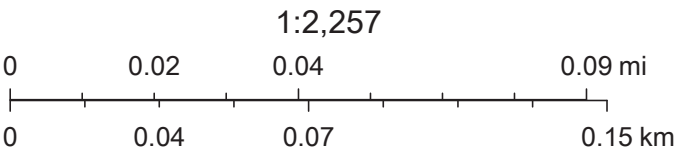


# EVGSAU 3345-001



4/20/2020, 2:12:33 PM

- |                     |                            |                                  |                                 |   |
|---------------------|----------------------------|----------------------------------|---------------------------------|---|
| Wells - Large Scale | CO2, Temporarily Abandoned | Injection, Active                | Oil, Cancelled                  | Salt Water Injection, New                   |
| undefined           | Gas, Active                | Injection, Cancelled             | Oil, New                        | Salt Water Injection, Plugged               |
| Miscellaneous       | Gas, Cancelled             | Injection, New                   | Oil, Plugged                    | Salt Water Injection, Temporarily Abandoned |
| CO2, Active         | Gas, New                   | Injection, Plugged               | Oil, Temporarily Abandoned      | Water, Active                               |
| CO2, Cancelled      | Gas, Plugged               | Injection, Temporarily Abandoned | Salt Water Injection, Active    | Water, Cancelled                            |
| CO2, New            | Gas, Temporarily Abandoned | Oil, Active                      | Salt Water Injection, Cancelled | Water, New                                  |
| CO2, Plugged        |                            |                                  |                                 |   |



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,



## **ATTACHMENT C**

### **Photographic Documentation**



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View northwest over excavated area in footprint of formerly impacted pad area.	1
	SITE NAME	EVGSAU 3345-001 Release	01/08/2019





TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View northeast over excavation in progress in footprint of formerly impacted pad area.	2
	SITE NAME	EVGSAU 3345-001 Release	01/08/2019





TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View of site signage with georeferenced information on photograph.	3
	SITE NAME	EVGSAU 3345-001 Release	01/08/2019





TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View south over excavated area in footprint of formerly impacted pad area.	4
	SITE NAME	EVGSAU 3345-001 Release	01/08/2019



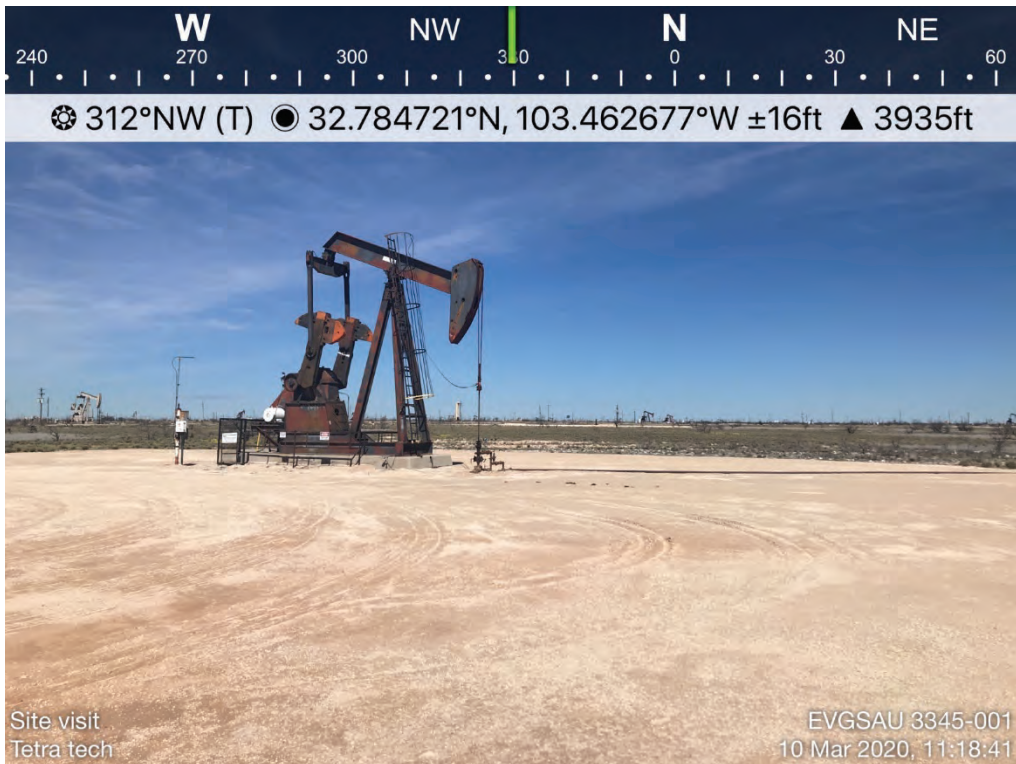


TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View southwest over excavation in progress, in footprint of impacted pad area.	5
	SITE NAME	EVGSAU 3345-001 Release	01/08/2019



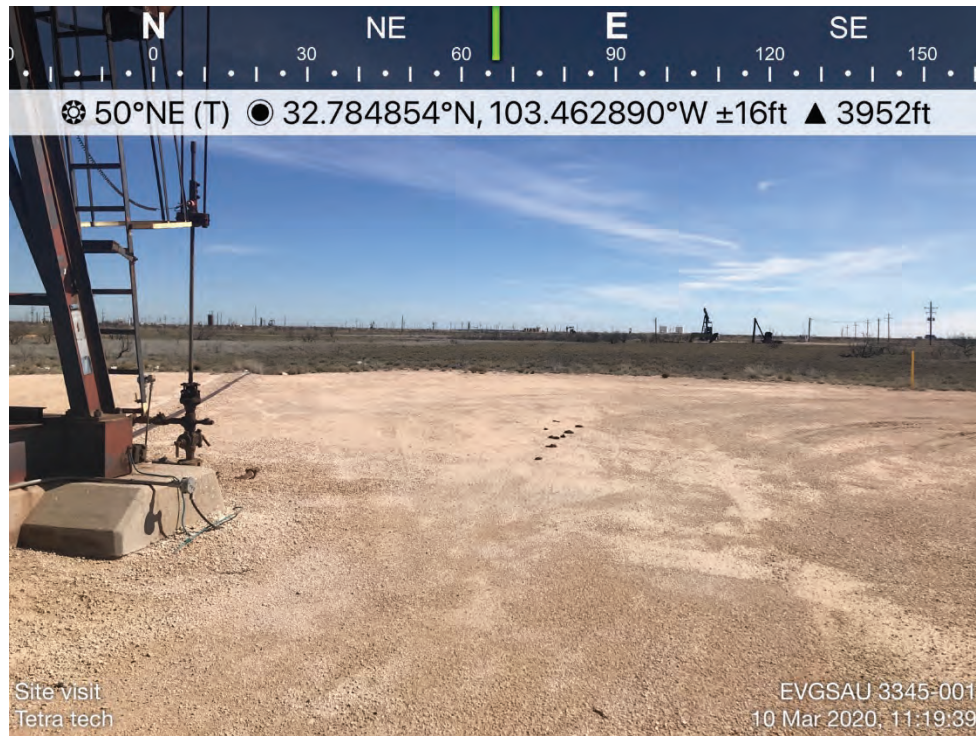


TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View of site signage with georeferenced information on photograph.	6
	SITE NAME	EVGSAU 3345-001 Release	03/10/2020

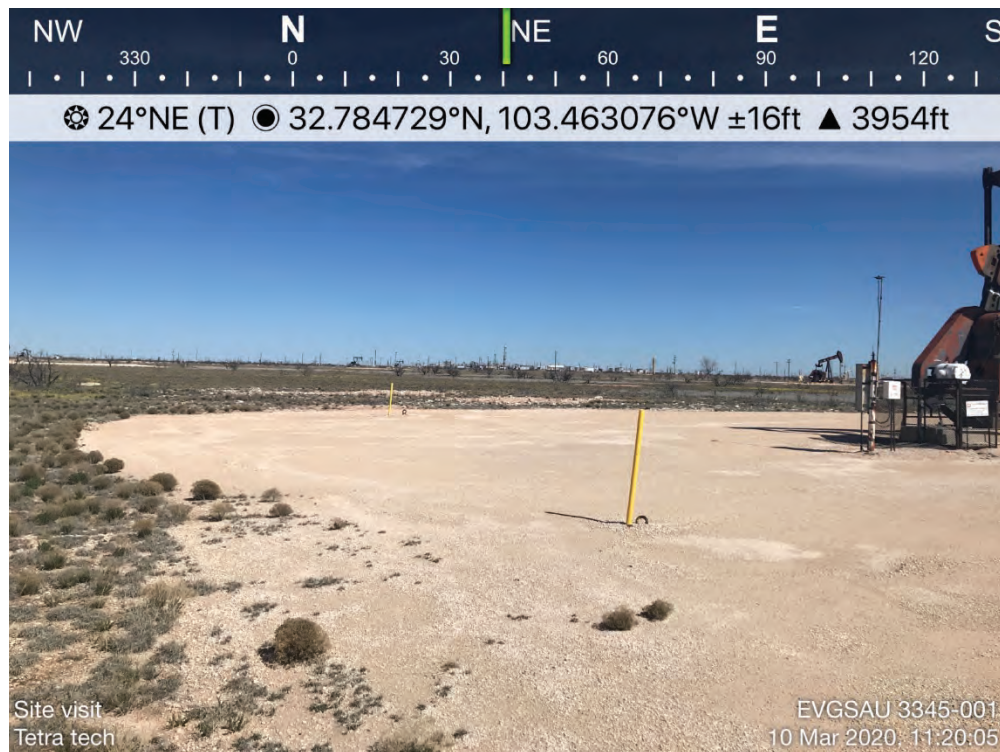


TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View north over well pad, with flowline visible from wellhead.	7
	SITE NAME	EVGSAU 3345-001 Release	03/10/2020





TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View east over well pad and former impacted area, with flowline visible from wellhead.	8
	SITE NAME	EVGSAU 3345-001 Release	03/10/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View east over well pad and former impacted area, with pumping unit visible.	9
	SITE NAME	EVGSAU 3345-001 Release	03/10/2020





TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View west over well pad and former impacted area, with pumping unit and flowline visible.	10
	SITE NAME	EVGSAU 3345-001 Release	03/10/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View north over well pad and former impacted area, with flowline visible.	11
	SITE NAME	EVGSAU 3345-001 Release	03/10/2020





TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View west over well pad and former impacted area.	12
	SITE NAME	EVGSAU 3345-001 Release	03/10/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01796	DESCRIPTION	View of well head (approximate release point).	13
	SITE NAME	EVGSAU 3345-001 Release	03/10/2020



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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS

Action 451151

**QUESTIONS**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 451151
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nOY1803031043
Incident Name	NOY1803031043 EAST VACUUM (GSA) UNIT #001 @ 30-025-26658
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-26658] EAST VACUUM (GSA) UNIT #001

**Location of Release Source**

Please answer all the questions in this group.

Site Name	EAST VACUUM (GSA) UNIT #001
Date Release Discovered	01/27/2018
Surface Owner	State

**Incident Details**

Please answer all the questions in this group.

Incident Type	Oil 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: 5 BBL   Recovered: 1 BBL   Lost: 4 BBL.
Produced Water Released (bbls) Details	Not answered.
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.

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 451151

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 451151
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>More info needed to determine if this will be treated as a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	<b>No</b>
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

**Initial Response**

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

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

*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: 07/17/2024
--	--



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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 451151

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 451151
	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 51 and 75 (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 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	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)	32
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	07/01/2025
On what date will (or did) the final sampling or liner inspection occur	07/15/2025
On what date will (or was) the remediation complete(d)	07/31/2025
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	5182
What is the estimated volume (in cubic yards) that will be remediated	768
<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>	

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 4

Action 451151

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 451151
	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: 04/11/2025
<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>	



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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 451151

QUESTIONS (continued)

Operator:  Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:  331199
	Action Number:  451151
	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

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

General Information  
Phone: (505) 629-6116

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

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

QUESTIONS, Page 6

Action 451151

**QUESTIONS (continued)**

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 451151
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	354047
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/15/2024
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
--	----



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

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 451151

## CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 451151
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

## CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	The Proposed Sampling and Remediation Work Plan is approved to include the following conditions of approval. 1. All delineation samples to be collected off-pad, and in pasture, must be delineated to the most stringent standards of table 1. of 19.15.29.12 NMAC to a minimum of four (4) feet. 2. The variance request is not approved as confirmation samples must consist of five-point composite samples for side-wall and floor samples to demonstrate contamination levels after excavation of no more than 200 sq. ft. pursuant to 19.15.29.12.D.(1)(c) NMAC.	5/20/2025