

EAST VACUUM (GSA) UNIT #006 nGRL0916233108

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

Proposed Sampling and Remediation Work Plan

May 14, 2025



Attn: NMOCD District 1

1625 N French Dr. Hobbs, NM 88240

Re: Proposed Sampling and Remediation Work Plan

NMOCD Incident Number: nGRL0916233108

East Vacuum (GSA) Unit #006 API #30-025-26390

Unit D, Section 34, Township 17S, Range 35E 166 FNL 1155 FWL Lea County, NM

GPS Coordinates: Latitude 32.7981606 Longitude -103.4503326 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 drilling mud/fluid release that occurred at the East Vacuum (GSAS) Unit #006 (Site). This incident was assigned Incident ID nGRL0916233108 by the New Mexico Oil Conservation Division (NMOCD).

Release Information - nGRL0916233108

The initial Form C-141 was submitted on June 5, 2009 (Appendix A) and stated that "Well work being done, 5/27/2009 well was shut in over night with 14# mud on back side 5.5 casing failure resulted in surface casing 135/8 over pressure and it too failed. Resulting in release to ground of brine and water based mud. Affected area consisted of 130'x265'x.75" calculated volume of 23.53bbls. On Monday 6-01-2009 an additional 17bbls was picked up from location resulting in release volume of 41 bbls. Spill site will be delineated and remediated in accordance with NMOCD guidelines." This initial Form C-141 was approved by the NMOCD on June 8, 2009.

Site Characterization

This Site is in Lea County, NM, approximately eleven (11) miles southwest of Lovington, NM. The wellhead and release area are in Unit D, Section 34, Township 17S, Range 35E, 32.7981606 degrees latitude and -103.4503326 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 for this soil type 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 26.98 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 70 feet below grade surface (bgs). This information is recorded by L-13479-POD2 which is situated approximately 0.23 miles away from the Site. This information is from 2014. The United States Geological Survey (USGS) offers the site USGS 324734103264601 17S.35E.34.114223 which shows depth to the nearest groundwater is 63 feet bgs. The latest gauge of this site was conducted in 1996, and it is located approximately 0.12 miles from the Site.

The nearest surface water feature is an Unnamed Pond, and it is located approximately 3.26 miles to the east. The U.S. Fish and Wildlife Service National Wetlands Inventory shows the nearest wetland to be a Freshwater Pond approximately 0.25 miles east. 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 at the Site for planned remediation activities. 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 2, 2020 at the release area to evaluate current conditions at the Site. The formerly impacted area was identified from the description in the C-141. Photographic documentation from the visual Site inspection is included as Attachment C. A list of observations made during the records review and the visual Site inspection follow:

- Review of available aerial imagery revealed no evidence of impact in the reported release location.
- No surficial staining was noted in the reported release area footprint during the June 2020 visual Site inspection."

On September 21, 2020, ConocoPhillips submitted a Closure Letter Report requesting closure approval of this incident. The NMOCD denied this report on April 17, 2023. This documentation can be referenced in Appendix E.

Proposed Sampling & Remediation Activities

In response to the previously denied report, Maverick would like to propose the following:

- The area of concern measures approximately 17,753 square feet and is 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. Eighty-five (85) samples will be collected from 17 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 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 the pasture that are over the regulatory limits of the less than 50-foot 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.
- Sample results from the pad area that are over the regulatory limits of the 51-100-foot 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 in the pasture 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. Maverick will diligently remediate all contaminants found on the pad surface that have reported results being over the regulatory limits of the 51-100-foot depth to groundwater section of Table 1 19.15.29.12 NMAC. Chlorides should be no more than 10,000 mg/kg. TPH (GRO+DRO+ORO) should be no more than 2,500 mg/kg. GRO+DRO should be no more than 1,000 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. During this time, reclamation and revegetation activities of the pasture will commence. After all activities have been performed and documented, a final reclamation and revegetation 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 nGRL0916233108 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 – <u>Bryce.Wagoner@mavresources.com</u> – (928) 241-1862

Sapec-Eco, LLC – Tom Bynum – <u>tombynum@sapec-eco.com</u> – (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:

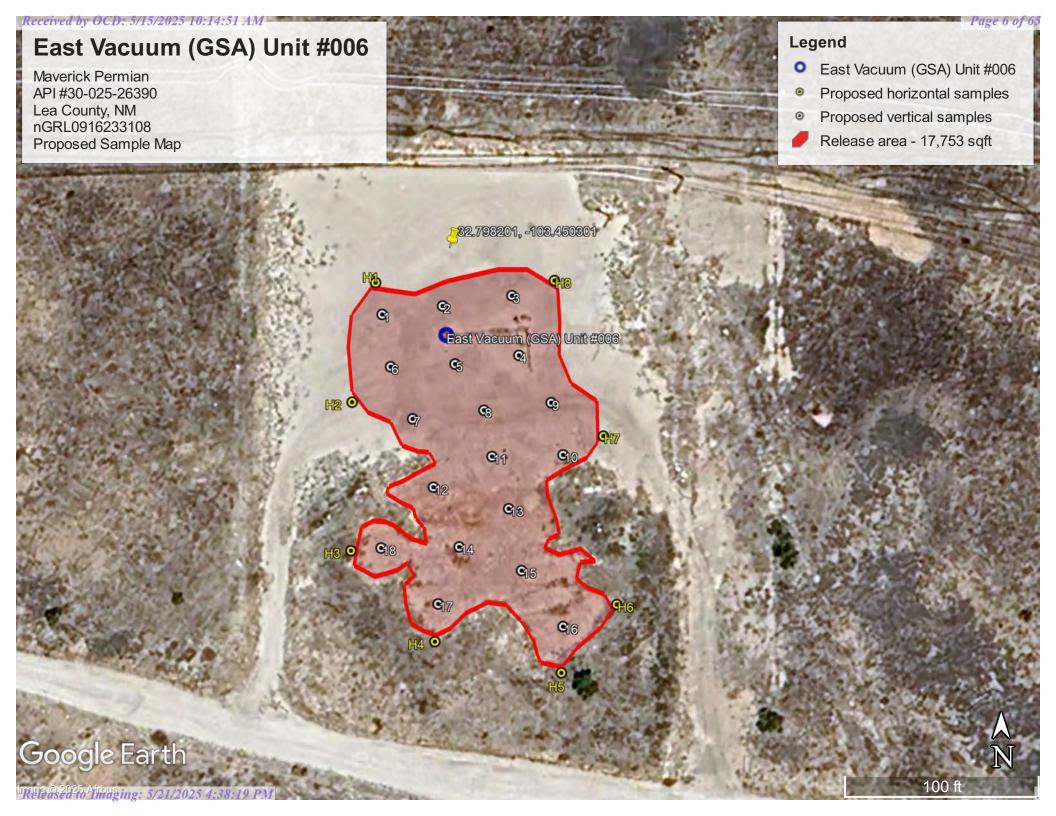
Proposed Sample Map

Special Status Plant/Wildlife Map

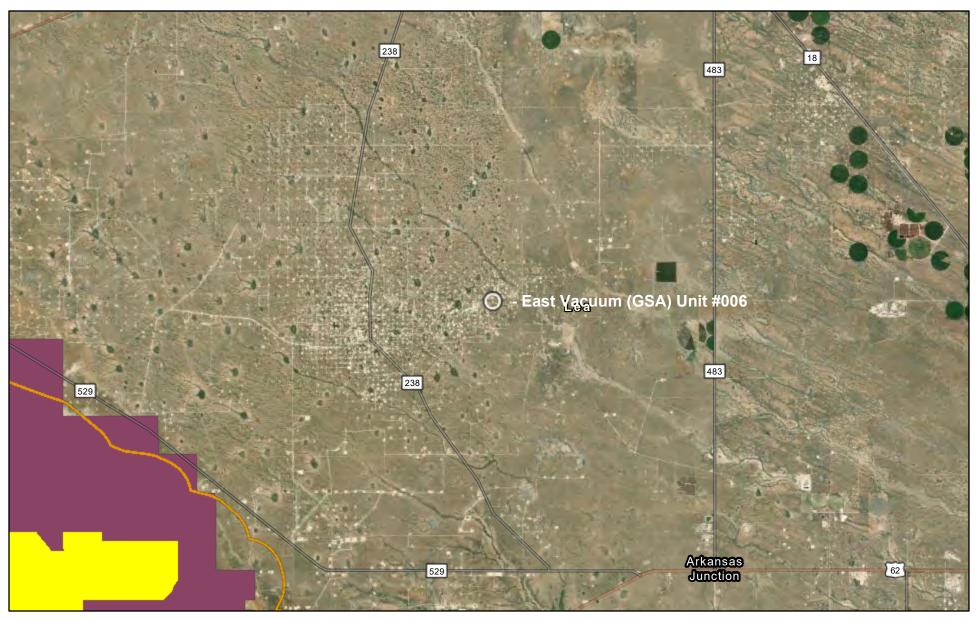
Karst Map

Topographic Map

Location Map



Special Status Plant/Wildlife Map



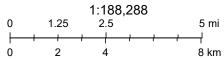


Dunes Sage Brush Lizard Habitat
Lesser Prairie Chicken Habitat
Habitat Evaluation Area

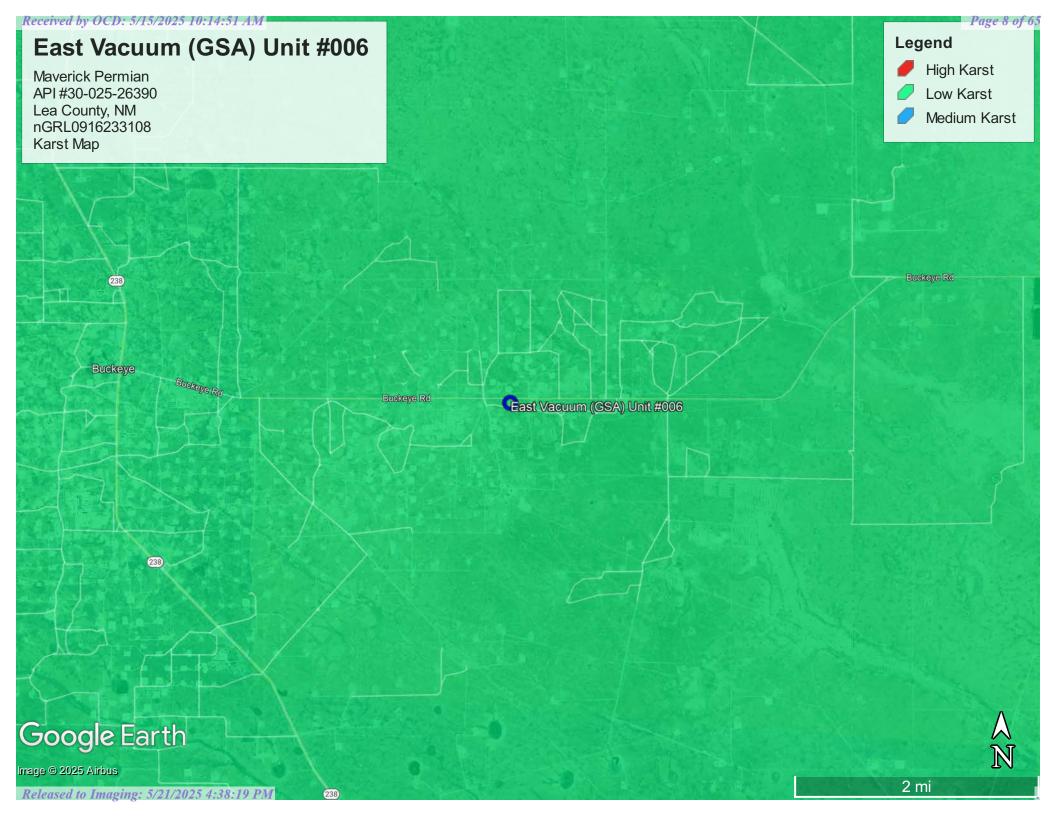
Isolated Population Area

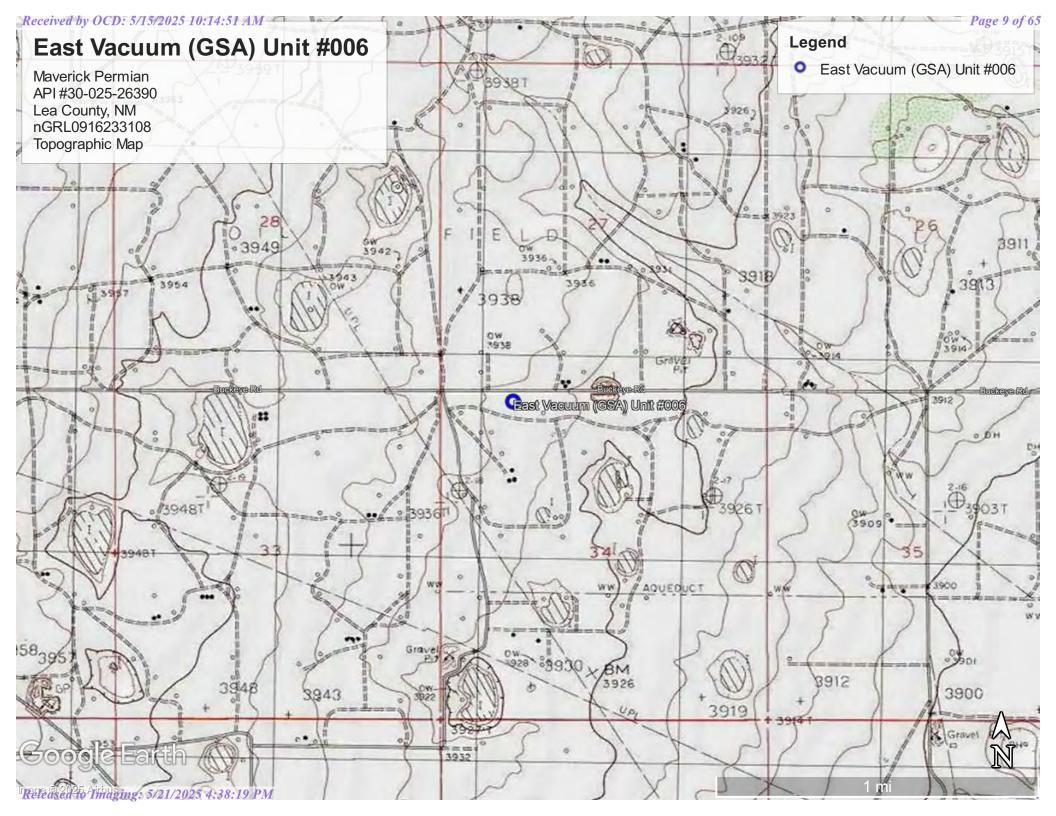
World Imagery
Low Resolution 15m Imagery
High Resolution 60cm Imagery
High Resolution 30cm Imagery

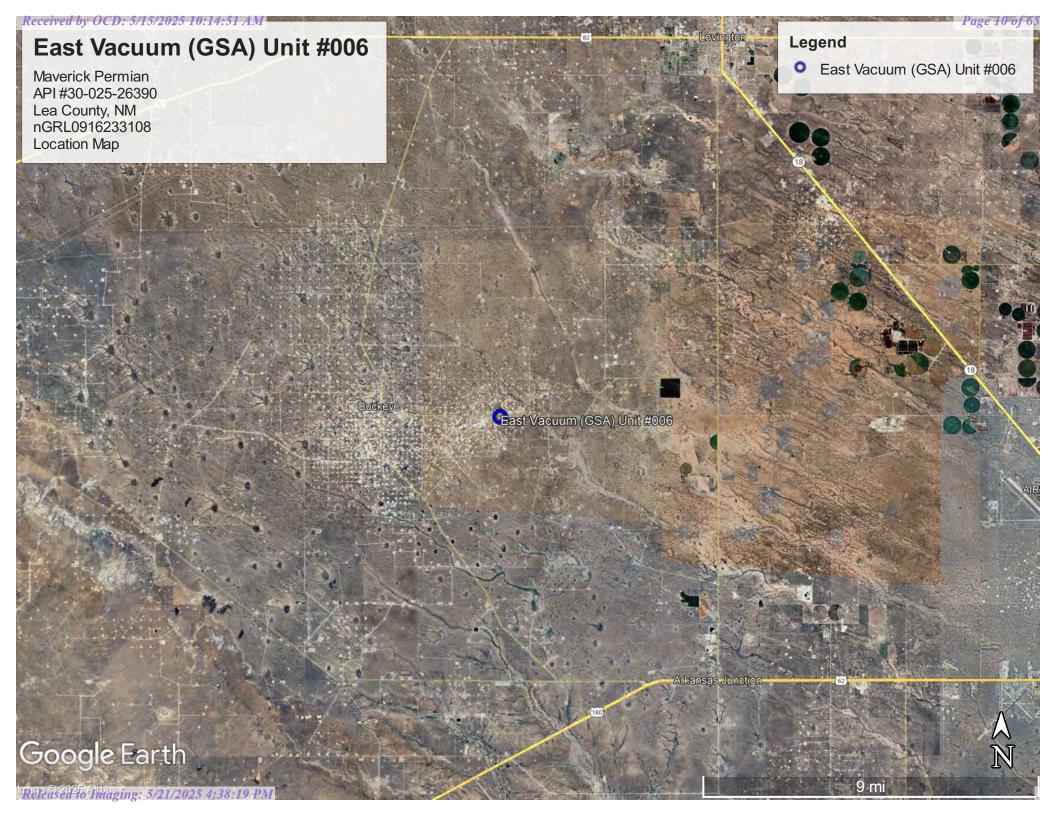
Citations
38m Resolution Metadata



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









Appendix A

Initial Form C-141

side of form

District I
1625 N. French Dr., Hobbs, NM 88240 RECEIVE State of New Mexico
District II
New Mexico
Minerals and Natural Resources 1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410

District III
1000 Rio Brazos Road, Aztec, NM 87410

District III
1000 Rio Brazos Road, Aztec, NM 87410

Form C-141 Revised October 10, 2003

with Rule 116 on back

Submit 2 Copies to appropriate District Office in accordance

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87508 DBBSOCD 1220 South St. Francis Dr.

Release Notification and Corrective Action

					C	PERAT	OR	Х	☐ Initia	al Report		Final Report
Name of Co	mpany Co	nocoPhillips	ıy		Contact Ro	n Robinson						
Address 330	0 North A	St. Bldg 6,	Tx. 79705-5406			No. 575-390-492						
Facility Nan	ne EVGSA	AU 3456-000]]	Facility Typ	e: CO2 Injection	n well					
Surface Own	ner: State	Of New Me	kico	Mineral O	wner: S	State Of Nev	w Mexico		Lease N	lo. 30-025-	26390	00
	LOCATION OF RELEASE											
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the		lest Line	County		
D	34	∴ 17-S	35E	166'	FNL		1155'	FWL		LEA		
	Longitude Longitude											
					URE	OF REL						
				ater base mud			Release:41.53 bb	ls		Recovered: 1		
Source of Rel	lease:5.5 pr	oduction casii	ng failure			Date and H				Hour of Disc		
Was Immedia	te Notice (Given?				If YES, To	25/27/2009 Unkno Whom?	own	3/28/2009	0@ 0630hr M	191	****
was minicula	iic ronce (Yes X	No 🔲 Not Req	uired	11 125, 10	whom:					
By Whom?						Date and H	lour					
Was a Watero	course Reac					If YES, Vo	lume Impacting t	he Wate	rcourse.			
		Ш	Yes X	No								
If a Watercou	rse was Im	pacted, Descr	ibe Fully.*									
Describe Cause of Problem and Remedial Action Taken.* Well work being done, 5/27/2009 well was shut in over night with 14# mud on back side 5.5 casing failure resulted in surface casing 135/8 over pressure and it too failed. Resulting in release to ground of brine and water based mud.												
Describe Area Affected and Cleanup Action Taken.* Affected area consisted of 130'x265'x.75" calculated volume of 23.53bbls. On Monday 6-01-2009 an additional 17bbls was picked up from location resulting in release volume of 41bbls. Spill site will be delineated and remediated in accordance with NMOCD guidelines.												
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.												
OIL CONSERVATION DIVISION												
Printed Name: Ron Robinson ENV ENC Approved by District Supe						ENV ENGR District Supervis e	ar: .	~ DO	. Pri			
						\nmmov-1 D-4	ner la alea		00	of golson	Q.	
Title: Projects					ı		e:06 08 09			Date: 08	2110	۲۷
E-mail Addre				······································		Conditions of Approval: 50BMIT FINAL Attached C-141 BY 08/07/09.						
Date: 6-5	5-20°	19	Phone:	675- 390.49	23	- 17(16	1 Oploti	1 1		IRP-09.	-6-	2199
Attach Addit	ional Shee	ets If Necess								······································		



Appendix B

Water Surveys

Water-Related Maps

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Υ	Мар
	L 13479 POD2	NE	NE	NW	34	17S	35E	645479.6	3629941.3	

* UTM location was derived from PLSS - see Help

Driller License:	1458	Driller Company:	YELLOW JACKET DRLG. SERV. LLC		
Driller Name:	RICHARD LEE	BLANC			
Drill Start Date:	2013-10-04	Drill Finish Date:	2013-12-13	Plug Date:	
Log File Date:	2014-04-28	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	10
Casing Size:	2.05	Depth Well:	80	Depth Water:	70

Water Bearing Stratifications:

Тор	Bottom	Description
70	80	Sandstone/Gravel/Conglomerate

Casing Perforations:

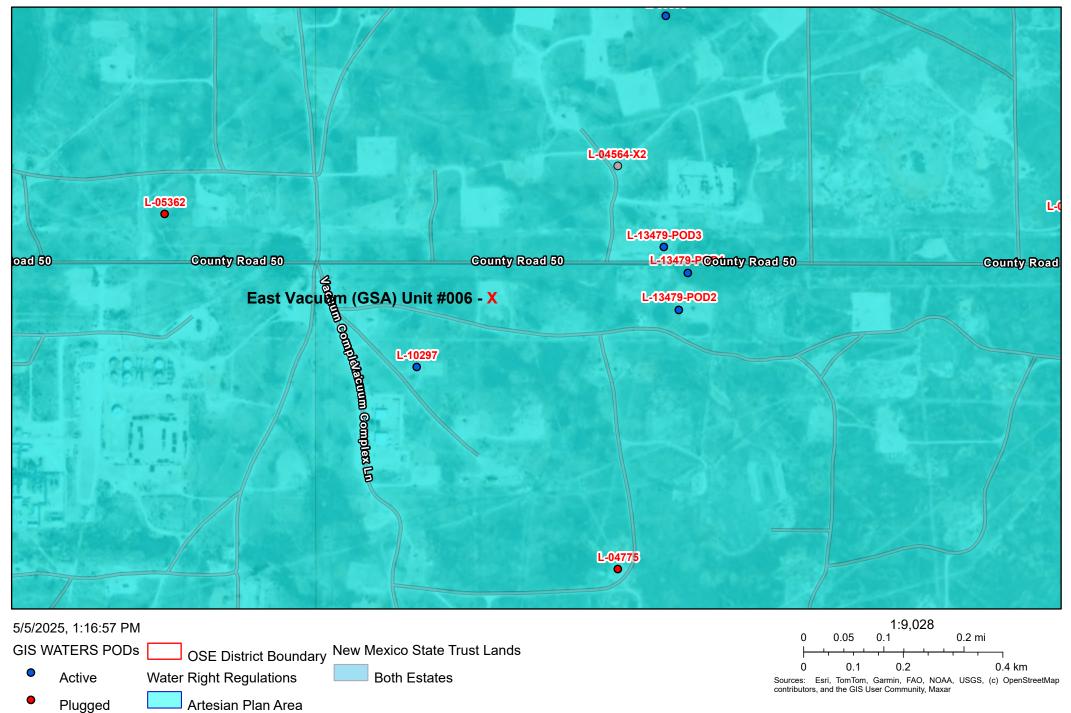
Тор	Bottom
65	80

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, or suitability for any particular purpose of the data.

5/5/25 12:17 PM MST Point of Diversion Summary

©2024 New Mexico Office of the State Engineer, All Rights Reserved. | <u>Disclaimer</u> | <u>Contact Us</u> | <u>Help</u> | <u>Home</u> |

OSE POD Location Map





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

Click to hideNews Bulletins

 Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

site no list =

• 324734103264601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

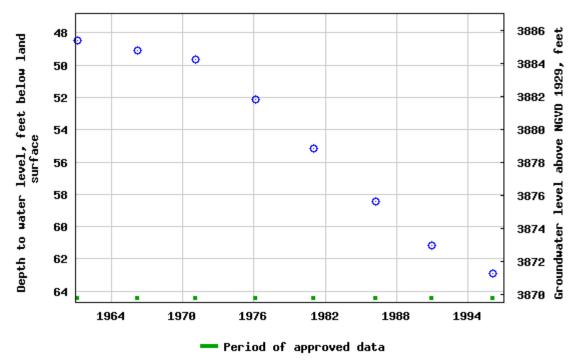
USGS 324734103264601 17S.35E.34.114223

Available data for this site	Groundwater:	Field measurements	∨ GO	
Lea County, New Mexico				
Hydrologic Unit Code 1208	30003			
Latitude 32°47'47", Longi	itude 103°2	6'59" NAD27		
Land-surface elevation 3,9	34.00 feet	above NGVD29		
This well is completed in t	he High Plai	ins aquifer (N100	HGHPLN) n	ational aquifer.
This well is completed in t	he Ogallala	Formation (1210)	GLL) local a	aquifer

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

USGS 324734103264601 175,35E,34,114223



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

Questions or Comments
Help
Data Tips
Explanation of terms
Subscribe for system changes

Accessibility FOIA Privacy Policies and Notices

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u>

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2025-05-05 14:20:36 EDT

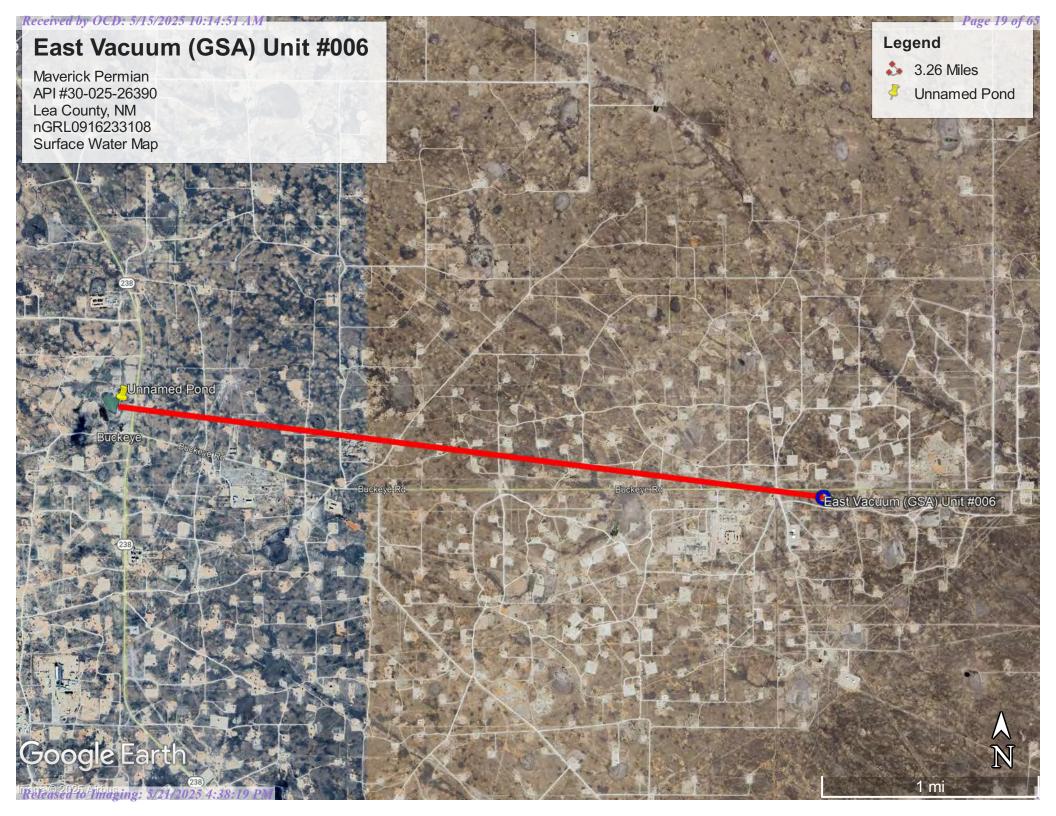
0.63 0.45 nadww02





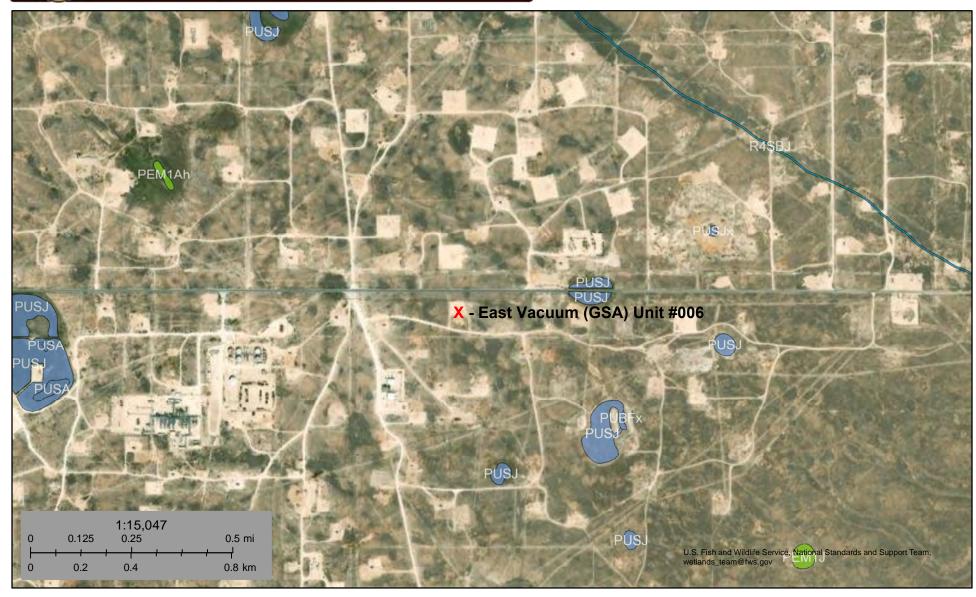
National Water Information System: Mapper







Wetlands Map



May 5, 2025

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Riverine

Other

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.

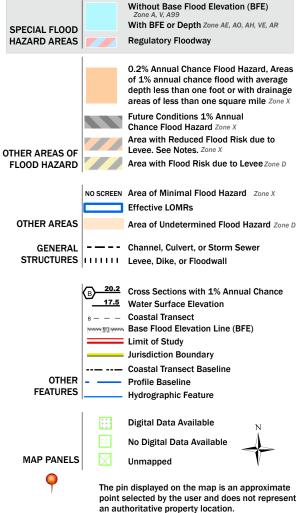
ORelease To Imaging: 5/21/2025 498:19 PM

National Flood Hazard Layer FIRMette



Legend

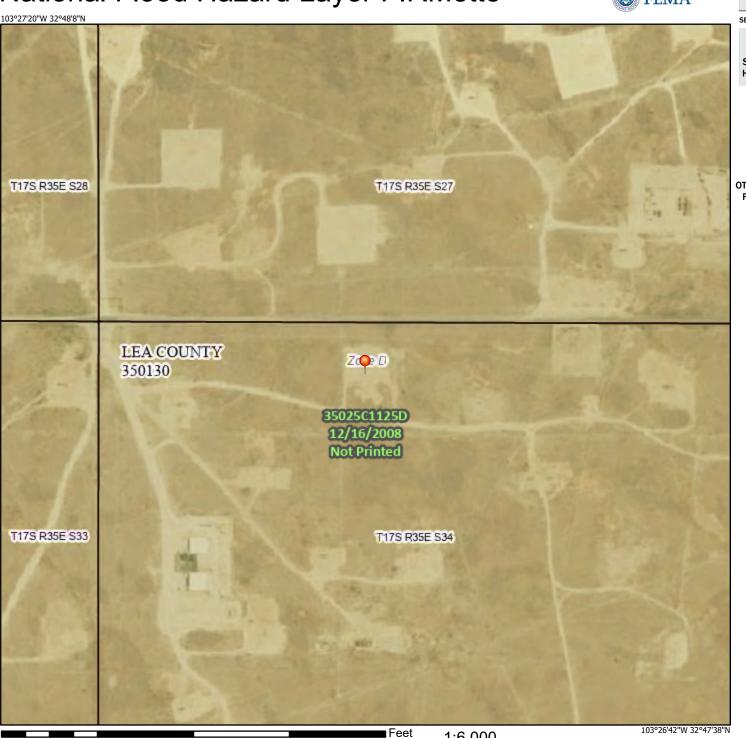
SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



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 5/5/2025 at 6:23 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.



2,000



Appendix C

Soil Surveys

Soil Map

Geologic Unit Map

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

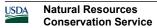
mmhos/cm)

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



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

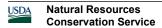
Percent of map unit: 12 percent

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



MAP LEGEND

â

0

Δ

Water Features

Transportation

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

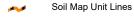
Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Candfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

△ Sinkhole

Sinkhole

Slide or Slip

Sodic Spot

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

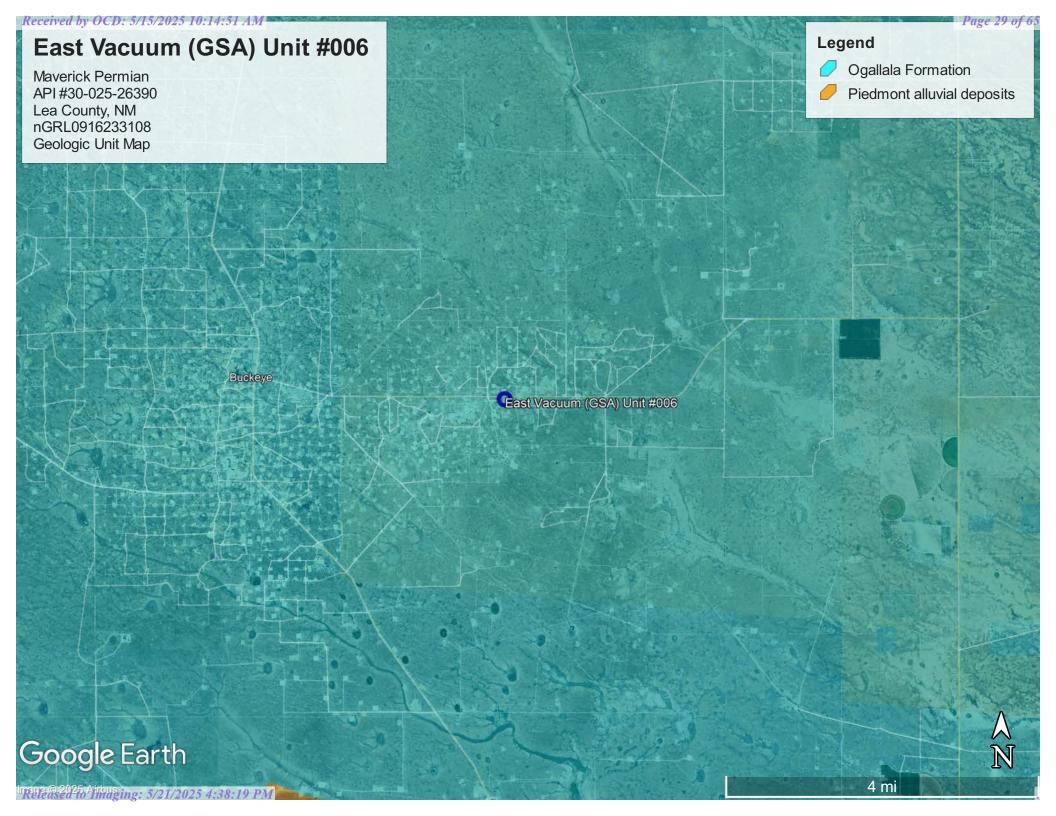
Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

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	2.2	100.0%
Totals for Area of Interest		2.2	100.0%





Appendix D

Photographic Documentation

Photographic Documentation Maverick Permian, LLC

East Vacuum (GSA) Unit #006 – nGRL0916233108













East Vacuum (GSA) Unit #006 – nGRL0916233108















Appendix E

Closure Letter Report



September 21, 2020

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

Subject: Closure Letter Report

ConocoPhillips

1RP-2199

EVGSAU 3456-006 Wellhead Release

PLSS Unit Letter D, Section 34, 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 East Vacuum Grayburg-San Andres Unit (EVGSAU) 3456-006 injection well (API No. 30-025-26390) is located approximately 3.25 miles east of Buckeye in Lea County, New Mexico (Figure 1). The well is located in the Public Land Survey System (PLSS) Unit Letter D, Section 34, Township 17 South, and Range 35 East. The coordinates of the release area (Site) are 32.798160°, -103.45031°.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Attachment A), on May 27, 2009 a release of well control fluids occurred at the EVGSAU 3456-006 injection well due to a 5.5-inch production casing failure. The C-141 states that the release consisted of 41.53 barrels (bbls) of 10# brine/water-based mud (in another section in the C-141 the fluid was described as 14# mud). The release affected a 130-foot (ft) by 265-ft by 3/4-inch area. A vacuum truck recovered approximately 16 bbls of the released fluids during initial response activities. The C-141 was submitted to the New Mexico Oil Conservation District (NMOCD) on June 5, 2009 and approved by the division on June 8, 2009. The release was assigned the Remediation Permit (RP) number 1RP-2199.

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 (7) water wells located within an 800-meter (approximately ½-mile) radius of the release location. The average depth to groundwater is 70 ft. 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

Bradford Billings NMOCD September 21, 2020

petroleum hydrocarbons (TPH), and chlorides in soil. Based on the depth to groundwater at 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 (0 4 ft bgs);
- TPH (GRO + DRO): 1,000 mg/kg;
- TPH (GRO + DRO + ORO): 2,500 mg/kg;
- Chloride: 600 mg/kg (0 4 ft bgs);
- Chloride: 10,000 mg/kg (>4 ft bgs).

VISUAL SITE INSPECTION SUMMARY

At the request of ConocoPhillips, Tetra Tech personnel conducted a records review and a visual Site inspection on June 2, 2020 at the release area to evaluate current conditions at the Site. The formerly impacted area was identified from the description in the C-141. Photographic documentation from the visual Site inspection is included as Attachment C. A list of observations made during the records review and the visual Site inspection follow:

- Review of available aerial imagery revealed no evidence of impact in the reported release location.
- No surficial staining was noted in the reported release area footprint during the June 2020 visual Site inspection.

CONCLUSION

Based on a review of available aerial imagery and the June 2020 visual Site inspection, no existing evidence of impact was observed in the vicinity of the release point. Therefore, ConocoPhillips 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@tetratech.com.

Sincerely,

Christian M. Llull Project Manager

Tetra Tech, Inc.

FIGURES



ATTACHMENT A C-141 Forms

side of form

District I
1625 N. French Dr., Hobbs, NM 88240 RECEIVED State of New Mexico
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410

1220 South St. Francis Dr.

Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87500BBSOCD 1220 South St. Francis Dr.

Santa Fe, NM 87505

Release Notification and Corrective Action

			IXCIC	ase Mount		OPERAT		X	☐ Initis	al Report		Final Report		
Name of Co	mnany Co	nocoPhillips	s Compar		1	Contact Ro		<u> </u>	minus	ii icepoit	<u> </u>	i mai report		
				Tx. 79705-5406			No. 575-390-492	23						
Facility Nan							e: CO2 Injection							
				136 16		0001 36								
Surface Own	ner: State	Of New Mex	XICO	Mineral O	wner:	er: State Of New Mexico Lease No. 30-025-2639000								
				LOCA	TIO	N OF REI	LEASE							
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/W						
D	34	∶17-S	35E	166'	FNL	1155' FWL LEA								
	L.	atitude10	3.450311	921207		Longitud	e le_32.7981601	052959)					
				NAT	URE	OF REL	EASE							
				vater base mud		Volume of	Release:41.53 bb	ls		Recovered: 16				
Source of Re	lease:5.5 pr	oduction casii	ng failure			Date and H				Hour of Disco				
Was Immedia	ta Nation (New mon					25/27/2009 Unkno	own	5/28/2009	@ 0630hr MS	<u>ST</u>			
was illilicula	ale Notice (Yes X	No Not Req	uired	If YES, To	WHOIII?							
By Whom?						Date and H	lour	······································						
Was a Water	course Read						lume Impacting t	he Water	course.					
			Yes X	□ No										
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	f										
and it too fail Describe Area Affected area	ed. Resulting Affected a consisted of	/27/2009 welling in release to and Cleanup April 130'x265'x	l was shut to ground of Action Tak 3.75" calcu	in over night with of brine and water	based i	mud. Is. On Monda	le 5.5 casing failu	re resulto	17bbls wa	ce casing 135/				
regulations al public health should their o	l operators or the enviruperations had nument. In a	are required to conment. The ave failed to a ddition, NMO	o report an acceptance adequately OCD accep	is true and compled/or file certain rese of a C-141 report investigate and retance of a C-141 r	lease r t by th media	notifications and ne NMOCD m te contaminati	nd perform correct arked as "Final Re on that pose a thre	tive action eport" do eat to gro	ons for rele ses not reli ound water	eases which m eve the operat s, surface wate	ay end or of l r, hum	langer iability an health		
	_						OIL CONS	SERV	ATION	DIVISION	1			
Signature:	200 L	20 c					Faill Cold S							
Printed Name		inson				Approved by District Supervisor: The flowing								
Title: Projects	S HSE Lead					Approval Date: 06 08 09 Expiration Date: 08 07						.9		
E mail Add		ingan (2			- 1					1	+1 =			
E-mail Addre	ss:ron.e.rot	onson@conoc					Approval: 506		HUNH	Attached [
Date: 6-5 Attach Addit		ts If Necess		675- 390-49	23	C-141 B	°/70/80 Y	7.		IRP-09-	6-2	2199		

Page 40 of 65

	- 180 100
Incident ID	
District RP	1RP-2199
Facility ID	
Application ID	

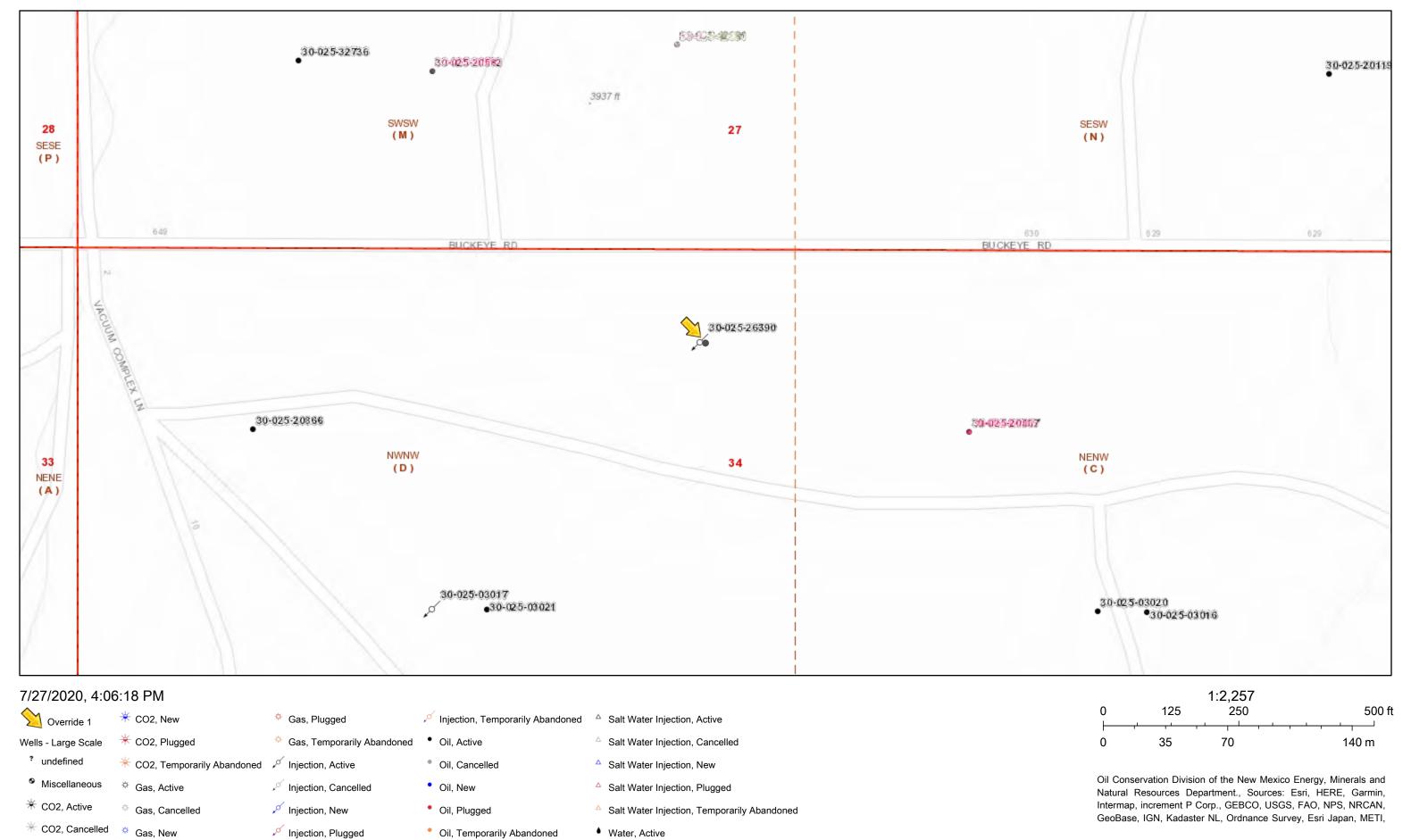
Closure

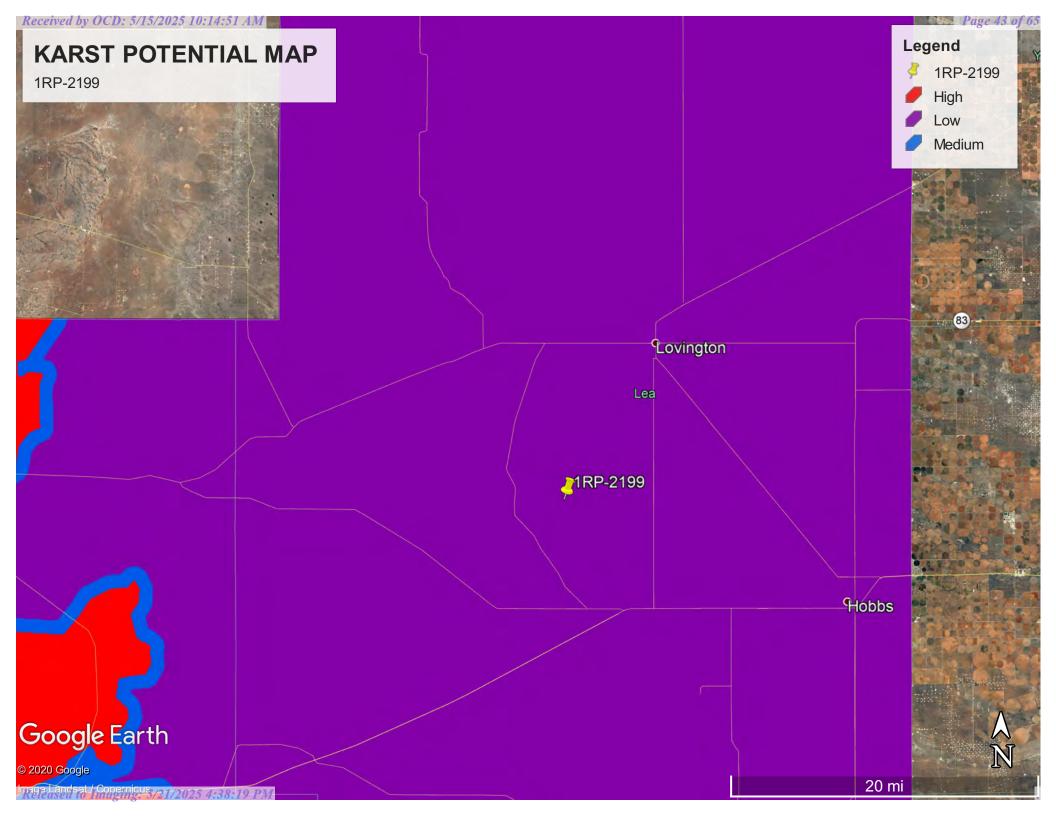
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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 in	tems must be included in the closure report.
✓ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially notitions that existed prior to the release or their final land use in
Printed Name: Charles Beauvais	Title: Environmental Coordinator
Signature: Charles R. Beauvais 19	Date: 09/21/2020
email: charles.r.beauvais@conocophillips.com	Telephone: 575-988-2043
OCD Only	
Received by: Jocelyn Harimon	Date:04/17/2023
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:closure not approved	Date: 04/17/2023
Printed Name: Jocelyn Harimon	Title:Environmental Specialist

ATTACHMENT B Site Characterization Data

1RP-2199







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 Sub-		Q	Q	Q								v	Vater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDo	epthWellDep	othWater C	olumn
<u>L 10297</u>		L	LE		1	1	34	17S	35E	644955	3629819*	213	150	42	108
L 04829 S2		L	LE		4	3	27	17S	35E	645352	3630227*	355	220	90	130
L 13479 POD3		L	LE	4	4	3	27	17S	35E	645448	3630066	357	76	70	6
L 13479 POD2		L	LE	2	2	1	34	17S	35E	645480	3629941	379	80	70	10
L 13479 POD1		L	LE	2	2	1	34	17S	35E	645495	3630015	395	80	70	10
<u>L 04775</u>		L	LE		4	1	34	17S	35E	645365	3629421*	612	133	68	65
<u>L 05362</u>		L	LE	3	4	4	28	17S	35E	644444	3630117*	673	140	80	60

Average Depth to Water:

70 feet

Minimum Depth:

42 feet

Maximum Depth:

90 feet

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 645102 **Northing (Y):** 3629974 **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.

9/16/20 2:39 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

ATTACHMENT C Photographic Documentation



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing northeast of well pad. Wellhead in background.	1
212C-MD-02152	SITE NAME	EVGSAU 3456-006 Wellhead Release	6/2/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing north of well head and pipeline on well pad.	2
	SITE NAME	EVGSAU 3456-006 Wellhead Release	6/2/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02152	DESCRIPTION	View facing east on the eastern end of the well pad area.	3
	SITE NAME	EVGSAU 3456-006 Wellhead Release	6/2/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View facing west on the well pad.	5
212C-MD-02152	SITE NAME	EVGSAU 3456-006 Wellhead Release	6/2/2020



June 20, 2024

CHUCK TERHUNE
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: EAST VACUUM (GSA) UNIT #006

Enclosed are the results of analyses for samples received by the laboratory on 06/14/24 16:02.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/14/2024 Sampling Date: 06/14/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: EAST VACUUM (GSA) UNIT #006 Sampling Condition: Cool & Intact
Project Number: nGRL0916233108 Sample Received By: Alyssa Parras

Project Location: LEA COUNTY

Sample ID: BH 1 (0-0.5') (H243478-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.79	89.3	2.00	8.29	
Toluene*	<0.050	0.050	06/18/2024	ND	1.81	90.6	2.00	6.24	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.73	86.4	2.00	5.70	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.38	89.7	6.00	5.69	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/18/2024	ND	480	120	400	10.5	
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	06/18/2024	ND	196	98.2	200	1.97	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	205	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.4	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/14/2024 Sampling Date: 06/14/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: EAST VACUUM (GSA) UNIT #006 Sampling Condition: Cool & Intact
Project Number: nGRL0916233108 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: LEA COUNTY

Sample ID: BH 1 (2-2.5') (H243478-02)

BTEX 8021B

DILX OUZID	11197	ng .	Andryzo	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.79	89.3	2.00	8.29	
Toluene*	<0.050	0.050	06/18/2024	ND	1.81	90.6	2.00	6.24	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.73	86.4	2.00	5.70	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.38	89.7	6.00	5.69	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7 % 71.5-13		4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/18/2024	ND	480	120	400	10.5	
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	06/18/2024	ND	196	98.2	200	1.97	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	205	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET, STE 100

Analyzed By: JH

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/14/2024 Sampling Date: 06/14/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: EAST VACUUM (GSA) UNIT #006 Sampling Condition: Cool & Intact Project Number: nGRL0916233108 Sample Received By: Alyssa Parras

Project Location: LEA COUNTY

Sample ID: BH 2 (0-0.5') (H243478-03)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.79	89.3	2.00	8.29	
Toluene*	<0.050	0.050	06/18/2024	ND	1.81	90.6	2.00	6.24	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.73	86.4	2.00	5.70	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.38	89.7	6.00	5.69	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2 % 71.5-13		4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/18/2024	ND	480	120	400	10.5	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	196	98.2	200	1.97	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	205	103	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.2	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 06/14/2024 Sampling Date: 06/14/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: EAST VACUUM (GSA) UNIT #006 Sampling Condition: Cool & Intact
Project Number: nGRL0916233108 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: LEA COUNTY

Sample ID: BH 2 (2-2.5') (H243478-04)

BTEX 8021B

DIEX GOZID	11197	mg/ kg		Andryzed by: 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.79	89.3	2.00	8.29	
Toluene*	<0.050	0.050	06/18/2024	ND	1.81	90.6	2.00	6.24	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.73	86.4	2.00	5.70	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.38	89.7	6.00	5.69	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5 % 71.5-13		4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	480	120	400	10.5	
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	06/18/2024	ND	175	87.3	200	1.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	171	85.6	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	85.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.2	% 49.1-14	8						

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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: 06/14/2024 Sampling Date: 06/14/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: EAST VACUUM (GSA) UNIT #006 Sampling Condition: Cool & Intact
Project Number: nGRL0916233108 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: LEA COUNTY

Sample ID: BH 3 (0-0.5') (H243478-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.79	89.3	2.00	8.29	
Toluene*	<0.050	0.050	06/18/2024	ND	1.81	90.6	2.00	6.24	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.73	86.4	2.00	5.70	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.38	89.7	6.00	5.69	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	480	120	400	10.5	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	175	87.3	200	1.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	171	85.6	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	78.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.8	% 49.1-14	8						

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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: 06/14/2024 Sampling Date: 06/14/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: EAST VACUUM (GSA) UNIT #006 Sampling Condition: Cool & Intact Project Number: nGRL0916233108 Sample Received By: Alyssa Parras

Project Location: LEA COUNTY

Sample ID: BH 3 (2-2.5') (H243478-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.79	89.3	2.00	8.29	
Toluene*	<0.050	0.050	06/18/2024	ND	1.81	90.6	2.00	6.24	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.73	86.4	2.00	5.70	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.38	89.7	6.00	5.69	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/18/2024	ND	480	120	400	10.5	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	175	87.3	200	1.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	171	85.6	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	66.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.3	% 49.1-14	8						

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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: 06/14/2024 Sampling Date: 06/14/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: EAST VACUUM (GSA) UNIT #006 Sampling Condition: Cool & Intact
Project Number: nGRL0916233108 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: LEA COUNTY

Sample ID: BH 4 (0-0.5') (H243478-07)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.79	89.3	2.00	8.29	
Toluene*	<0.050	0.050	06/18/2024	ND	1.81	90.6	2.00	6.24	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.73	86.4	2.00	5.70	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.38	89.7	6.00	5.69	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	480	120	400	10.5	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	175	87.3	200	1.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	171	85.6	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	73.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.2	% 49.1-14	8						

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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: 06/14/2024 Sampling Date: 06/14/2024

Reported: 06/20/2024 Sampling Type: Soil

Project Name: EAST VACUUM (GSA) UNIT #006 Sampling Condition: Cool & Intact
Project Number: nGRL0916233108 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: LEA COUNTY

Sample ID: BH 4 (2-2.5') (H243478-08)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.79	89.3	2.00	8.29	
Toluene*	<0.050	0.050	06/18/2024	ND	1.81	90.6	2.00	6.24	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.73	86.4	2.00	5.70	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.38	89.7	6.00	5.69	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/18/2024	ND	480	120	400	10.5	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	175	87.3	200	1.63	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	171	85.6	200	1.88	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	73.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.8	% 49.1-14	8						

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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.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

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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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: That						,	* ***	
Project Manager: Chuck Technic		P.O.#:			A	ANALYSIS REQUEST	UEST	1
Address:	0	Company: 72 A	1		_	,		
City: Midlum State: 7x Zip:		Attn:		ره	E		1	
Phone #: Fax #:		Address:)R				
Project #: 16/2201123310 & Project Owner		City:		/ (- × i
Project Name: East vacuum (asa)	conit thous	State: Zip:		0	_		• •	÷
a County		#		0				
Sampler Name: Wilberto Sunches				5	· ·			_
00000	L	Fax #:		4	_	Ţ	_	_
		PRESERV. SAM	SAMPLING	(SR				.1
Lab I.D. Sample I.D.		BASE:	TEX	elorida				
	# CON	ACID/E ICE / C OTHER		را				
2 841 (0-0.5°)	->-	W. 1.9 x	4 4	+				
BAIL O-								
4 842(2-2.51)								
5 1345 (0-0.5)								
7 2114/0-4.50							*	
5-27								
				-				
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affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated rea	ed upon any of the above stated re	asons or otherwise.					
	Received By:		Verbal Result: □ All Results are emaile	Yes □ No	Add'l	Add'l Phone #:		
Relinquished By:	Received By:		REMARKS:		•			
	Sample Condition Cool Intact	BY:	Turnaround Time:	Standard	Z	Bacteria (only) S	Bacteria (only) Sample Condition	
Sampler - UPS - Bus - Other: Corrected Temp. °C	□ Yes □ Yes	A (IIIII)	Thermometer ID #140	Kusn		Cool Intact ☐ Yes ☐ Yes	Observed Temp. °C	٠.

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 463629

QUESTIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	463629
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites				
Incident ID (n#)	nGRL0916233108			
Incident Name	NGRL0916233108 EAST VACUUM (GSA) UNIT #006 @ 30-025-26390			
Incident Type	Release Other			
Incident Status	Remediation Plan Received			
Incident Well	[30-025-26390] EAST VACUUM (GSA) UNIT #006			

Location of Release Source	
Please answer all the questions in this group.	
Site Name	EAST VACUUM (GSA) UNIT #006
Date Release Discovered	05/28/2009
Surface Owner	State

Incident Details				
Please answer all the questions in this group.				
Incident Type	Release Other			
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				
faterial(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.				
Crude Oil Released (bbls) Details	Not answered.			
Produced Water Released (bbls) Details	Not answered.			
Is the concentration of chloride in the produced water >10,000 mg/l	No			
Condensate Released (bbls) Details	Not answered.			
Natural Gas Vented (Mcf) Details	Not answered.			
Natural Gas Flared (Mcf) Details	Not answered.			
Other Released Details	Cause: Equipment Failure Injection Well Drilling Mud/Fluid Released: 42 BBL Recovered: 16 BBL Lost: 26 BBL.			
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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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 463629

QUESTIONS	(continued)

QUESTI	ONS (continued)
Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	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 s	afety 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.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetratech.com Date: 07/23/2024

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Phone: (505) 629-6116

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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, Page 3

Action 463629

QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	463629
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

al and beyond). This information must be provided to the appropriate district office no later than 90 days after the
Between 51 and 75 (ft.)
NM OSE iWaters Database Search
No
nd the following surface areas:
Between ½ and 1 (mi.)
Between 1000 (ft.) and ½ (mi.)
Between 1 and 5 (mi.)
Between 1 and 5 (mi.)
Between 500 and 1000 (ft.)
Greater than 5 (mi.)
Between 1000 (ft.) and ½ (mi.)
Greater than 5 (mi.)
Greater than 5 (mi.)
Low
Greater than 5 (mi.)
Yes

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination as	ssociated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in millig	grams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	48	
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	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	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	17753	
What is the estimated volume (in cubic yards) that will be remediated	2630	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Released to Imaging: 5/21/2025 4:38:19 PM

General Information Phone: (505) 629-6116

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QUESTIONS, Page 4

Action 463629

QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	463629
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)		
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.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site 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.	

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 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.

Name: Chuck Terhune Title: Program Manager I hereby agree and sign off to the above statement Email: chuck.terhune@tetratech.com Date: 05/15/2025

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.

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 463629

QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	463629
	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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QUESTIONS, Page 6

Action 463629

QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	463629
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	353433
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/14/2024
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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CONDITIONS

Action 463629

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	463629
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation workplan approved.	5/21/2025
amaxwell	Variance request to use delineation samples as closure confirmation samples is approved. However, if samples exceed confirmation closure criteria set forth in Table I, remediation activities will fall under 19.15.29 NMAC.	5/21/2025
amaxwell	Submit a report via the OCD permitting portal by August 19, 2025.	5/21/2025